

## **Appendix C      Biological Resources Data**

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OCT 08 2007

October 5, 2007

Ms. Rosemary Medel  
Associate Planner  
City of Huntington Beach  
2000 Main St.  
Huntington Beach, CA 92648

Subject: Le Bard Park Phase II Expansion Project – Status Report

Dear Ms. Medel:

Pursuant to our recent discussions, this correspondence 1) provides an overview of the biological field work that has been accomplished on the site of the subject project by Chambers Group to date, 2) summarizes the findings of those efforts, and, 3) based on the foregoing presents a variety of alternative approaches as to how the City might proceed with the continued environmental review and processing of the proposed project.

***Overview of the Proposed Project/Background***

The City proposes to expand Le Bard Park onto approximately two easterly adjacent acres of property that the City leases from the Southern California Edison (SCE) Company. Based on community input, set SCE development constraints within their right-of-way, and input from City staff, a Master Plan depicting the nature of the improvements comprising the park expansion project was prepared. Improvements on the two-acre addition will comprise primarily open turf areas, trees and other vegetation. The Master Plan also identifies the addition of two new half-court basketball courts within the existing park.

During August 2006, Chambers Group was retained by the City of Huntington Beach to conduct and document an environmental review of the proposed project pursuant to the provisions of the California Environmental Quality Act (CEQA) and attendant State CEQA Guidelines, both as amended. At the time, it was unclear what form of CEQA compliance documentation would be most appropriate for the proposed project - either an Initial Study/Environmental Assessment that would serve as the basis for a Mitigated Negative Declaration (IS/MND), or an environmental impact report (EIR). Eight months earlier, a biological reconnaissance report prepared for the site by another firm indicated the potential onsite occurrence of significant biological resources and made recommendations for further study. Specifically, the document conveyed the need to conduct a formal jurisdictional delineation, vernal pool assessment, and surveys appropriate to determine the presence or absence of two special status plant and one protected animal species, the southern tarplant, Coulter's goldfields, and San Diego/Riverside fairy shrimp, respectively.

Because the potential occurrence of one or more significant biological resources could substantially influence determining which type of CEQA document would ultimately contain the proposed project's environmental review, it was mutually determined (between the City and Chambers Group) that undertaking the project's environmental review would be held in abeyance until such time when the significance/insignificance of the site's biological resources had been ascertained. In that the anticipated survey work would essentially have been concluded just after the end of the 2006/2007 wet season, initiation of the environmental review for the proposed project in earnest would have occurred during late April/early May 2007.

The following is an overview of Chambers' efforts specific to identifying what, if any, significant biological resources the project site might contain. The overview is then followed by a summary of the key findings yielded to date.

#### ***Overview of Biological Field Work Conducted to Date***

- **August 2006** – Chambers completes an informal biological reconnaissance of the project site and vicinity to provide a proper context for findings of the following technical report: *Biological Reconnaissance Survey Report for the Le bard Park Extension Project, City of Huntington Beach, Orange County, California*, December 2005, by ECORP Consulting.
- **September 2006** – Chambers completes a dry-season vernal pool Branchiopod (fairy shrimp) survey and during November 2006, per protocol, submits 90-Day Survey Report to the US Fish & Wildlife Service. Chambers submits collected samples to an appropriately permitted facility for analysis.
- **September 2006** – Chambers initiates wet season fairy shrimp surveys and submits Notice of Intent to do so to the US Fish & Wildlife Service. Wet season typically extends from October through mid-April.
- **October 2006** – Sampling results documented in a letter report titled *Dry Sampling for the Presence of Fairy Shrimp Cysts from Two Southern California Sites*, October 8, 2006, by Ecological Restoration Service (Chuck Black).
- **November 2006** – Chambers completed a vernal pool assessment and jurisdictional wetlands delineation and submitted its findings to the City in a letter report dated December 5, 2006.
- **April 2007** – Chambers completes wet season fair shrimp survey. Between October 2006 and April 2007, eleven site visits occurred during occasions of measurable precipitation.
- **April 16-20, 2007** – The US Fish & Wildlife Service informs Chambers that the agency has determined that 2006/2007 wet season was invalid for fairy shrimp surveys due to insufficient rainfall. Given this, the presence or absence of the San Diego/Riverside Fairy Shrimp (the Fairy Shrimp species that are protected) can not be definitively established per protocol until the end of the following (2007/2008) wet season.
- **May 2007** – Chambers submits 90-Day (Wet Season) Survey report to the US Fish & Wildlife Service.
- **September 2007** – Chambers submits Notice of Intent to conduct wet season fairy shrimp surveys to the US Fish & Wildlife Service.

#### ***Findings of Biological Field Work Conducted to Date***

- The project site is heavily disturbed, sparsely vegetated, and is dominated by bare ground with alkali soils that appear to primarily consist of fill. SCE power line maintenance activities and neighboring plant nursery operations clearly involve vehicular movements across the project site. There also exists evidence of recreational dirt bike use of the project site. In short, the project site is highly disturbed and lacks native vegetation or recognizable hydrology.

- All depressions at grade on the project site are artificial in origin, lack the characteristic clay pan soils of vernal pools, and do not appear to support any vernal endemic plant species or clay mesa plant species. As a result, the project site is absent any vernal pools.
- The site lacks hydrologic Ordinary High Water Mark (OHWM) characteristics such as shelving, sediment deposits, debris lines or other indicators of an OHWM, does not support hydro-phytic (wetland) vegetation, and consequently does not include wetlands as defined by the US Army Corps of Engineers (USACE). Because in the absence of wetlands, the limits of USACE jurisdiction extend to the OHWM, and because of the absence of an OHWM onsite, the project site is not subject to USACE jurisdiction.
- The project site is absent any identifiable bed, bank, and/or channel structures, riparian habitat, natural or artificial waters, as well as any fish or other riparian wildlife resources. As a result, the project site is not subject to California Department of Fish & Game jurisdiction.
- The dry season survey concluded that two of the three sample locations do not support a viable population of fairy shrimp. While the southernmost location did have a considerable number of sieved Ostracodes, all hydrated cysts from this location were successfully identified as Lindahl's fairy shrimp, a common species, and no other species of fairy shrimp were observed.
- The wet season survey revealed that two of the three sample locations became neither inundated nor held water for any period during measurable precipitation events. The third, the most southerly of the three held 3.8 cm of water for more than 72 hours on December 11, 2006 and again held water on February 23, 2007, but only 2.3 cm. No wildlife was present or observable in any of the sample locations. These results, when combined with the previous dry-season survey results and the failure of the site to support aquatic invertebrates, suggests that the project site is probably not suitable habitat for fairy shrimp.

