LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

PROTOCOL-LEVEL WET SEASON BRANCHIOPOD SURVEY RESULTS
90-DAY REPORT
PANOCHE VALLEY SOLAR FARM
SAN BENITO COUNTY, CALIFORNIA
(Tracking Number 81440-2010-CPA-0023)

Prepared by:

LIVE OAK ASSOCIATES, INC.

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August 13, 2010 PN 1297-06

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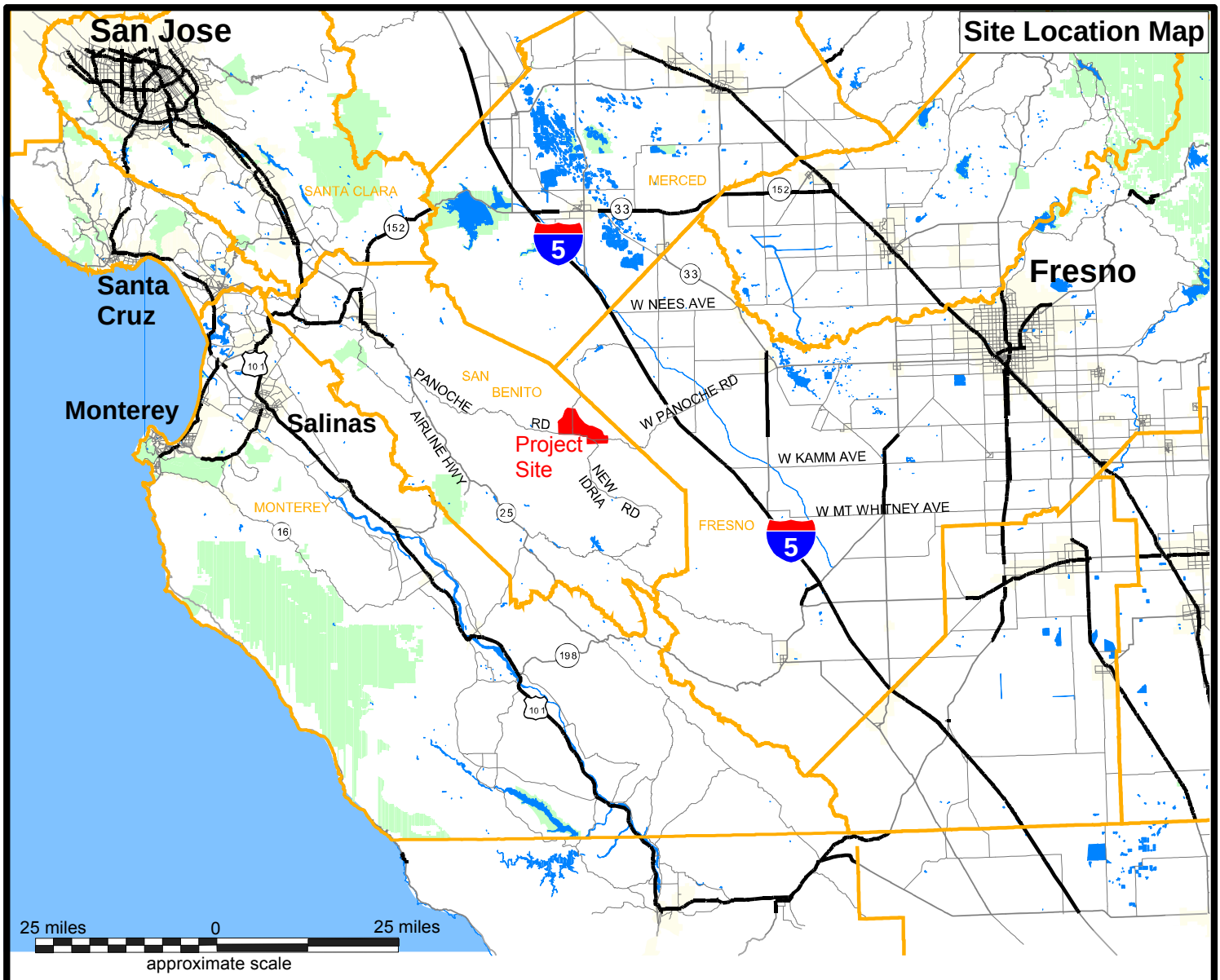
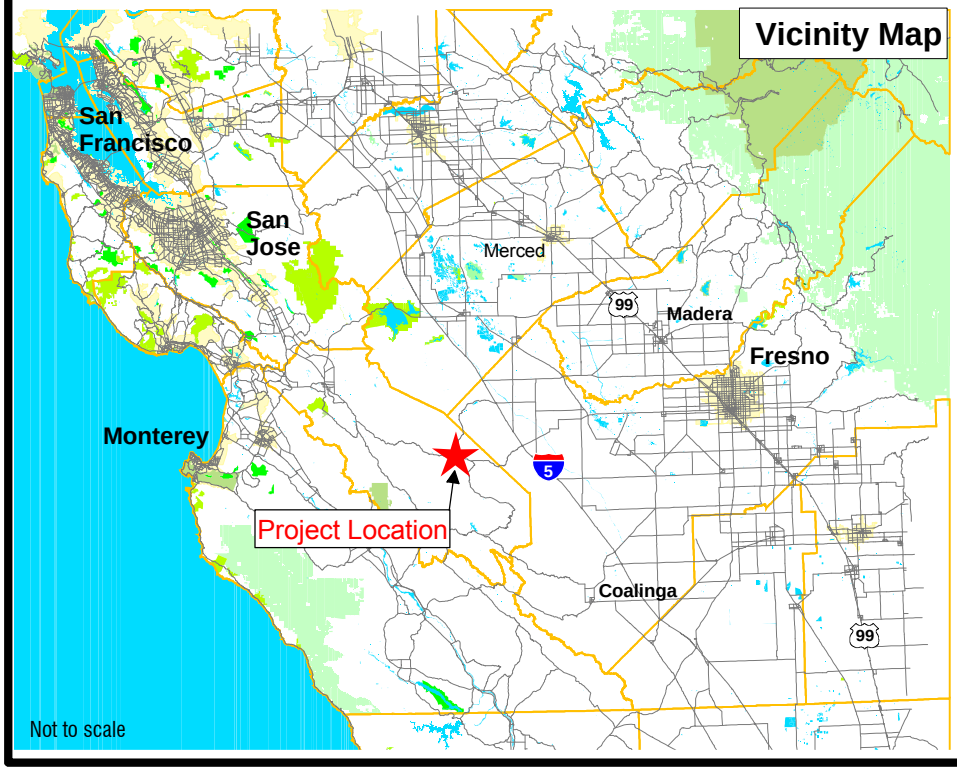
1.0 INTRODUCTION AND SITE DESCRIPTION

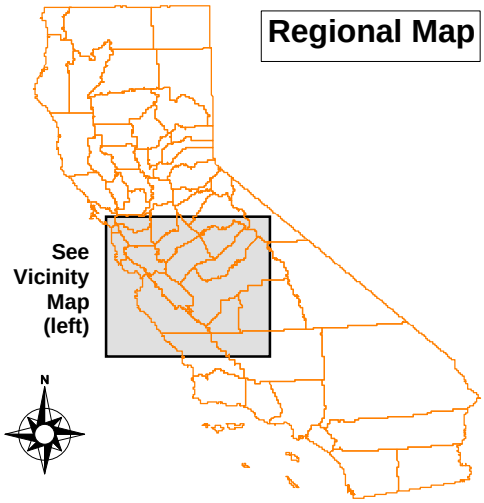
Protocol-level wet-season branchiopod surveys were conducted by Live Oak Associates, Inc. (LOA) on the Panoche Valley Solar Farm (PVSF) project site in San Benito County, California. Surveys consisted of protocol level wet season sampling in 2009/2010. The site or study area consists of approximately 4,885-acres, located in Panoche Valley approximately 15 miles west of Interstate 5 and six miles south of Mercey Hot Springs near the intersection of Panoche Road and Little Panoche Road (Figure 1). The site can be found on the Cerro Colorado, Mercey Hot Springs, Llanada, and Panoche, California U.S.G.S quadrangles, in Sections 3-4, 8-11, and 13-16, Township 15 South, Range 10 East and Section 19, Township 15 South, Range 11 East (Figure 2).

All the parcels within the study area are used for cattle grazing. The site is surrounded by rangeland and bordered to the west by the Gabilan Range and to the east by the Panoche Hills. A number of drainages and creeks are present in the area including the Panoche and Las Aguilas Creeks. The portion of the Valley associated with the proposed project ranges in elevation from approximately 1200 feet National Geodetic Vertical Datum (NGVD) to approximately 1490 feet NGVD.

Thirteen soil types from nine soil series were identified on the project site. The Riverwash soil type is the only soil considered hydric. This soil type is considered hydric due to frequent flooding for long durations or very long durations during the growing season. Riverwash consists of mixed water-washed sand and gravel, occurs along streams or rivers and is often flooded during storm events. Within the study area, Riverwash soils are associated with Panoche Creek and portions of Las Aguilas Creek. The Panoche Creek channel was not considered potential habitat for fairy shrimp or tadpole shrimp due to high flows that periodically scour the creek channel. Ponded areas that were sampled consisted primarily of two types; 1) Hard-packed depressions associated with ranch roads and cattle troughs which were extremely ruderal in nature and were repeatedly disturbed by vehicle traffic and/or cattle, and 2) Natural and artificial depressions within natural swales. Annual precipitation in the general vicinity of the site is highly variable from year to year. Annual rainfall ranges between 9 and 13





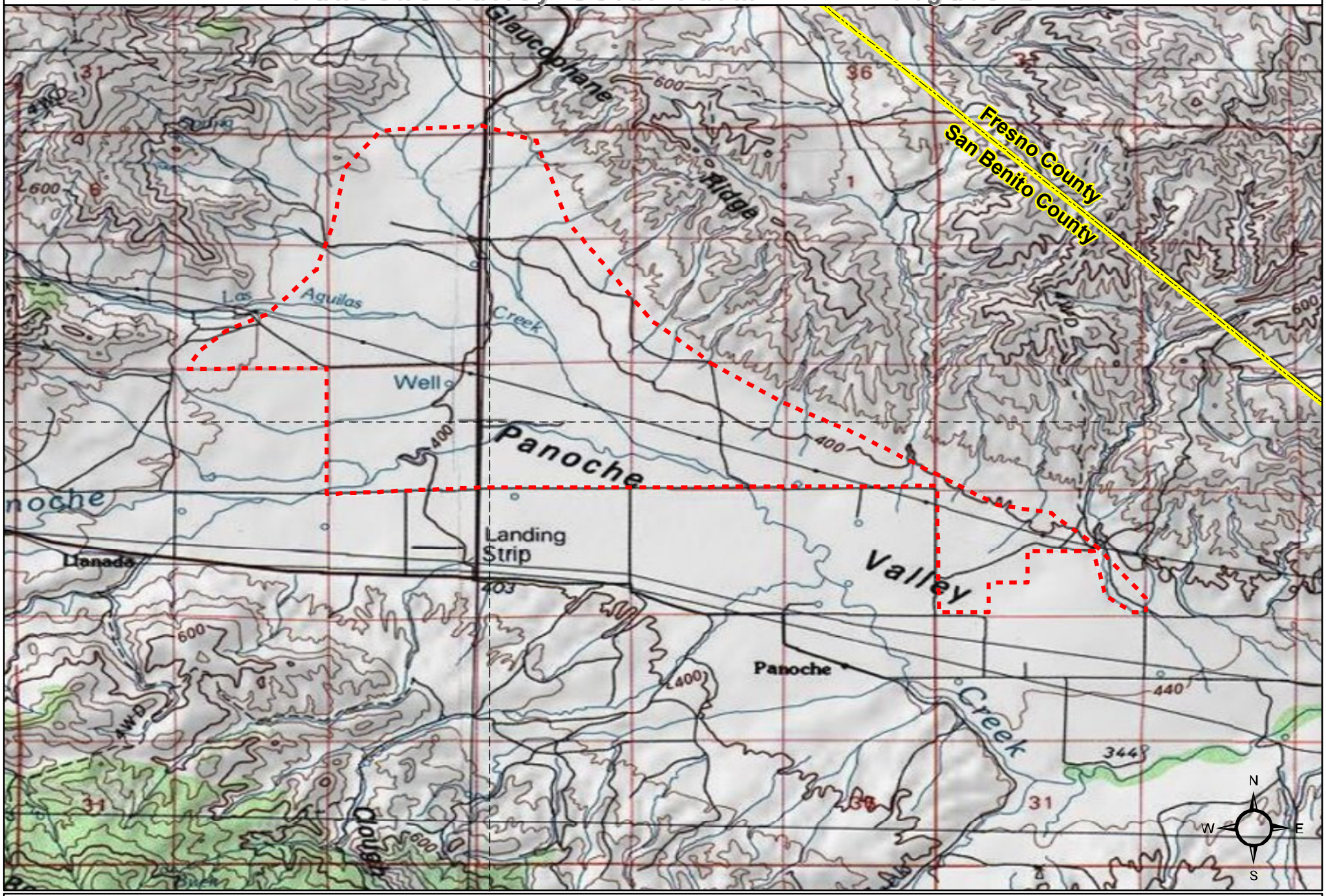


Live Oak Associates, Inc.

Panoche Valley Solar Farm
Vicinity Map

Date	Project #	Figure #
11/11/09	1297-04	1

Panoche Valley Solar Farm Figure 2



County Boundary

Study Area Boundary

USGS Quads: Cerro Colorado, Mercey Hot Springs, Panoche, Llanada

POWER ENGINEERS

R:\117257_Ponoche\DD\GIS\Applications\QuadMap Print Date: 11/11/2009

1:63,360 1 inch=1 mile

0 1 2 Miles

Solargen Energy

inches, almost 85% of which falls between October and March. During drought years, precipitation totals may only reach 5 inches per year. Storm-water infiltrates the soils of the site, but when field capacity has been reached, gravitational water flows into the creeks and drainages.

2.0 METHODS

In order to determine the presence or absence of shrimp species on the PVSF project site, LOA conducted protocol-level wet-season branchiopod surveys in the winter and spring of 2009/2010. All surveys were conducted 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 Brachiopods* (USFWS 1996).

LOA was authorized to initiate branchiopod surveys by David Pereksta with the U.S. Fish and Wildlife Service (USFWS) on November 24, 2009 (Appendix A). Wet season surveys were conducted throughout winter and spring of 2009/2010.

Jeff Gurule (TE-168924) conducted most of the wet-season pool sampling. Data was recorded in the field by Jeff Gurule and Austin Pearson (TE-108683-0) with the assistance of Geoffrey Cline (an un-permitted LOA biologist) when necessary. Data was recorded on a previously approved data sheet, authorized via email by David Kelly with the USFWS on November 12, 2008 (See Appendix A). The data sheet is an Excel spreadsheet, with data entered in the field directly into the spreadsheet via a PDA. The 2009/2010 wet season data is presented in Appendix B.

2.1 Wet Season Sampling

The *Interim Survey Guidelines* (USFWS 1996) require that protocol-level wet season surveys begin once ponds are inundated with greater than three centimeters after 24 hours of a storm event. Following the initial inundation, ponds must be sampled at least every two weeks for as long as they are inundated or until they have experienced 120 days of continuous inundation, whichever is shorter. However, if ponds dry, then refill, the 120 day period starts anew.

After each substantial rain event the site was monitored to determine if the pools and puddles were inundated. Pools on the site began filling in December 2009 with pools receiving runoff from hard-packed surfaces generally filling first. As such, the sampling of onsite pools and puddles began on December 21, 2009 and continued on January 4, 5, 18, and 19, February 1, 2, 16, and 17, March 2, 3, 16, 17, and 30, April 13, 14, 27, and 28, May 11 and 25, and June 7, 2010.

After significant rain events increased in January and the soils became more saturated, a few pools previously sampled separately combined to form larger pools that were then sampled as one pool. Sampling continued in these now larger combined pools, with data only collected from the aggregate pools. In order to continue to identify the donor pools, the aggregate pools were numbered using the pool numbers of the donor pools (ex. Aggregate Pool Number 24, 25 consisted of donor pools 24 and 25). Each area once occupied by an individual donor pool, now within the boundaries of the aggregate pool, was dip-netted to assure a thorough sampling of the aggregate pools.

2.2 USFWS Reporting and Voucher Specimen

The USFWS requires that a 90-day report be submitted to the appropriate field office (Sacramento USFWS in this case) following the completion of protocol-level branchiopod surveys. Additionally, the USFWS requires that a "Notice of Presence" be submitted upon identifying a federally listed branchiopod species from the project site authorized for sampling within ten working days of the finding. It is also required that a California Natural Diversity Data Base (CNDDB) field survey form be submitted to CDFG for listed species observed on site.

Any federally listed branchiopods collected during the protocol-level surveys must be submitted as voucher specimens to the California Academy of Sciences (CAS) or the Natural Museum of Los Angeles County (LACM). All specimens have to be preserved and submitted according to the CAS or LACM strict standards.

3.0 RESULTS

A total of 128 pools met the criteria for inundation in 2009/2010 and were sampled for branchiopod species (Figure 3). As previously mentioned some of these 128 pools combined after initial sampling events to form larger pools, temporarily reducing the number of actual pools in the sample set. Once the pools were disconnected from each other they were no longer considered a group. The 2009/2010 rainy season totals for the Panoche Weather Station is 14.57 inches, 137% of the yearly average for Panoche, California (California Department of Water Resources, Station PNH, accessed online June 17th, 2010). Even though total precipitation was above average, only one pool experienced an Anostracan hatch.