***Projected Ultimate Findings Based on the Field Work Conducted to Date***

- The **May 2007** item identified above is a required submittal to the US Fish & Wildlife Service when undertaking protocol dry and wet season fairy shrimp surveys. Generally, the data provided are relatively straightforward and matter of fact. However, the closing remarks of this particular 90-Day Survey report included the author's professional opinion regarding the presence or absence of the species in question on the project site and represents what we project the ultimate findings of our field work will be at the end of the coming wet season. The subject report closes with:

*"Upon completing two consecutive surveys of both dry and wet seasons, Chambers Group, Inc. believes that the compacted right of way in question does not support aquatic or vernal pool species. Despite the low rainfall experienced during the 2006/2007 wet season, our survey should be considered sufficient to show that there is no fairy shrimp habitat on site. The fact that no vernal pool fauna were present after 72 hours of inundation of over 3 cm, suggests that this site does not have the abiotic factors necessary to support Branchiopods. That fact combined with the extremely low numbers of cysts found during dry season sampling, are strong reasons to believe that there is not true vernal pool habitat on site. Without adequate habitat it should be presumed that there is an absence of protected Branchiopods."*

### ***Discussion***

As indicated previously, initiation of the environmental review for the proposed project in earnest was scheduled to occur during late April/early May of this year. However, the previously mentioned USF&WS declaration that 2006/2007 "wet season" rainfall volumes were insufficient for fairy shrimp survey purposes has resulted in a requirement to repeat the wet season fairy shrimp surveys during the upcoming 2007/2008 wet season. As a consequence, commencement of the project's environmental review would now likely not occur until late April/early May, 2008 assuming adherence to the same contract performance milestone and predecessor event assumptions that were previously mutually agreed to. In that event, the City of Huntington Beach would not likely have the project's environmental review ready for adoption until August 2008.

In light of the foregoing, Chambers notes the following: 1) with the exception of not having definitively established the onsite presence/absence of the San Diego/Riverside fairy shrimp, all other completed field investigations provide an incontrovertible basis from which to find that the project site is devoid of any significant biological resources; 2) although all USF&WS fairy shrimp survey protocols have yet to be completed, based on the in depth knowledge of existing site conditions gained during numerous site visits over a span of several months, it is Chambers professional opinion that the likelihood of their presence is extremely low to non-existent and that nothing likely to transpire during the upcoming wet season survey will alter this probability; and, 3) given the above, it may be reasonable for the City to consider altering the currently planned sequence and timing of the work efforts yet to be undertaken to complete the project's environmental review. Including the option of continuing the current work program approach, alternative work program approaches the City may want to consider are described below.

#### *Work Program Approach Alternative A*

Under this alternative, Chambers would continue its efforts as currently planned. Wet season fairy shrimp surveys would be undertaken and completed during April 2008. Upon completion of the wet season fair shrimp surveys Chambers would initiate the proposed project's environmental review. The current assumption is that the CEQA compliance document containing the environmental review would be an expanded Initial Study in support of a Mitigated Negative Declaration, an IS/MND. As mentioned above, under this alternative, the IS/MND would likely be available for adoption during the late July/early August 2008 timeframe. In addition to the foregoing, we are also recommending that the City make a request of the USF&WS for a site visit. There is a possibility that a meeting in the field between the City, the local USF&WS "turf" biologist and appropriate Chambers personnel will lead to their understanding just how marginal, isolated and insignificant the three onsite survey locations for fair shrimp actually are. While not expected, in the best case, the site visit could result in their concluding that no further wet season survey activities would be required and a willingness to go on record making an "absence" finding for the San Diego/Riverside fairy shrimp on the project site. This would have obvious positive ramifications for the overall time frame in which the project's environmental review can be completed. At worst, the site visit should serve to minimize any deleterious USF&WS comments on the Draft IS/MND during its circulation period next year.

#### *Work Program Approach Alternative B*

Under this alternative, Chambers would undertake the wet season fairy shrimp surveys as currently planned and complete them during April 2008. However, initiation of the environmental review for the proposed project would occur immediately. As under Alternative A, it is assumed that the CEQA compliance document containing the environmental review would also be an IS/MND. Under this alternative, the IS/MND would likely be available for adoption during the late January/early February 2008 timeframe. However, since the wet season fairy shrimp surveys will not yet be completed, the IS/MND, while offering the results of surveys completed to date and a

Ms. Rosemary Medel  
October 5, 2007  
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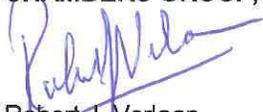
professional opinion as to fairy shrimp presence/absence based thereon, will nevertheless contain mitigation requiring their completion. As with Alternative A, we also recommend that the City make a request of the USF&WS for a site visit under this Alternative.

Work Program Approach Alternative C

As under each of the preceding alternatives, Chambers would undertake the wet season fairy shrimp surveys as currently planned and complete them during April 2008, and like under Alternative B, initiation of the environmental review for the proposed project would occur immediately. As under each alternative, it is assumed that the CEQA compliance document containing the environmental review would also be an IS/MND. However, unlike under Alternative B, circulation of the Draft IS/MND would not occur until immediately after the wet season fairy shrimp surveys have been completed and the results known. Under this alternative, the IS/MND would likely be available for adoption sometime in June 2008. As with Alternatives A and B, we also recommend that the City make a request of the USF&WS for a site visit under this Alternative.

Based on what we know at present, Chambers recommends that the City redirect our efforts to continue under either Alternative B or C above. Compared to our current work program approach, both accelerate the time at which the environmental review would be available for adoption and do so with nominal risk. Chambers appreciates its continued association with the City on this project and looks forward to further discussing the above items. Should you have any questions or comments regarding any aspect of this correspondence, please do not hesitate to contact me.