3.1 Wet Season Sampling

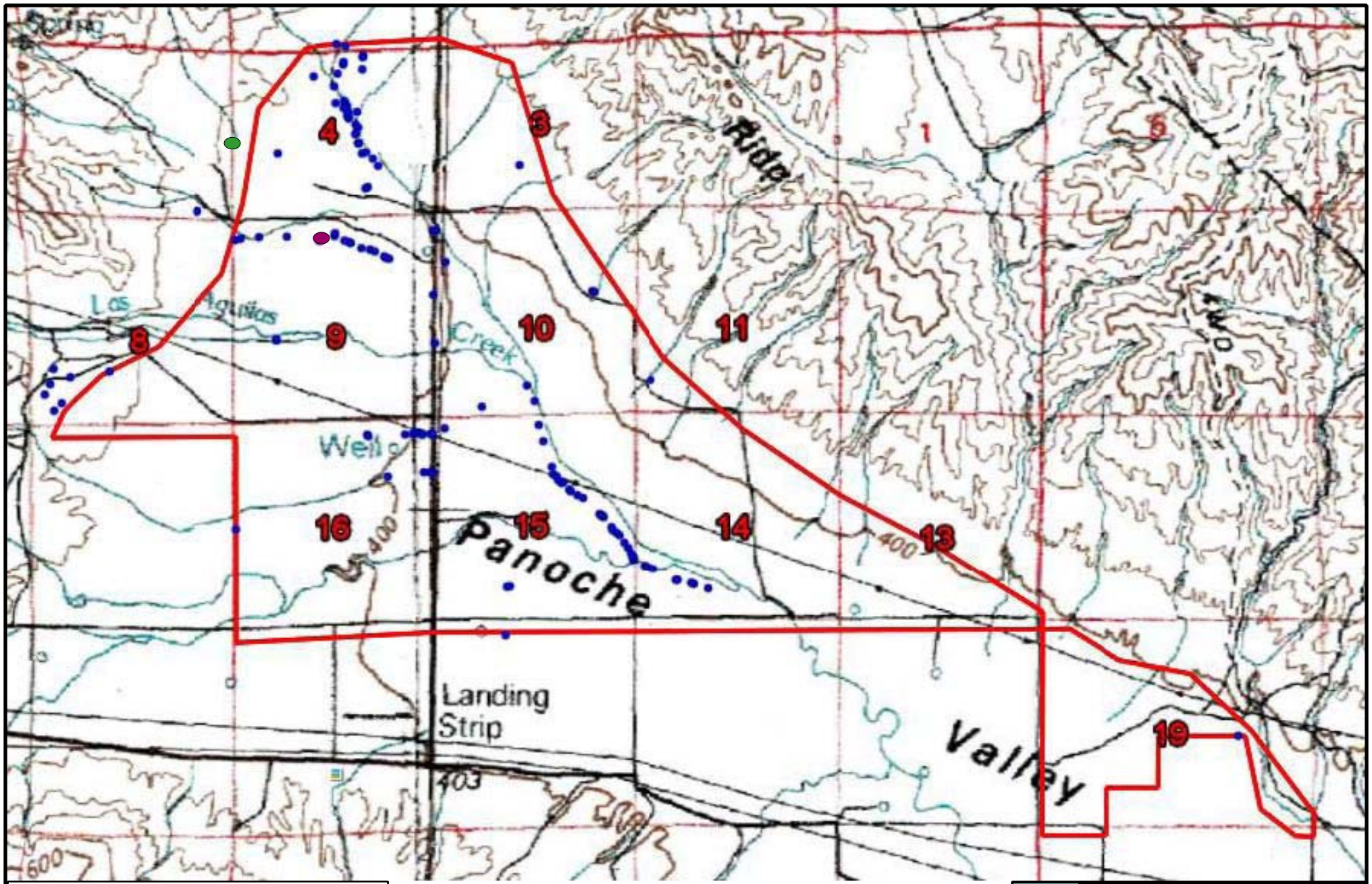
Only one anostracan species, The Federally Threatened vernal pool fairy shrimp (*Branchinecta lynchi*), was detected during 2009/2010 wet season sampling on the PVSF project site. *Branchinecta lynchi* were detected in a single pool (Pool #12) on March 16, 2010. Results of the 2009/2010 wet season Branchiopod surveys are presented in Figures 3 below. Pool #16 was found to contain California tiger salamander larvae (*Ambystoma californiense*), which were observed incidentally. Tadpole shrimp (*lepiduris packerdi*) were not detected on the site. Datasheets are presented in Appendix B. Pool coordinates are presented in Appendix C and photographs of the site, with photo specific information, are located in Appendix D.

3.2 USFWS Reporting and Voucher Specimen

This report serves as the 2009/2010 wet season branchiopod 90-day report for the PVSF project site. Notification of the presence of the Federally Threatened *Branchinecta lynchi* was sent to Christopher Diel at the Ventura, CA Branch of the USFWS via an email on March 24, 2010.

As required by the USFWS, a CNDDB form will be submitted to CDFG in order to document the presence of *Branchinecta lynchi* found during the 2009/2010 wet season surveys.

Voucher specimens will be submitted in accordance with the *Interim Survey Guidelines* (USFWS 1996).



LEGEND

- Sampled Pools
- *Branchinecta lynchi*
- *Ambystoma californiense*
- Approximate Project Boundary

N

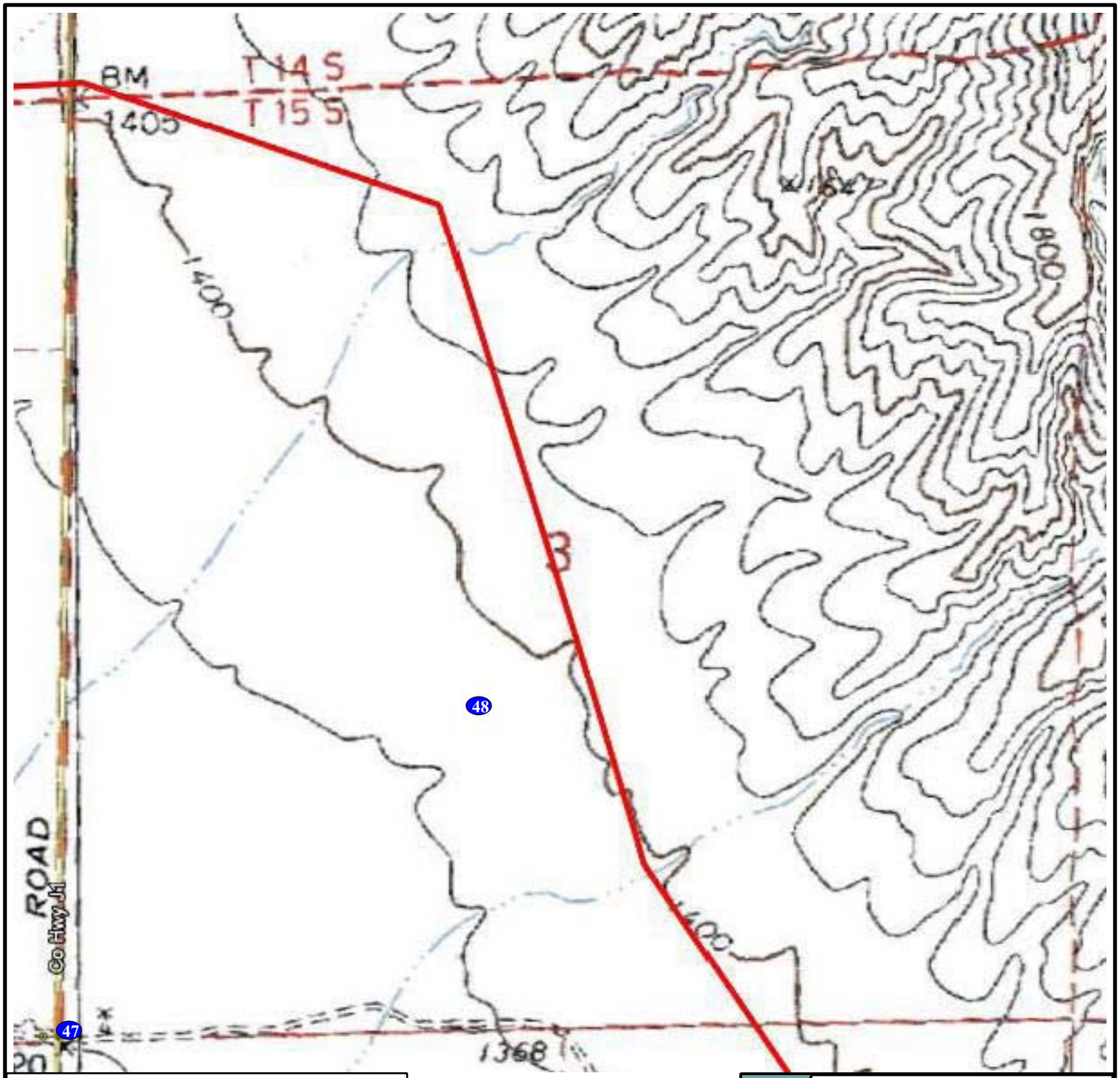
1 Mile 0 1 Mile

approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Overview Map

Date	Project #	Figure #
7/8/10	1297-06	3 - Overview



LEGEND

- 68 Sampled Pool
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

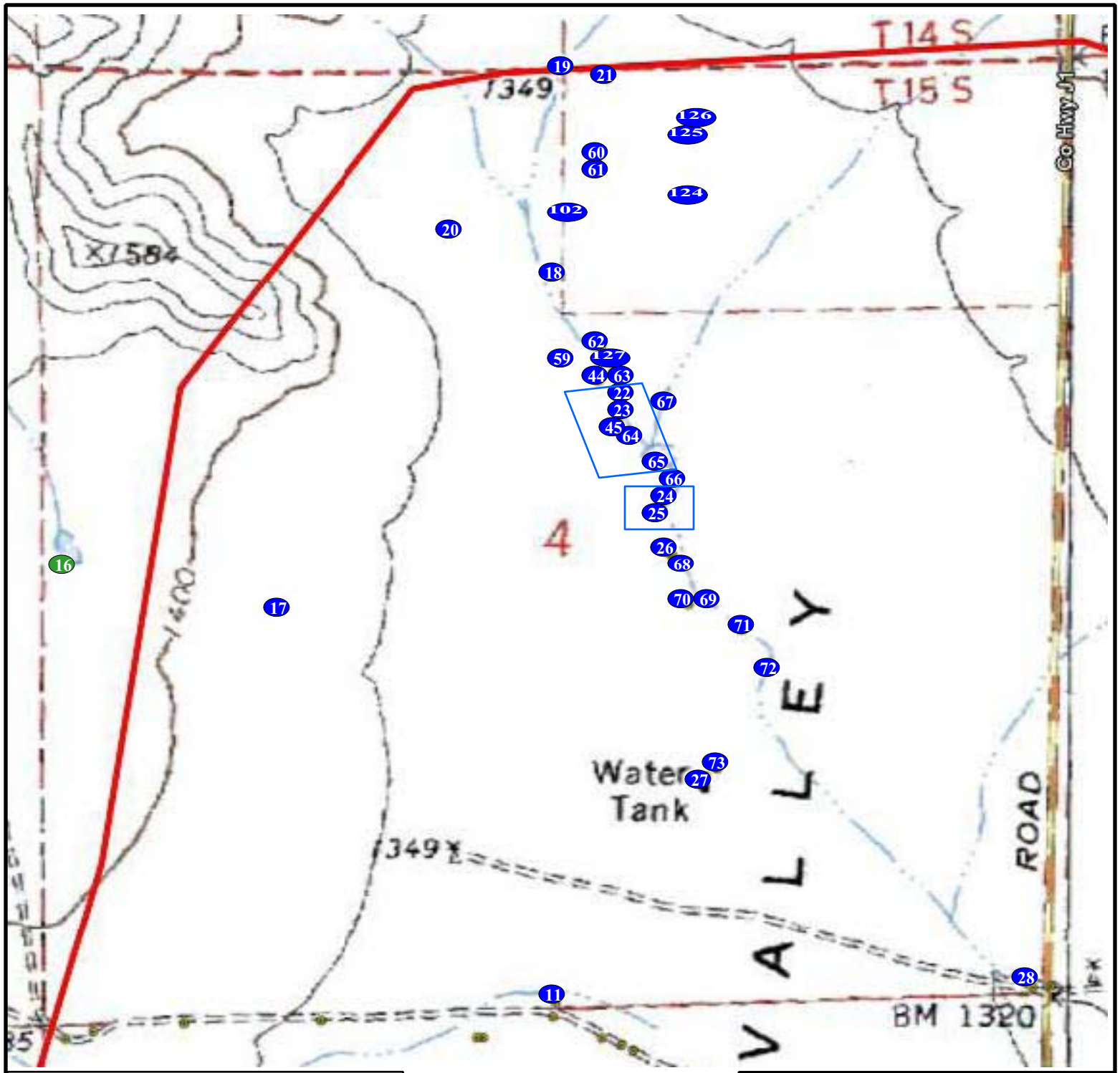
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 3