Sincerely,  
**CHAMBERS GROUP, INC.**



Robert J. Verlaan  
Principal Environmental Planner/  
Senior Project Manager

June 15, 2010

USFWS Carlsbad Office  
Mr. Ken Corey  
Endangered Species Permit Coordinator  
6010 Hidden Valley Road  
Carlsbad, CA 92011

SUBJECT: 90-Day Report for Wet Season Branchiopod Surveys During the 2009/2010 season at Le Bard Park, Huntington Beach, CA (CGI 8478)

In accordance with the Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods (Guidelines), a 90-Day Report must be provided upon completion of each survey. This report is provided to satisfy the reporting requirements outlined in Section VII of the Guidelines. This report is presented in outline format for your convenience.

## VII. 90-Day Report

### a. U.S. Fish & Wildlife Service

#### a.1. Site Location:

The site is located in Le Bard Park in the City of Huntington Beach (Enclosure 1). Coordinates for the site are NAD 83/WGS84 UTM 11 412000E 3725388N or the NW ¼ of the SE ¼ of Section 8 in Township 6S and Range 10W on the USGS Newport Beach 7.5 minute quadrangle map.

#### a.2. Photos:

Photographs of the main pool surveyed for fairy shrimp habitat are enclosed. The photos depict the greatest inundation encountered during this wet season. (Enclosure 2).

#### a.3. Abundance:

The survey area was surveyed for ponding and presence of fairy shrimp following each measurable precipitation event of the 2009/2010 wet season. Site visits were made per Survey Guidelines. When pools were inundated with standing water, they were sampled once every two weeks until no longer inundated. During the six site visits made, no fairy shrimp was present or observable in any of the pools.

Based on the results of this wet season survey, previous dry-season and wet-season surveys, and the vehicular, foot, and pet traffic through the site, the basin is probably not suitable habitat for fairy shrimp.

a.4. Voucher Specimens:

No Branchiopods were observed or collected. No fairy shrimp were observed. Unknown invertebrate organisms were observed during two surveys.

a.5. Community Description:

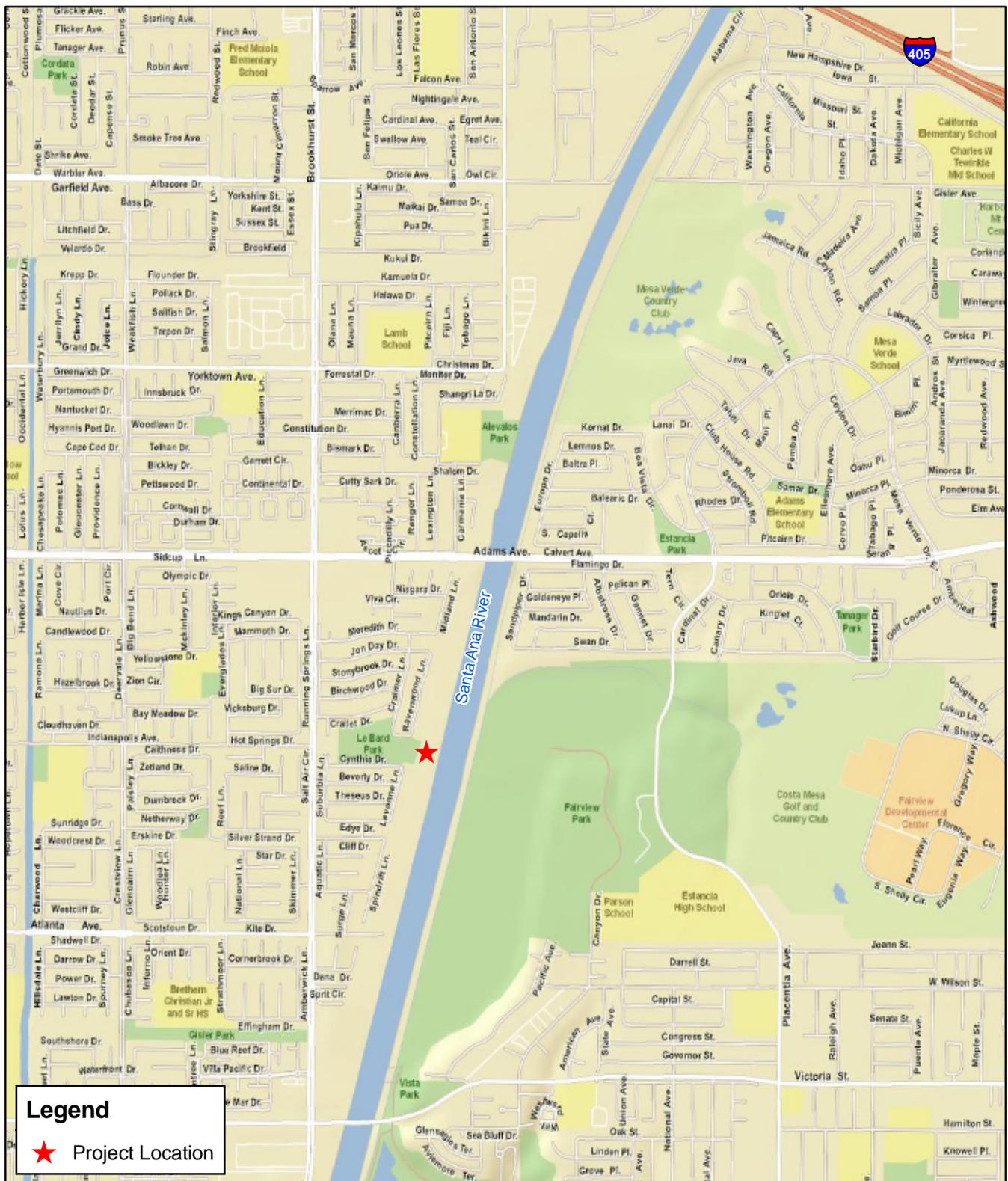
In general, this is not a true clay mesa vernal pool complex, but rather a compacted bare lot with some occasional ponding. The habitat quality is low with no native plants occurring near the site. There is moderate physical disturbance evidenced by vehicular tracks and heavy foot and pet traffic. Additionally, adjacent irrigated landscaping influences the moisture regime. The California Natural Diversity Database (CNDDDB) vegetation classification system does not recognize nearly-unvegetated, ruderal sites. No CNDDDB or Holland mapping unit describes this ruderal vegetation community. Currently the site is hydrologically isolated on the east by a large berm that parallels the Santa Ana River. LeBard Park to the west and housing developments to the north and south also isolate the site. There does appear to be some urban runoff from the park contributing to the immediate watershed of these pools. Specifically, there are three pop-up impact sprinklers located not more than 20 feet away in the city park to the west of the pools. Only an unknown invertebrate organisms were observed during two surveys. The only plant species in or adjacent to the pools is Bermuda grass (*Cynodon* spp).

a.6. Abiotic Data:

Pool No.	Date	Water	Air	Depth	Length	Width	Area Estimate Max	Depth Estimate Max	Habitat Condition
1	12/15/09	57 F	62 F	15.24 cm	25 m	8 m	300 m <sup>2</sup>	17.78 cm	Tire Tracks/Foot & Pet Traffic - Heavy
3	12/15/09	60 F	63 F	5.08 cm	5 m	2 m	15 m <sup>2</sup>	7.62 cm	Tire Tracks/Foot & Pet Traffic - Heavy
1	1/23/10	60 F	67 F	20 cm	25 m	30 m	750 m <sup>2</sup>	20 cm	Bike Tire Tracks/Garbage/

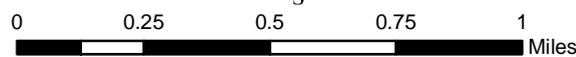
									Kids Foot Traffic - Moderate
2	1/23/10	64 F	67 F	7 cm	10 m	4 m	*	*	Disturbe d - Tire Tracks/ Garage/ Foot Traffic - Moderate
3	1/23/10	65 F	67 F	7 cm	8 m	4 m	32 m <sup>2</sup>	7 cm	Disturbe d - Tire Tracks/ Garbage/ Foot Traffic - Moderate
1	2/7/10	61 F	62 F	30.48 cm	70 m	40 m	2800 m <sup>2</sup>	30.48 cm	Tire Tracks/ evidence of dogs & bikes
2	2/7/10	63 F	64 F	9.525 cm	8 m	4 m	32 m <sup>2</sup>	9.525 cm	Tire Tracks/ Foot traffic/ Heavy vehicle tracks
3	2/7/10	64 F	64 F	10.16 cm	6 m	3 m	18 m <sup>2</sup>	10.16 cm	Disturbe d - Tire Tracks/ Heavy foot traffic
1	2/21/10	*	*	20 cm	50 m	4 m	2800 m <sup>2</sup>	30.48 cm	Disturbe d - Garbage/ Foot Traffic, Bike Traffic, Pet Traffic - Heavy
1	3/8/10	74 F	63 F	20 cm	50 m	4 m	2800 m <sup>2</sup>	30.48 m	Tire Tracks/ Garbage/ Foot Traffic & Pet Traffic - Heavy
2	3/8/10	79 F	63 F	7 cm	5 m	2.5 m	32 m <sup>2</sup>	9.525 cm	Tire Tracks - Heavy
1	3/21/10	78 F	71 F	5 cm	2 m	3 m	2800 m <sup>2</sup>	30.48 m	Disturbe d- Tire Tracks/ Pets, People,





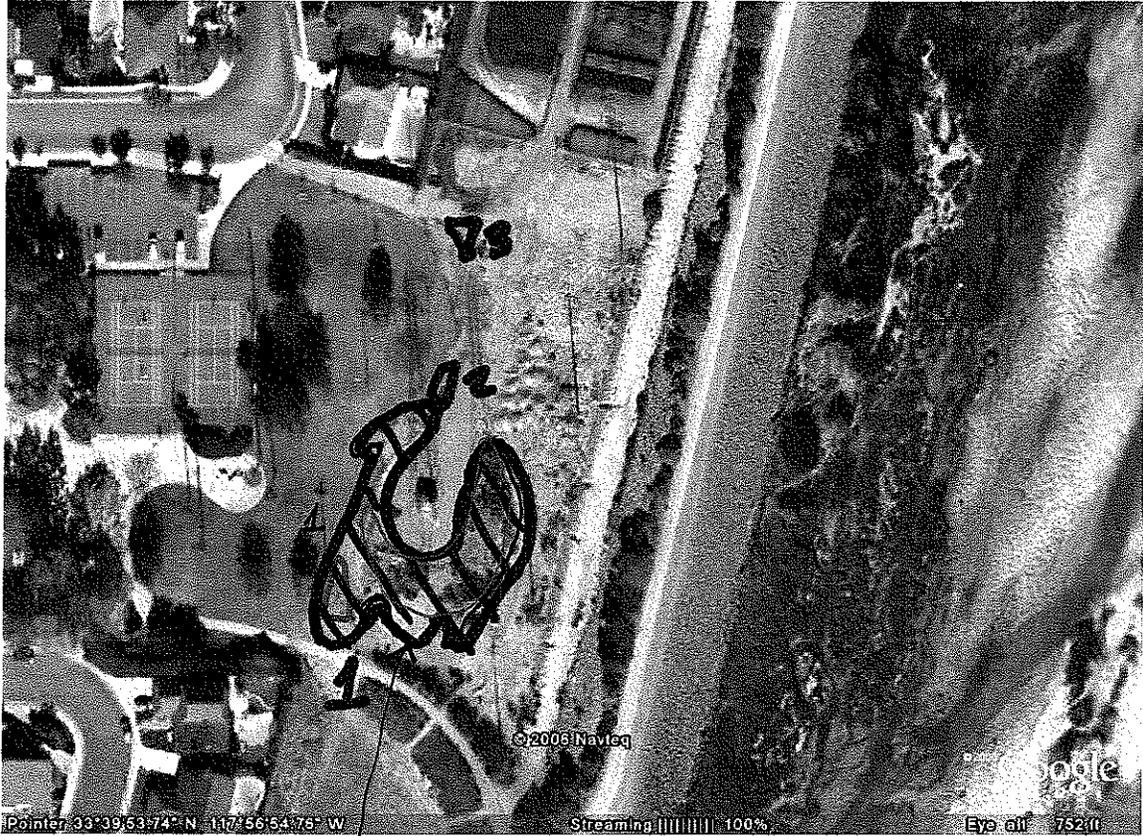
**Legend**

★ Project Location



**Figure 1**  
Project Vicinity Map

Figure 2  
LaBard Park Fairy Shrimp Survey Area Locations



Estimated size & shape of Pool # 1  
AT Capacity -

## SITE PHOTOS



South Pool Wet Season



South Pool Dry Season



12/15/09 LA BARD PARK

Pg 2

Pool 1

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) NONE

Notostracans: (note reproductive status) NONE

(Optional) Species Observations:

Cladocerans:    yes     no  
 Conchostracans:    yes    no  
 Copepods:    yes    no  
 Ostracods    yes    no  
 Fish    yes    no  
 Frogs    yes    no  
 Salamanders    yes    no  
 Waterfowl    yes     no  
 Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
 Anisoptera:    yes     no  
 Zygoptera:    yes    no  
 Hydrophilidae:    yes    no  
 Dytiscidae:    yes    no  
 Corixidae:    yes    no  
 Notonectidae:    yes    no  
 Belostomatidae:    yes     no  
 Other (specify) \_\_\_\_\_

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
NONE			

X NOTE: Pool #2 Too Shallow To Sample.

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no X yes

Required color slides and/or photographs for the project site are included: \_\_\_ no X yes 2032  
2033

Date: 12/15/09 Time: 1045 County: ORANGE Quad: \_\_\_\_\_

Collector(s): ERIK LACOSTE Permit #: TE-027736-4

Site/Project Name: LABARD PARK Pool #: 3 - Northern Most Pool

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long. \_\_\_\_\_

Temperature: Water: 60 °F Air: 63 °F

Pool Depth: Surface Area:

at time of sampling: 2" cm at time of sampling: 5 m x 2 m

estimated maximum: 3" cm estimated maximum: 6 m x 2.5 m

Habitat Condition: (circle where appropriate)

- |                        |                               |         |  |
|------------------------|-------------------------------|---------|--|
| - undisturbed          | disturbed: <u>tire tracks</u> | garbage | discing/plowing  |
| - ungrazed             | grazed: <u>cattle</u>         | horses  | sheep  |
|                        |                               | light   | moderate   |
| - land use of habitat: |                               |         | <u>heavy</u> <u>Foot Traffic</u><br><u>Pet Traffic</u> |

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity: \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes: NO FS. or OTHER SPECIES - NO VEGETATION BESIDES BERMUDE GRASS FROM THE ADJACENT PARK LANDSCAPING - VERY SMALL & SHALLOW - MAY DRY PRIOR TO NEXT SURVEY.

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

12/15/09

LABARD PARK

Page 2

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Pool 3 - Northern Pool

Anostracans: (note reproductive status) NONE

Notostracans: (note reproductive status) NONE

(Optional) Species Observations:

Cladocerans:    yes  no  
 Conchostracans: yes  no  
 Copepods:       yes  no  
 Ostracods       yes  no  
 Fish             yes  no  
 Frogs            yes  no  
 Salamanders    yes  no  
 Waterfowl       yes  no  
 Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
 Anisoptera:            yes  no  
 Zygoptera:             yes  no  
 Hydrophilidae:        yes  no  
 Dytiscidae:            yes  no  
 Corixidae:             yes  no  
 Notonectidae:         yes  no  
 Belostomatidae:      yes  no  
 Other (specify) \_\_\_\_\_

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
NONE			

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes ~~10~~ 2046

Date: 1/23/10 Time: 1115 County: ORANGE Quad: \_\_\_\_\_

Collector(s): ERIK LA COSTE Permit #: TE 027736-4

Site/Project Name: LA BARRS PARK Pool #: Southern most Pool #1

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long. \_\_\_\_\_

Temperature: Water: 60 °F Air: 67 °F

Pool Depth: Surface Area:

at time of sampling: 20 cm at time of sampling: ~~25~~ 25 m x ~~30~~ 30 m

estimated maximum: 20 cm estimated maximum: 25 m x 30 m

*Pools are maxed now & all seem to run into each other*

Habitat Condition: (circle where appropriate)

- |                        |  |                 |                                |
|------------------------|--|-----------------|--------------------------------|
| - undisturbed          | disturbed: <u>Bikes</u><br><u>tire tracks</u> <u>garbage</u> | discing/plowing |                                |
| - ungrazed             | grazed: cattle horses light                                  | sheep           | other <u>Kids Foot traffic</u> |
| - land use of habitat: |  | <u>moderate</u> | heavy                          |

*Public PARK / Transmission Corridor*

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity : \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes: *This seems to fill only in Rain event & may just be a mud puddle.*

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

LIA BARD.  
Pool 1  
1/23/10

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *None*

Notostracans: (note reproductive status) *None*

(Optional) Species Observations:

Cladocerans:	yes	<input checked="" type="radio"/> no	Insects: (adult or larvae)		
Conchostracans:	yes	<input type="radio"/> no	Anisoptera:	yes	<input checked="" type="radio"/> no
Copepods:	yes	<input type="radio"/> no	Zygoptera:	yes	<input type="radio"/> no
Ostracods	yes	<input type="radio"/> no	Hydrophilidae:	yes	<input type="radio"/> no
Fish	yes	<input type="radio"/> no	Dytiscidae:	yes	<input type="radio"/> no
Frogs	yes	<input type="radio"/> no	Corixidae:	yes	<input type="radio"/> no
Salamanders	yes	<input type="radio"/> no	Notonectidae:	yes	<input type="radio"/> no
Waterfowl	yes	<input type="radio"/> no	Belostomatidae:	yes	<input type="radio"/> no
Other (specify) _____			Other (specify) _____		

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>None</i>			

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes **2047**

Date: 1/23/10 Time: 1130 County: DRABE Quad: \_\_\_\_\_

Collector(s): ERIK LACoste Permit #: TE027736-4

Site/Project Name: LA BARD PARK Pool #: 2

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long.