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 3



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

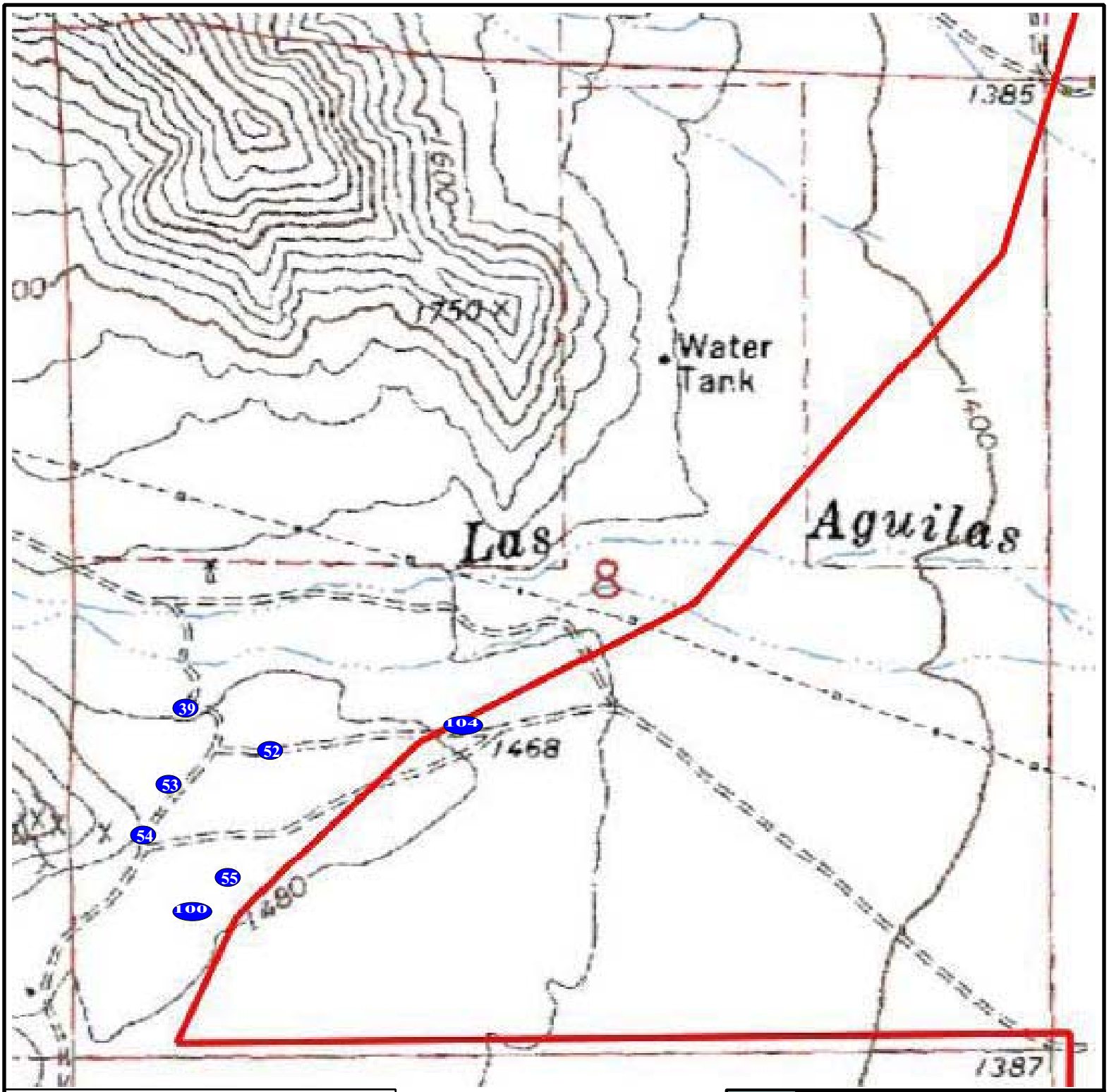
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 4

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 4



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

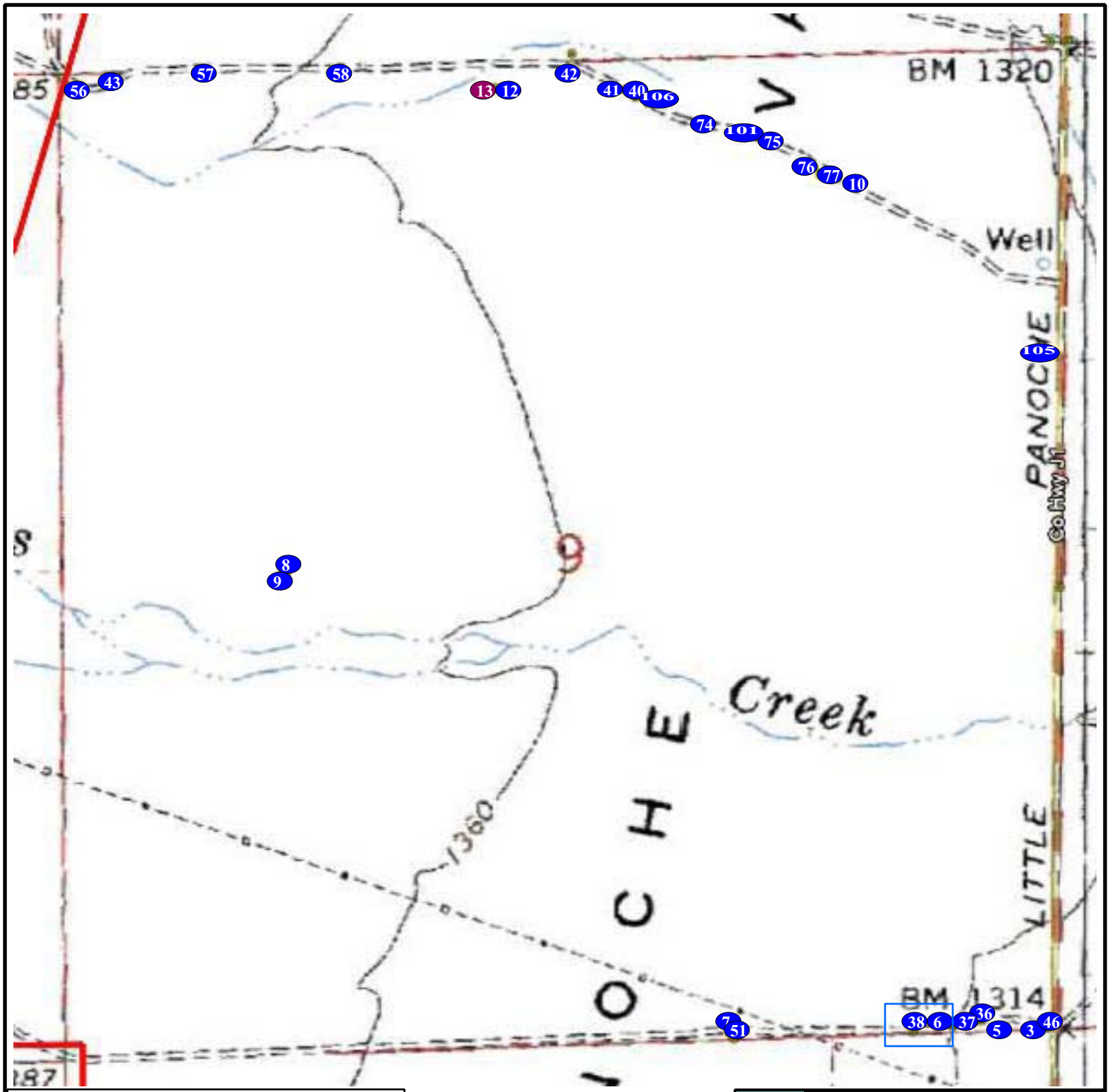
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 8

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 8



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

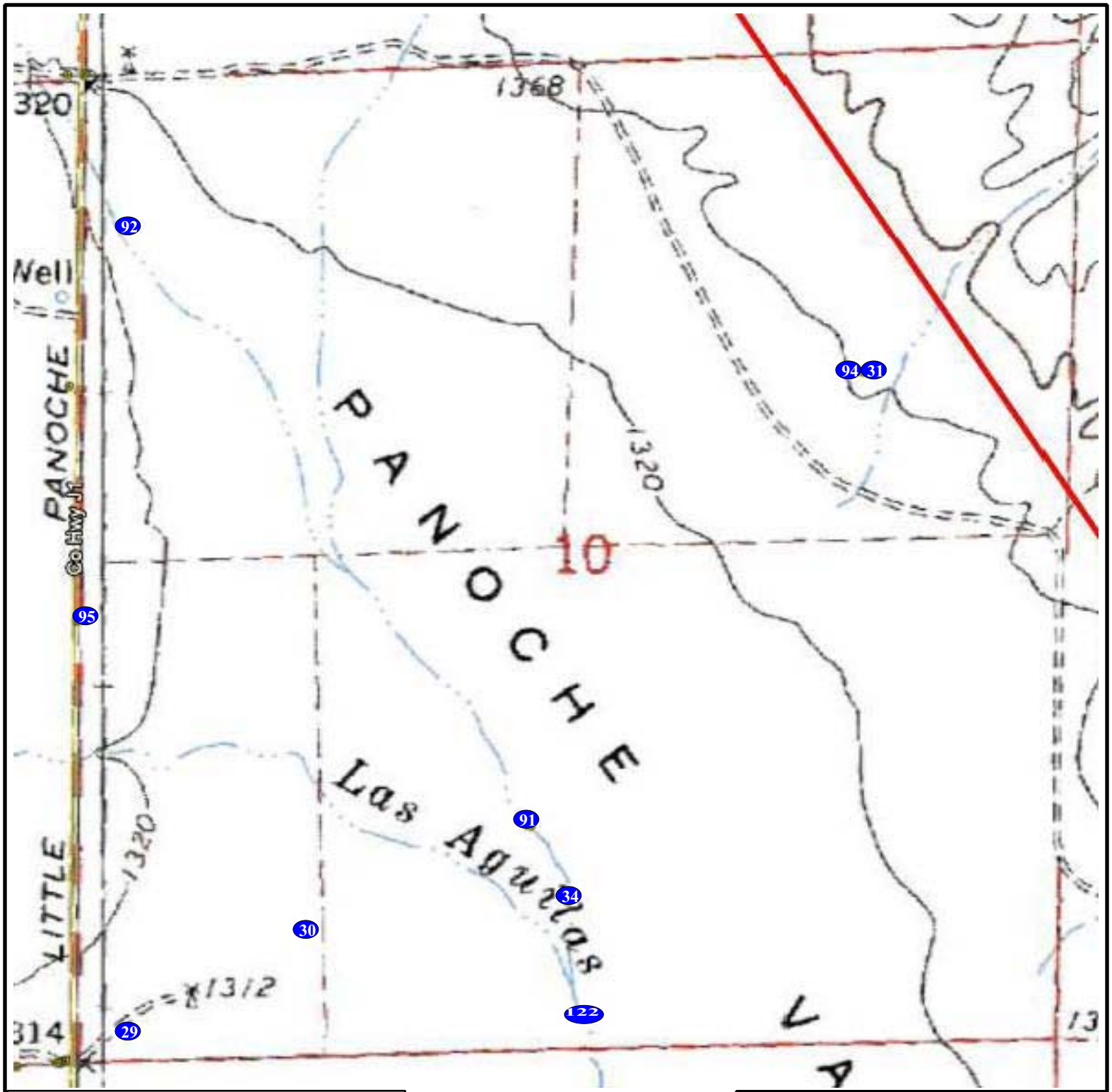
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 9

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 9



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

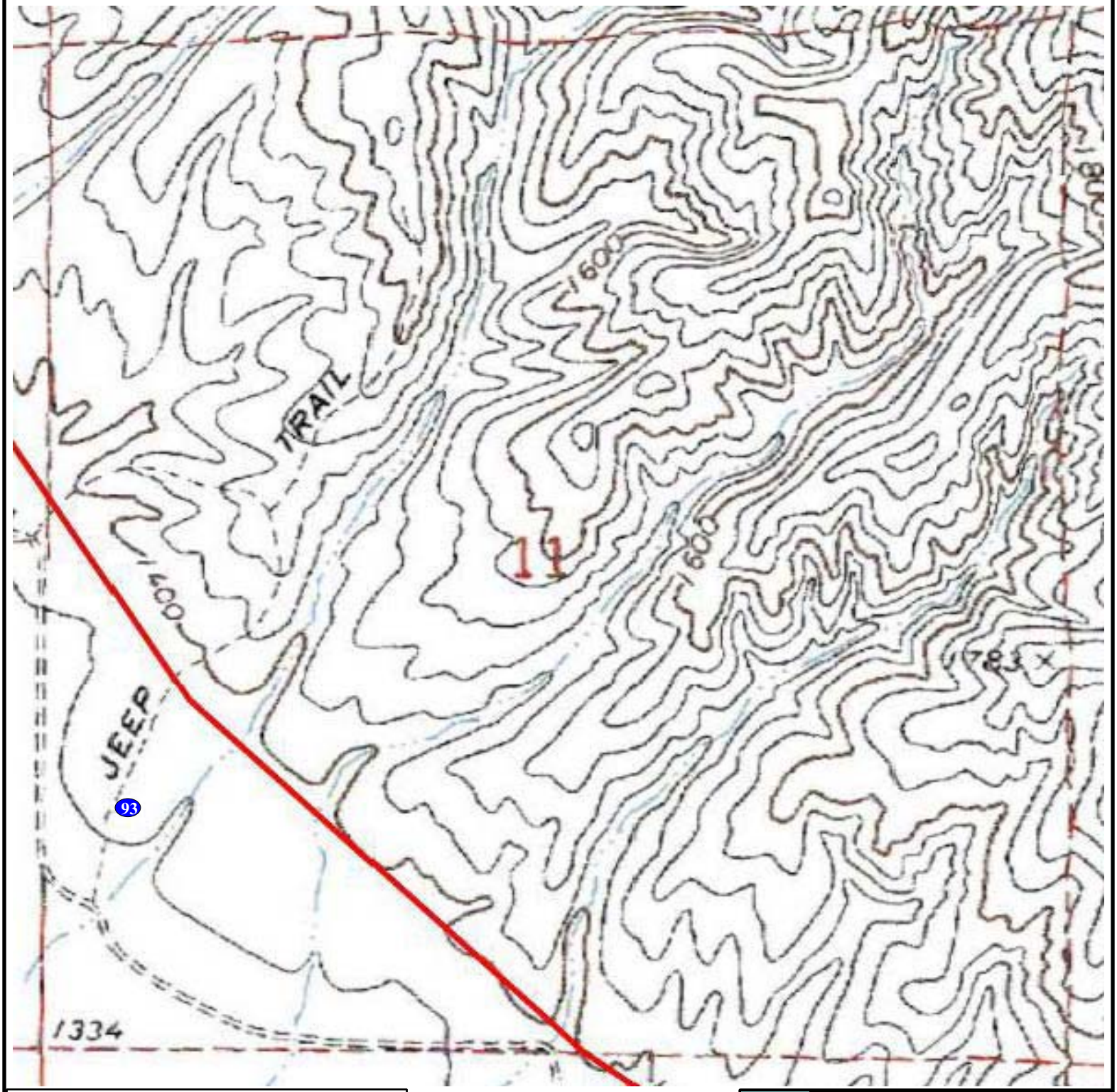
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 10

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 10



LEGEND

- 68 Sampled Pool
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

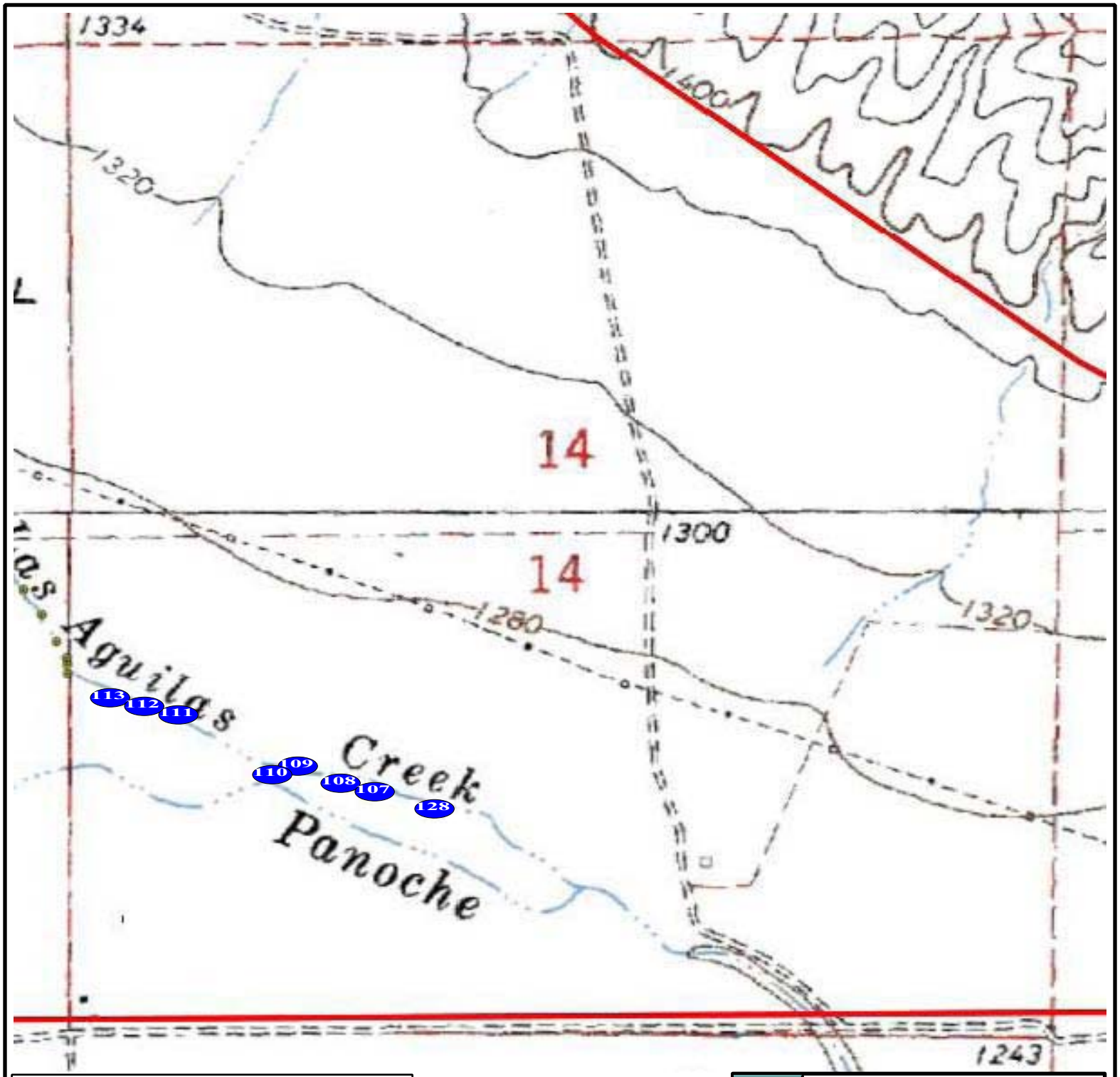
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 11