Temperature: Water: 64 °C Air: 67 °C

Pool Depth: Surface Area:

at time of sampling: 7 cm at time of sampling: 10 m x 4 m

estimated maximum: \_\_\_\_\_ cm estimated maximum: \_\_\_\_\_ m x \_\_\_\_\_ m

Habitat Condition: (circle where appropriate)

- |               |  |  |  |   |                           |
|---------------|--|--|--|---|---------------------------|
| - undisturbed | <input checked="" type="checkbox"/> <u>disturbed</u> | <input checked="" type="checkbox"/> <u>tire tracks</u> | <input checked="" type="checkbox"/> <u>garbage</u> | discing/plowing                                     |                           |
| - ungrazed    | grazed:  | cattle   | horses   | sheep   | other <u>Foot traffic</u> |
|               |  |  | light  | <input checked="" type="checkbox"/> <u>moderate</u> | heavy                     |

- land use of habitat:

Public Park / transmission corridor

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity: \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes: seems that this pool is just a mud puddle that fills in rain event

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

La Bazo  
Pool 2  
1/23/10

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *None*

Notostracans: (note reproductive status) *None*

(Optional) Species Observations:

Cladocerans:	yes	<u>no</u>
Conchostracans:	yes	<u>no</u>
Copepods:	yes	<u>no</u>
Ostracods	yes	<u>no</u>
Fish	yes	<u>no</u>
Frogs	yes	<u>no</u>
Salamanders	yes	<u>no</u>
Waterfowl	yes	<u>no</u>
Other (specify) _____		

Insects: (adult or larvae)		
Anisoptera:	yes	<u>no</u>
Zygoptera:	yes	<u>no</u>
Hydrophilidae:	yes	<u>no</u>
Dytiscidae:	yes	<u>no</u>
Corixidae:	yes	<u>no</u>
Notonectidae:	yes	<u>no</u>
Belostomatidae:	yes	<u>no</u>
Other (specify) _____		

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>None</i>			

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes **2048**

Date: 1/23/60 Time: 11:40 County: ORANGE Quad: \_\_\_\_\_

Collector(s): ERIK LACOSTE Permit #: TE 027736-4

Site/Project Name: LA BARR PARK Pool #: 3

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long. \_\_\_\_\_

Temperature: Water: 65 °F Air: 67 °F

Pool Depth: Surface Area:

at time of sampling: 7 cm at time of sampling: 8 m x 4 m

estimated maximum: 7 cm estimated maximum: 8 m x 4 m

Habitat Condition: (circle where appropriate)

- |               |                  |                    |                |                 |                           |
|---------------|------------------|--------------------|----------------|-----------------|---------------------------|
| - undisturbed | <u>disturbed</u> | <u>tire tracks</u> | <u>garbage</u> | discing/plowing |                           |
| - ungrazed    | grazed:          | cattle             | horses         | sheep           | other <u>Foot Traffic</u> |
|               |                  |                    | light          | <u>moderate</u> | heavy                     |

- land use of habitat:  
Public Park / Transmission Corridor

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity: \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes:

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

LABARD  
1/23/10  
Pod 3

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *none*

Notostracans: (note reproductive status) *none*

(Optional) Species Observations:

Cladocerans:    yes  no   
Conchostracans: yes  no   
Copepods:       yes  no   
Ostracods       yes  no   
Fish             yes  no   
Frogs            yes  no   
Salamanders    yes  no   
Waterfowl       yes  no   
Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
Anisoptera:            yes  no   
Zygoptera:             yes  no   
Hydrophilidae:        yes  no   
Dytiscidae:            yes  no   
Corixidae:             yes  no   
Notonectidae:         yes  no   
Belostomatidae:      yes  no   
Other (specify) \_\_\_\_\_

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>none</i>			

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes

Date: 2/7/10 Time: 1030 County: ORANGE Quad: \_\_\_\_\_

Collector(s): ERIK LACOSTE Permit #: TE 027736-4

Site/Project Name: LA BARD PARK Pool #: 1

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long.

Temperature: Water: 61 F of Air: 62 of F

Pool Depth: Surface Area:

at time of sampling: 12" at time of sampling: 70 m x 40 m

estimated maximum: 12" estimated maximum: 70 m x 40 m

Habitat Condition: (circle where appropriate)

- |               |                               |         |                 |                           |
|---------------|-------------------------------|---------|-----------------|---------------------------|
| - undisturbed | disturbed: <u>tire tracks</u> | garbage | discing/plowing |                           |
| - ungrazed    | grazed: <u>cattle</u>         | horses  | sheep           | other <u>toes, bikes,</u> |
|               |                               | light   | moderate        | heavy                     |

- land use of habitat:

Public PARK / transmission Line Corridor

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity: \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes: Nothing Present -

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

Pool 1  
4/2/07/10 La Boro Park

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) None

Notostracans: (note reproductive status) None

(Optional) Species Observations:

Cladocerans:	yes	no
Conchostracans:	yes	no
Copepods:	yes	no
Ostracods	yes	no
Fish	yes	no
Frogs	yes	no
Salamanders	yes	no
Waterfowl	yes	no
Other (specify) _____		

Insects: (adult or larvae)		
Anisoptera:	yes	no
Zygoptera:	yes	no
Hydrophilidae:	yes	no
Dytiscidae:	yes	no
Corixidae:	yes	no
Notonectidae:	yes	no
Belostomatidae:	yes	no
Other (specify) _____		

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

# Individuals

Accession/Catalog #

Pool #

None.

Nothing Present!

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes

Date: 2/7/10 Time: 1050 County: Orange Quad: \_\_\_\_\_

Collector(s): ERIK LaCoste Permit #: TE 027736-4

Site/Project Name: LaSara Park Pool #: 2

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long.