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 11



LEGEND

- 68 Sampled Pool
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

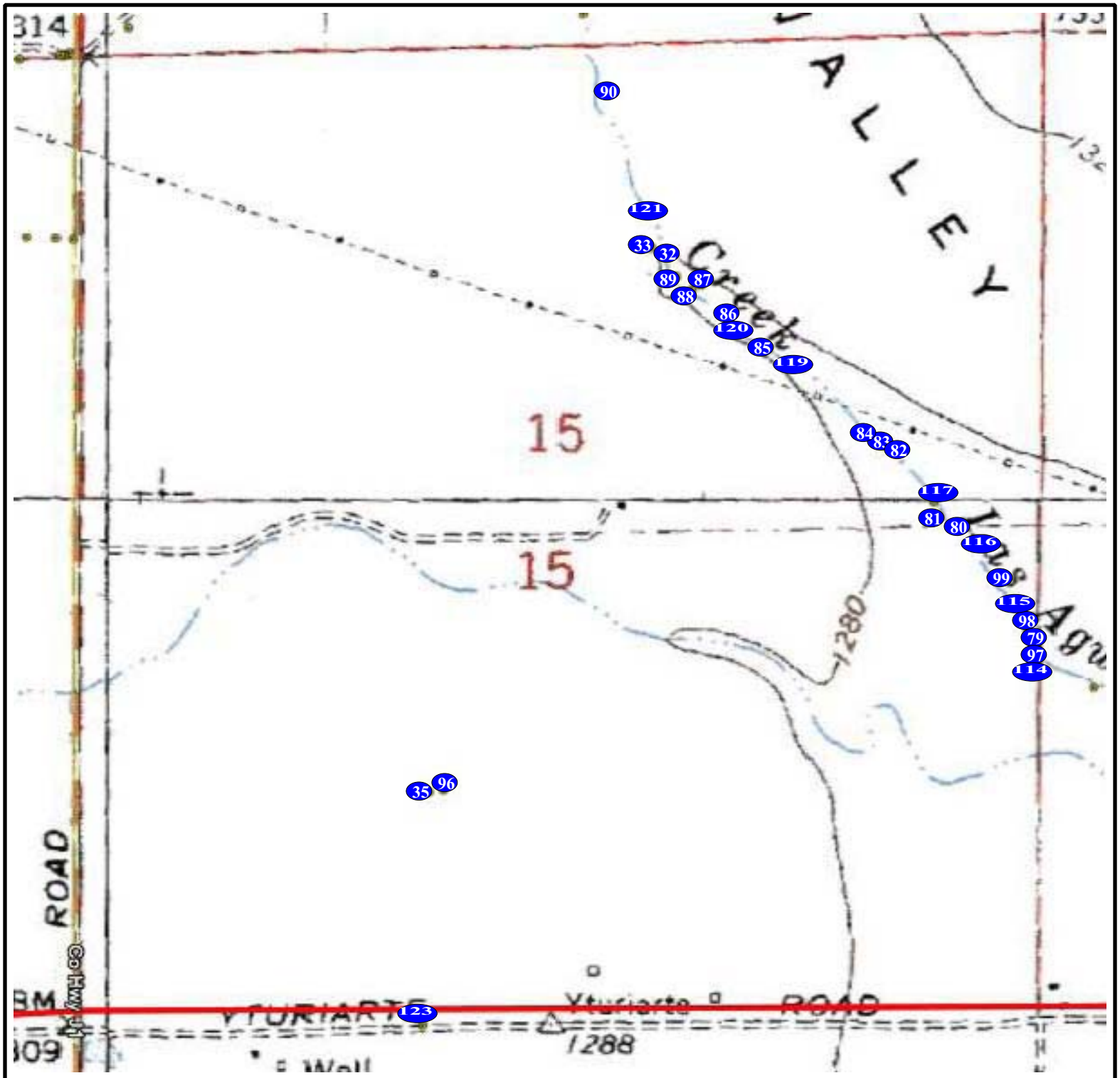
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 14

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 14



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

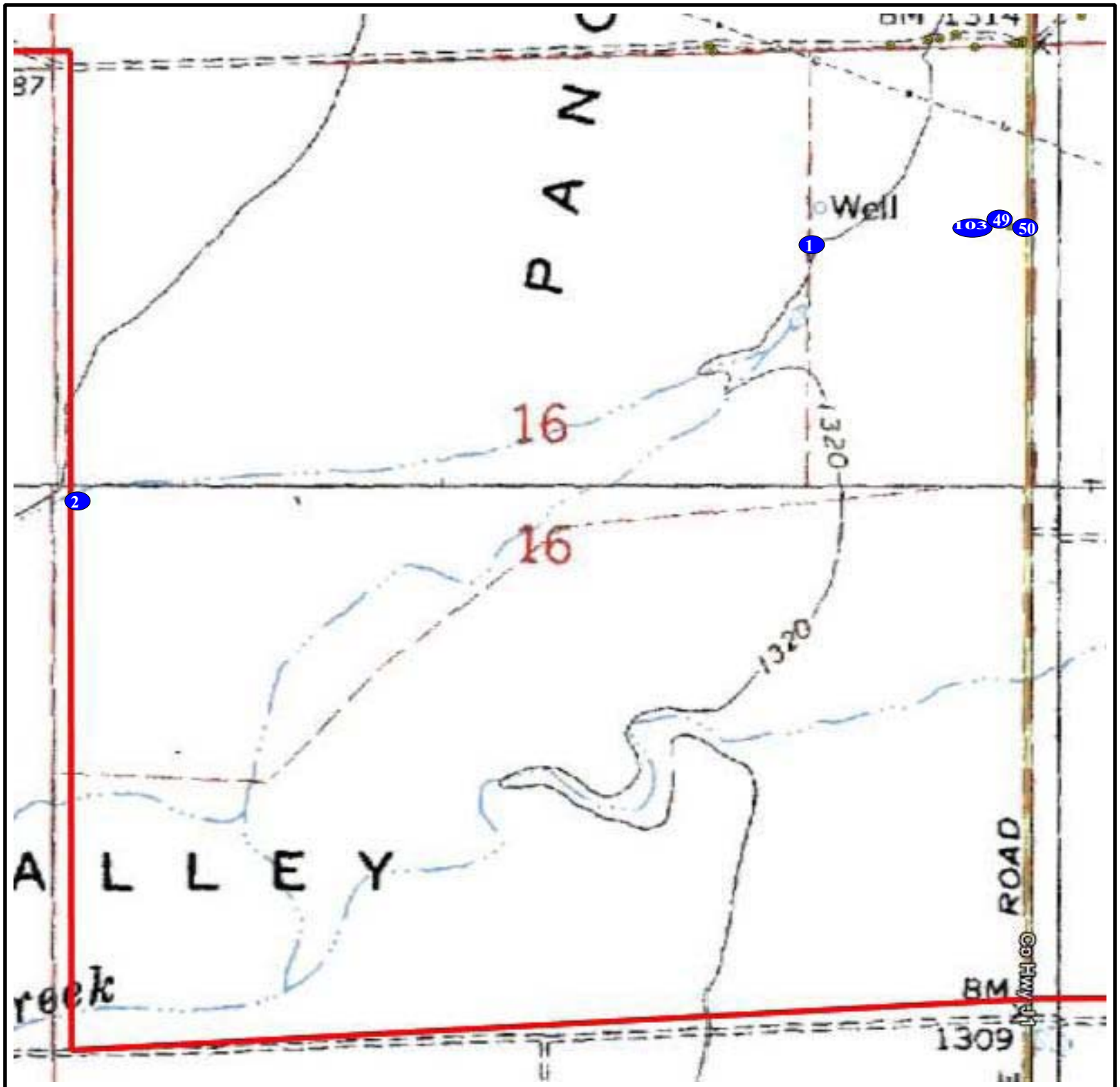
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 15

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 15



LEGEND

- 68 Sampled Pools
- 68 *Branchinecta lynchi*
- 68 *Ambystoma californiense*
- Pools Converged Into One Pool
- Approximate Project Boundary