Temperature: Water: 63 oC Air: 64 oC

Pool Depth: Surface Area:

at time of sampling: 3.75<sup>11</sup> m at time of sampling: 8 m x 4 m

estimated maximum: 3.75<sup>11</sup> cm estimated maximum: 8 m x 4 m

Habitat Condition: (circle where appropriate)

- |                        |   |         |  |
|------------------------|---|---------|--|
| - undisturbed          | disturbed: <u>fire tracks</u>                   | garbage | discing/plowing  |
| - ungrazed             | grazed: <u>cattle</u>                           | horses  | sheep  |
|                        |   | light   | moderate   |
| - land use of habitat: | <u>Public Park / Transmission Line Corridor</u> |         | <u>other foot traffic</u><br><u>heavy</u> <u>heavy vehicle</u><br><u>tracks.</u> |

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH<sub>4</sub>: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity: \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes: Algae Growth

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

La Brea Park  
8/7/10  
Page 2 Pool 2

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *None*

Notostracans: (note reproductive status) *None*

(Optional) Species Observations:

Cladocerans:      yes  no  
Conchostracans:   yes  no  
Copepods:          yes  no  
Ostracods          yes  no  
Fish                yes  no  
Frogs               yes  no  
Salamanders        yes  no  
Waterfowl          yes  no  
Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
Anisoptera:                    yes  no  
Zygoptera:                    yes  no  
Hydrophilidae:                yes  no  
Dytiscidae:                    yes  no  
Corixidae:                    yes  no  
Notonectidae:                 yes  no  
Belostomatidae:               yes  no  
Other (specify) \_\_\_\_\_

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>None.</i>			

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes

Date: 2/17/10 Time: 1100 County: Orange City Quad: -

Collector(s): ERIK LACORTE Permit #: TD027736-4

Site/Project Name: LABARA POND Pool #: 3

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long.

Temperature: Water: 64 oC Air: 64 oC

Pool Depth: Surface Area:

at time of sampling: 4" cm at time of sampling: 6 m x 3 m

estimated maximum: 4" cm estimated maximum: 6 m x 3 m

Habitat Condition: (circle where appropriate)

- |                        |  |  |         |                 |  |
|------------------------|--|--|---------|-----------------|--|
| - undisturbed          | <input checked="" type="checkbox"/> <u>disturbed</u> | <input checked="" type="checkbox"/> <u>tire tracks</u> | garbage | discing/plowing |  |
| - ungrazed             | grazed:  | cattle   | horses  | sheep           | other <u>foot traffic</u>                        |
|                        |  |  | light   | moderate        | <input checked="" type="checkbox"/> <u>heavy</u> |
| - land use of habitat: |  |  |         |                 |  |

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l

Conductivity: \_\_\_\_\_ uMHO

Dissolved NH4: \_\_\_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l

pH: \_\_\_\_\_

Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_

Salinity : \_\_\_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes:

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

Lo Bard  
2/7/10  
Page 3 Pool 3

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *NONE*

Notostracans: (note reproductive status) *NONE*

(Optional) Species Observations:

Cladocerans:    yes  no  
Conchostracans: yes  no  
Copepods:       yes  no  
Ostracods       yes  no  
Fish             yes  no  
Frogs            yes  no  
Salamanders    yes  no  
Waterfowl       yes  no  
Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
Anisoptera:                    yes  no  
Zygoptera:                    yes  no  
Hydrophilidae:                yes  no  
Dytiscidae:                    yes  no  
Corixidae:                     yes  no  
Notonectidae:                 yes  no  
Belostomatidae:               yes  no  
Other (specify) \_\_\_\_\_

Voucher Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>None</i>			

Pool 1  
2/21/10

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no  yes

Required color slides and/or photographs for the project site are included: \_\_\_ no  yes

Date: 2/21/2010 time: 11:00 County: ORANGE Quad: -

Collector(s): ERIK LACoste Permit #: TE 027736-4

Site/Project Name: LA BARS PARK Pool #: 1

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long.

Temperature: Water: \_\_\_\_\_ oC Air: \_\_\_\_\_ oC

Pool Depth: Surface Area:

at time of sampling: 20 cm at time of sampling: 50 m x 4 m

estimated maximum: ? cm estimated maximum: ? m x \_\_\_\_\_ m

*See previous survey for  
MAXIMUM SURFACE AREA.  
& Previous max Depth.*

Habitat Condition: (circle where appropriate)

- undisturbed  
- ungrazed

disturbed  
grazed:

tire tracks  
cattle

garbage  
horses  
light

discing/plowing  
sheep  
moderate

other  
heavy

- land use of habitat:

*Foot Traffic, Bike traffic, Pet  
Traffic,*

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_\_\_ ppm or mg/l  
Dissolved NH4: \_\_\_\_\_ ppt or ppm  
pH: \_\_\_\_\_  
Salinity : \_\_\_\_\_ ppt or ppm

Conductivity: \_\_\_\_\_ uMHO  
Dissolved Oxygen: \_\_\_\_\_ ppm or mg/l  
Turbidity: (secchi disc depth) \_\_\_\_\_ cm or: clear to bottom \_\_\_\_\_  
Total Dissolved Solids (TDS): \_\_\_\_\_ ppm

Notes:

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

Pool 1  
LaBaro  
2/21/10

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) ?

Notostracans: (note reproductive status) ?

(Optional) Species Observations:

Gladocerans:    yes no  
Conchostracans: yes no  
Copepods:       yes no  
Ostracods       yes no  
Fish             yes no  
Frogs            yes no  
Salamanders    yes no  
Waterfowl       yes no

Insects: (adult or larvae)  
Anisoptera:            yes no  
Zygoptera:             yes no  
Hydrophilidae:        yes no  
Dytiscidae:            yes no  
Corixidae:             yes no  
Notonectidae:         yes no  
Belostomatidae:       yes no

Other (specify) \_\_\_\_\_

Other (specify) \_\_\_\_\_

Unknown larval stage organism - unidentified

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
No			

Note: Pool #3 Too shallow for sampling.