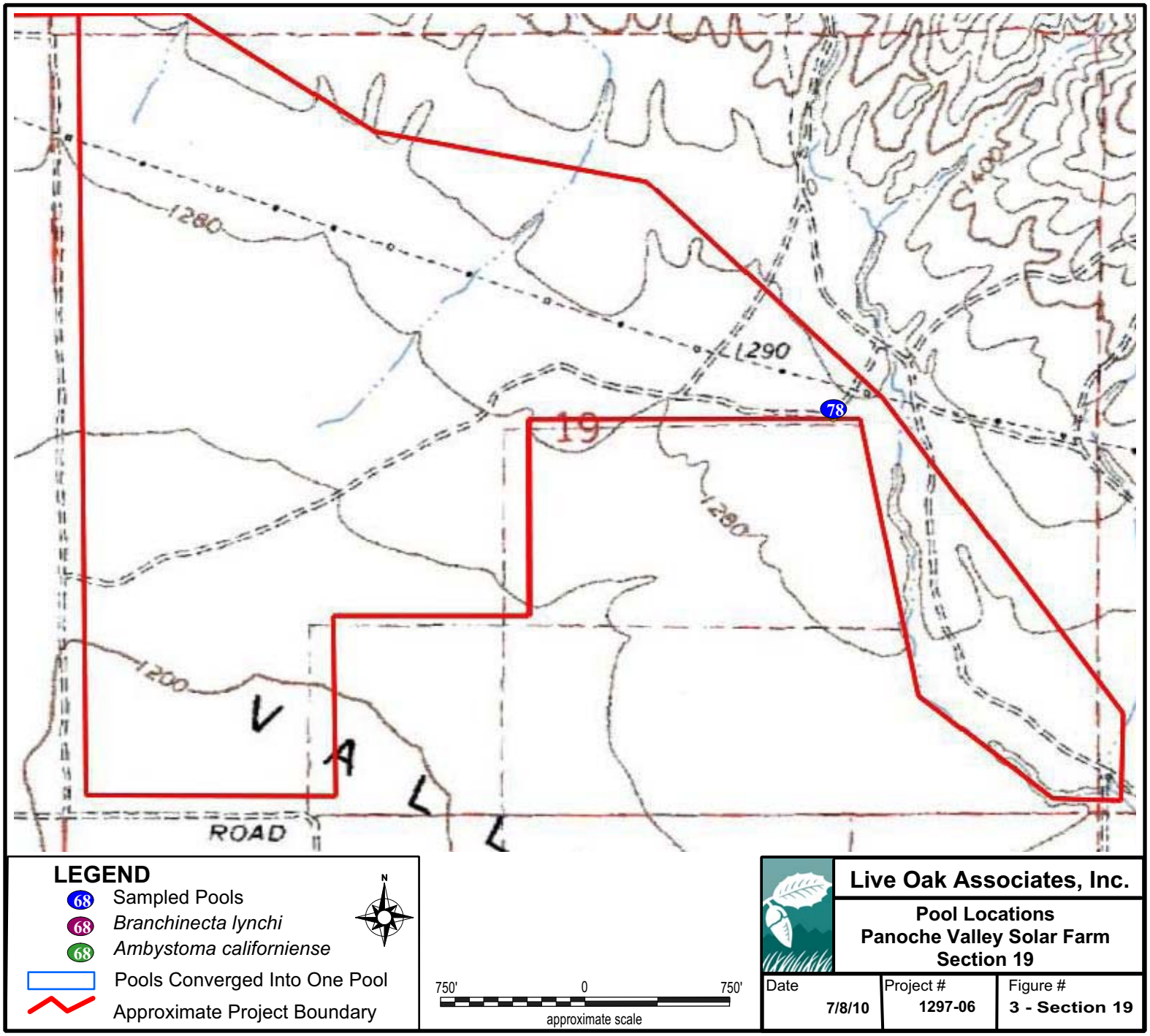
N

750' 0 750'
approximate scale

Live Oak Associates, Inc.

Pool Locations
Panoche Valley Solar Farm
Section 16

Date	Project #	Figure #
7/8/10	1297-06	3 - Section 16


1280
1290
78
19
1280
1200
V
A
L
L
ROAD
LEGEND
68 Sampled Pools
68 Branchinecta lynchi
68 Ambystoma californiense
Pools Converged Into One Pool
Approximate Project Boundary
N
750'
0
750'
approximate scale
Live Oak Associates, Inc.
Pool Locations
Panoche Valley Solar Farm
Section 19
Date
7/8/10
Project #
1297-06
Figure #
3 - Section 19

3.3 Conclusion

Based on the results of the 2009/2010 wet season surveys, it has been determined that the Federally Threatened vernal pool fairy shrimp (*Branchinecta lynchi*) is present in one pool (Pool #12) on the PVSF project site. Incidental findings of California tiger salamander occurred in Pool #16 during the Branchiopod surveys.

I certify that the information in this survey report and attached exhibits fully and accurately represent my work.

Jeff Gurule

Signature: . Date: August 13, 2010.

Permit # TE-168924

APPENDIX A:
AUTHORIZATION LETTERS

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
81440-2010-CPA-0023

November 24, 2009

Michele Korpos
Senior Project Manager
Live Oak Associates, Inc.
6840 Via Del Oro, Suite 220
San Jose, California 95119

Subject: Authorization to Commence Aquatic Surveys for Vernal Pool Branchiopods at the Proposed Panoche Valley Solar Farm, San Benito County, California

Dear Ms. Korpos:

We have reviewed your request, dated November 11, 2009, and received by our office by electronic mail, to conduct aquatic larval surveys for federally listed vernal pool branchiopods, including the federally threatened vernal pool fairy shrimp (*Branchinecta lynchi*). You are requesting permission to conduct wet-season sampling at the proposed Panoche Valley Solar Project, San Benito County, California. The surveys will be conducted by Davianna Ohlson, Melissa Denena, Jeff Gurule, and/or Austin Pearson under the terms and conditions of their recovery permit (TE1670750-0, TE108681-0, TE168924-0, TE108683-0 respectively) and performed in accordance with the methods described in the U.S. Fish and Wildlife Service's 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, April 1996.

We hereby authorize Davianna Ohlson, Melissa Denena, Jeff Gurule, and Austin Pearson to conduct the wet-season surveys. We remind them of their responsibilities in reporting survey results to us, regardless of findings, and suggest that they review the permit for any special conditions that must be met. If you have any questions, please contact Christopher Diel of my staff at (805) 644-1766, extension 305.

Sincerely,

for David M. Pereksta
Assistant Field Supervisor

Jeff Gurule

From: David_Kelly@fws.gov
Sent: Wednesday, November 12, 2008 7:59 AM
To: Jeff Gurule
Cc: Elizabeth_Warne@fws.gov; Josh_Hull@fws.gov
Subject: Re: Branchiopod Survey Data Sheet
Attachments: Data Sheet Template.xls

Jeff, the data sheet that you presented contains the information that we required in the protocol for the VPb surveys. You are authorized to use this survey form until otherwise notified. Thank you.

David Lee Kelly
Fish and Wildlife Biologist
Recovery Branch
US Fish and Wildlife Service
2800 Cottage Way
Sacramento, CA 95825
Ph. (916) 414-6492

Jeff Gurule <jgurule@loainc.com>

11/11/2008 04:38 PM

To <David_Kelly@fws.gov>
cc
Subject Branchiopod Survey Data Sheet

Hi David,

Last rainy season Live Oak Associates, Inc. conducted branchiopod surveys on three properties in Fresno County with numerous vernal pools on each (the largest containing 92 pools); this resulted in numerous data sheets (over a 1,000 pages of data sheets) submitted with our 90-day reports. Not only were these data sheets difficult to organize and proof, PDF's of the final reports were so huge it was difficult to email them with the data sheets attached. I believe that you expressed interest, yourself, in having us utilize an abbreviated data sheet for ease of handling and reviewing after seeing how many data sheets we had amassed in those surveys.

So, as Live Oak has authorization to conduct 2nd year surveys on properties we surveyed last year, plus additional properties not surveyed last year, I have created an EXCEL template to serve as our data sheet for all surveys conducted this year. I am submitting this template for your approval. I believe using this data sheet will greatly increase efficiency, present the data in a more useful format, and greatly reduce the potential for error.

I have included an explanation of codes that would be used in the Surveyors and Habitat Condition/Land Use columns. This explanation of codes would ultimately be located at the bottom of the EXCEL sheet.

I hope this is acceptable to you or that you have some suggestions on how to further simplify it. I hope to here back from you soon, as weather conditions may necessitate initiation of surveys soon.

Thanks,

Jeff Gurule
Project Manager
Wildlife/Wetland/Plant Ecologist

APPENDIX B:
2009/2010 WET SEASON SURVEY DATA

U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Protocol Survey 2009/2010
Panoche Valley Solar Farm (1297-06), San Benito County, Cerro Colorado, Mercey Hot Springs, Llanada, & Panoche Quads, Township: 15S, Range: 10E & 11E

Fairy Shrimp ID Sheet 2009/2010
Panoche Valley Solar Farm (1297-06)