Pool 1  
2/21/10  
LaBaris

U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no X yes

Required color slides and/or photographs for the project site are included: \_\_\_ no X yes

Date: 3/8/10 Time: 1210 County: ORANGE Quad: -

Collector(s): Erik LaCoste Permit #: TE027736-4

Site/Project Name: LABARD PARK Pool #: 1

Township: \_\_\_ Range: \_\_\_ Section: \_\_\_ lat. \_\_\_ long. \_\_\_

Temperature: Water: 74 F Air: 63 of F

Pool Depth: Surface Area:

at time of sampling: 20 ~~20~~ cm at time of sampling: \_\_\_ m x \_\_\_ m ← see 2/21/10 for consistency

estimated maximum: 20 ~~20~~ cm estimated maximum: \_\_\_ m x \_\_\_ m ← see 2/21/10 for consistency

Habitat Condition: (circle where appropriate)

- undisturbed

disturbed: tire tracks

garbage

discing/plowing

- ungrazed

grazed: cattle

horses

sheep

other Foot traffic / PETS

light

moderate

heavy

- land use of habitat:

Powerline Right of way

(Optional) Water Chemistry Data

Alkalinity (total): \_\_\_ ppm or mg/l

Conductivity: \_\_\_ uMHO

Dissolved NH4: \_\_\_ ppt or ppm

Dissolved Oxygen: \_\_\_ ppm or mg/l

pH: \_\_\_

Turbidity: (secchi disc depth) \_\_\_ cm or: clear to bottom \_\_\_

Salinity: \_\_\_ ppt or ppm

Total Dissolved Solids (TDS): \_\_\_ ppm

Notes: Water is consistently very muddy - it is always highly disturbed.

U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey

Note: Please fill out the required information completely for each site visit.

2/21/10  
LABARD  
Pool 1

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status)

Notostracans: (note reproductive status)

(Optional) Species Observations:

Cladocerans:	yes	<input checked="" type="radio"/> no	Insects: (adult or larvae)		
Conchostracans:	yes	<input type="radio"/> no	Anisoptera:	yes	<input checked="" type="radio"/> no
Copepods:	yes	<input type="radio"/> no	Zygoptera:	yes	<input type="radio"/> no
Ostracods	yes	<input type="radio"/> no	Hydrophilidae:	yes	<input type="radio"/> no
Fish	yes	<input type="radio"/> no	Dytiscidae:	yes	<input type="radio"/> no
Frogs	yes	<input type="radio"/> no	Corixidae:	yes	<input type="radio"/> no
Salamanders	yes	<input type="radio"/> no	Notonectidae:	yes	<input type="radio"/> no
Waterfowl	yes	<input type="radio"/> no	Belostomatidae:	yes	<input type="radio"/> no
Other (specify) _____			Other (specify) _____		

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

# Individuals

Accession/Catalog #

Pool #

NONE

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet  
Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

This form is being submitted to serve as part of the 90-day report: \_\_\_ no X yes

Required color slides and/or photographs for the project site are included: \_\_\_ no X yes

Date: 3/8/10 Time: 12:40 County: ORANGE Quad: -

Collector(s): ERIK LACOSTE Permit #: TE027736-4

Site/Project Name: LA BARD PARK Pool #: 2

Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ lat. \_\_\_\_\_ long. \_\_\_\_\_

Temperature: Water: 79 °C Air: 63 °C

Pool Depth: Surface Area:

at time of sampling: 7 cm at time of sampling: 5 m x 2.5 m

estimated maximum: - cm estimated maximum: 11 m x 10 m

← SEE PREVIOUS DATA FOR MAX.

Habitat Condition: (circle where appropriate)

- |               |                               |         |                 |              |
|---------------|-------------------------------|---------|-----------------|--------------|
| - undisturbed | disturbed: <u>tire tracks</u> | garbage | discing/plowing |              |
| - ungrazed    | grazed: <u>cattle</u>         | horses  | sheep           | other _____  |
|               |                               | light   | moderate        | <u>heavy</u> |

- land use of habitat:

Part of A Powerline Corridor / R.O.W.

(Optional) Water Chemistry Data

Alkalinity (total): _____ ppm or mg/l	Conductivity: _____ uMHO
Dissolved NH4: _____ ppt or ppm	Dissolved Oxygen: _____ ppm or mg/l
pH: _____	Turbidity: (secchi disc depth) _____ cm or: clear to bottom _____
Salinity: _____ ppt or ppm	Total Dissolved Solids (TDS): _____ ppm

Notes: Very Disturbed By Tire Ruts  
No.F.S. clam shrimp Present.

**U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey**

Note: Please fill out the required information completely for each site visit.

Pool 2  
3/8/10  
LaSARD

Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status)

Notostracans: (note reproductive status)

(Optional) Species Observations:

Cladocerans:	yes	<input checked="" type="radio"/> no	Insects: (adult or larvae)		
Conchostracans:	yes	<input type="radio"/> no	Anisoptera:	yes	<input checked="" type="radio"/> no
Copepods:	yes	<input type="radio"/> no	Zygoptera:	yes	<input type="radio"/> no
Ostracods	yes	<input type="radio"/> no	Hydrophilidae:	yes	<input type="radio"/> no
Fish	yes	<input type="radio"/> no	Dytiscidae:	yes	<input type="radio"/> no
Frogs	yes	<input type="radio"/> no	Corixidae:	yes	<input type="radio"/> no
Salamanders	yes	<input type="radio"/> no	Notonectidae:	yes	<input type="radio"/> no
Waterfowl	yes	<input type="radio"/> no	Belostomatidae:	yes	<input type="radio"/> no
Other (specify) _____			Other (specify) _____		

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

Species

# Individuals

Accession/Catalog #

Pool #

NONE



Species Observed: state none or estimate # of individuals present in terms of an order of magnitude (e.g., 10's, 100's, 1000's)

Anostracans: (note reproductive status) *No* *Clam shrimp Present High Numbers.*  
Notostracans: (note reproductive status) *No*

(Optional) Species Observations:

Cladocerans:    yes  no  
Conchostracans: yes  no  
Copepods:       yes  no  
Ostracods       yes  no  
Fish             yes  no  
Frogs            yes  no  
Salamanders    yes  no  
Waterfowl       yes  no  
Other (specify) \_\_\_\_\_

Insects: (adult or larvae)  
Anisoptera:            yes  no  
Zygoptera:             yes  no  
Hydrophilidae:        yes  no  
Dytiscidae:            yes  no  
Corixidae:             yes  no  
Notonectidae:         yes  no  
Belostomatidae:      yes  no  
Other (specify) \_\_\_\_\_

Voucher Specimens Specimens shall be preserved according to the standards of the institution in which they will be accessioned.

<u>Species</u>	<u># Individuals</u>	<u>Accession/Catalog #</u>	<u>Pool #</u>
<i>None.</i>			