Pool #	Surveyers*	Date	Time (24hr)	Water Temp	Air Temp	Depth (cm)	Length (m)	Width (m)	Habitat Conditions/ Land Use*	Number of Shrimp in Pool	Number, Sex, Genus Collected	Notes	Number, Sex, Species IDed	Listed Species (x)	Date Identified	Identified By
1	JG, AP	12/21/09	854	9.0	11.0	7	2.0	1.0	CGH		0	trough pud.				
2	JG, AP	12/21/09	915	9.5	11.0	7	3.0	2.0	CGH		0					
3	JG, AP	12/21/09	931	9.0	11.0	7	3.0	2.0	CGH		0	road				
4	JG, AP	12/21/09	933	9.0	11.0	4	1.5	1.0	CGH		0	road				
5	JG, AP	12/21/09	935	8.5	11.0	11	8.0	2.0	CGH		0	vp				
6	JG, AP	12/21/09	942	9.5	11.0	3	2.0	0.5	CGH		0	rd				
7	JG, AP	12/21/09	947	10.0	11.0	3	2.0	1.0	CGH		0	rd				
8	JG, AP	12/21/09	1017	10.0	11.0	12	25.0	2.0	CGH		0	water tank pot. peren. pool				
9	JG, AP	12/21/09	1020	10.0	11.0	15	4.0	4.0	CGH		0	trough pud.				
10	JG, AP	12/21/09	1031	9.5	11.0	15	4.0	2.0	CGH		0	rd				
11	JG, AP	12/21/09	1037	10.0	11.0	7	2.0	1.0	CGH		0					
12	JG, AP	12/21/09	1040	11.0	11.0	4	0.5	0.5	CGH		0	burm pond				
13	JG, AP	12/21/09	1042	11.0	11.0	5	6.0	3.0	CGH		0					
14	JG, AP	12/21/09	1058	11.5	11.0	10	3.0	2.0	CGH		0	trough pud				
15	JG, AP	12/21/09	1100	12.5	11.0	6	3.0	2.0	CGH		0					
16	JG, AP	12/21/09	1115	11.0	11.0	20	9.0	3.0	CGH		0	burm pond				
17	JG, AP	12/21/09	1122	12.5	11.0	7	4.0	2.0	CGH		0	trough pond				
18	JG, AP	12/21/09	1132	11.5	11.0	10	40.0	2.0	CGH		0					
19	JG, AP	12/21/09	1138	11.0	11.0	7	2.0	1.0	CGH		0					
20	JG, AP	12/21/09	1143	12.5	11.0	6	1.0	0.5	CGH		0					
21	JG, AP	12/21/09	1148	10.0	11.0	20	3.0	1.0	CGH		0					
22	JG, AP	12/21/09	1232	12.5	11.0	10	1.0	0.5	CGH		0					
23	JG, AP	12/21/09	1234	12.5	11.0	15	8.0	1.0	CGH		0					
24	JG, AP	12/21/09	1244	12.0	11.0	21	3.0	2.0	CGH		0					
25	JG, AP	12/21/09	1246	13.0	11.0	10	2.0	1.0	CGH		0					
26	JG, AP	12/21/09	1249	13.0	11.0	14	1.0	0.5	CGH		0					
27	JG, AP	12/21/09	1257	12.5	11.0	12	7.0	2.0	CGH		0	trough pud.				
28	JG, AP	12/21/09	1306	13.5	11.0	8	1.0	0.5	CGH		0	rd				
29	JG, AP	12/21/09	1332	13.0	11.0	10	5.0	2.0	CGH		0	trough pond				
30	JG, AP	12/21/09	1339	13.0	11.0	11	1.5	1,5	CGH		0					
31	JG, AP	12/21/09	1430	13.5	11.0	6	2.0	1.0	CGH		0	trough pud				
32	JG, AP	12/21/09	1451	14.0	11.0	7	4.0	2.0	CGH		0					
33	JG, AP	12/21/09	1453	13.0	11.0	14	13.0	4.0	CGH		0					
34	JG, AP	12/21/09	1502	13.5	11.0	13	6.0	5.0	CGH		0					
35	JG, AP	12/21/09	1550	13.0	11.0	11	3.0	2.0	CGH		0	trough pud				
1	JG, GC	1/4/10	1124	14.0	11.0	7	5.0	2.0	CGH		0	trough pud				
2	JG, GC	1/4/10	1137	14.0	11.0	3	1.0	1.0	CGH		0					
3	JG, GC	1/4/10	1149	14.0	11.0	8	4.0	2.0	CGH		0	rd				
4	JG, GC	1/4/10	1150	15.0	11.0	4	2.0	1.5	CGH		0	rd				
5	JG, GC	1/4/10	1157	15.0	11.0	10	7.5	2.0	CGH		0	vp				
6	JG, GC	1/4/10	1205	15.5	11.0	6	5.5	1.0	CGH		0	rd				
7	JG, GC	1/4/10	1219	17.0	11.0	3	4.0	2.0	CGH		0	rd side				
8	JG, GC	1/4/10	1430	16.5	11.0	12	45.0	5.0	CGH		0	water tank pot. peren. pool				
9	JG, GC	1/4/10	1426	16.5	11.0	15	6.0	5.0	CGH		0	trough pud				
10	JG, GC	1/4/10	1346	15.0	11.0	12	4.0	2.0	CGH		0	rd				
11	JG, GC	1/4/10	1403	15.5	11.0	6	1.0	0.5	CGH		0					
12	JG, GC	1/4/10	1412			0			CGH		0					
13	JG, GC	1/4/10	1412	13.0	11.0	4	7.0	3.0	CGH		0	Hoof pocks				
14	JG, GC	1/4/10	1444	17.5	11.0	9	4.5	2.0	CGH		0	trough pud				
15	JG, GC	1/4/10	1447	16.0	11.0	7	4.0	2.0	CGH		0					
16	JG, GC	1/4/10	1454	16.5	11.0	19	9.5	4.0	CGH		0	burm pond				
17	JG, GC	1/4/10	1500	13.5	11.0	9	5.5	2.0	CGH		0	trough pond				
18	JG, GC	1/4/10	1510	16.0	11.0	13	42.5	2.0	CGH		0					
19	JG, GC	1/4/10	1524	13.0	11.0	7	1.5	1.5	CGH		0					

20	JG, GC	1/4/10	1520	15.0	11.0	5	4.0	2.0	CGH		0	rd side				
21	JG, GC	1/4/10	1528	14.5	9.0	18	4.0	1.0	CGH		0	rd side				
22	JG, GC	1/4/10	1540	13.5	9.0	5	1.0	0.5	CGH		0					
23	JG, GC	1/4/10	1541	15.0	9.0	7	8.0	1.0	CGH		0					
24	JG, GC	1/4/10	1557	14.5	9.0	15	5.0	2.0	CGH		0					
25	JG, GC	1/4/10	1557	11.5	9.0	7	3.0	1.5	CGH		0					
26	JG, GC	1/4/10	1601	11.5	9.0	5	4.5	1.0	CGH		0					
27	JG, GC	1/4/10	1607	13.0	9.0	14	8.0	7.0	CGH		0	trough pud				
28	JG, GC	1/4/10	1607			0			CGH		0	Dry				
36	JG, GC	1/4/10	1202	16.0	11.0	6	7.0	2.0	CGH		0	rd				
37	JG, GC	1/4/10	1207	15.0	11.0	5	6.0	2.0	CGH		0	rd				
38	JG, GC	1/4/10	1211	16.0	11.0	5	3.0	1.3	CGH		0	rd side				
39	JG, GC	1/4/10	1330	17.0	11.0	7	15.0	1.5	CGH		0	rd side				
40	JG, GC	1/4/10	1358	16.0	11.0	5	2.0	1.0	CGH		0	rd				
41	JG, GC	1/4/10	1400	17.0	11.0	4	4.0	2.0	CGH		0	rd				
42	JG, GC	1/4/10	1406	16.5	11.0	7	7.0	1.0	CGH		0	rd				
44	JG, GC	1/4/10	1538	14.0	9.0	5	2.0	0.5	CGH		0	rd				
45	JG, GC	1/4/10	1520	15.0	9.0	13	15.0	2.0	CGH		0					
28	JG, GC	1/5/10	1144	12.5	10.0	5	1.0	0.5	CGH		0	rd				
29	JG, GC	1/5/10	1121	8.0	10.0	10	5.5	3.0	CGH		0	trough pud				
30	JG, GC	1/5/10	1130	12.0	10.0	10	2.0	2.0	CGH		0					
31	JG, GC	1/5/10	1210	12.5	10.0	6	2.0	1.5	CGH		0	trough pud				
32	JG, GC	1/5/10	1254	14.0	14.0	4	2.0	0.5	CGH		0					
33	JG, GC	1/5/10	1259	16.0	14.0	14	16.0	3.0	CGH		0					
34	JG, GC	1/5/10	1315	15.0	14.0	15	8.0	5.0	CGH		0					
35	JG, GC	1/5/10	1403	16.0	14.0	13	4.5	4.0	CGH		0	trough pud				
46	JG, GC	1/5/10	1109	11.0	10.0	6	6.0	1.5	TT		0	rd				
47	JG, GC	1/5/10	1139	10.5	10.0	13	2.5	2.0	TT		0	rd				
48	JG, GC	1/5/10	1154	13.5	10.0	7	18.0	4.0	CGH		0	trough pud				
1	JG, GC	1/18/10	1214	9.5	9	8	18	13	CGH		0	trough pud				
2	JG, GC	1/18/10	1224	9.5	9	20	10	5	CGH		0					
3	JG, GC	1/18/10	1251	9.5	9	12	5	3	CGH		0	3,4.46 1 way flow connection				
4	JG, GC	1/18/10	1253	9.5	9	5	2.5	2.5	CGH		0	3,4.46 1 way flow connection				
5	JG, GC	1/18/10	1256	9.5	9	20	28	5	CGH		0	5,36,37 1 way flow connection				
7	JG, GC	1/18/10	1312	9.5	9	10	20	3.5	CGH		0					
8	JG, GC	1/18/10	1416	9.5	9	10	32	4	CGH		0					
9	JG, GC	1/18/10	1418	9.5	9	20	6.5	5.5	CGH		0					
10	JG, GC	1/18/10	1349	9.5	9	20	15	3	CGH		0					
11	JG, GC	1/18/10	1359	9.5	9	14	13	11	CGH		0					
12	JG, GC	1/18/10	1403	9.5	9	14	10	8	CGH		0					
13	JG, GC	1/18/10	1405	9.5	9	18	35	13	CGH		0					
14	JG, GC	1/18/10	1429	9.5	9	18	9	6	CGH		0					
15	JG, GC	1/18/10	1431	9.5	9	10	12	11	CGH		0					
16	JG, GC	1/18/10	1440	9.5	9	40	20	14	CGH		0					
17	JG, GC	1/18/10	1447	9.5	9	8	5	3	CGH		0					
18	JG, GC	1/18/10	1515	9.5	9	17	180	5	CGH		0					
19	JG, GC	1/18/10	1458	9.5	9	15	23	7	CGH		0					
20	JG, GC	1/18/10	1508	9.5	9	10	32	7	CGH		0					
21	JG, GC	1/18/10	1500	9.5	9	25	125	3	CGH		0					
37	JG, GC	1/18/10	1259	9.5	9	12	29	3	CGH		0	5,36,37 1 way flow connection				
38	JG, GC	1/18/10	1308	9.5	9	8	12	2	CGH		0					
39	JG, GC	1/18/10	1333	9.5	9	20	23	9	CGH		0					
40	JG, GC	1/18/10	1354	9.5	9	17	7.5	3	CGH		0					
41	JG, GC	1/18/10	1355	9.5	9	9	11	5	CGH		0					
42	JG, GC	1/18/10	1358	9.5	9	14	10	1	CGH		0					
46	JG, GC	1/18/10	1255	9.5	9	20	11	4	CGH		0	3,4.46 1 way flow connection				
36,6	JG, GC	1/18/10	1257	9.5	9	14	33	5	CGH		0	pools connected				
22	JG, GC	1/19/10	932	7	7	10	3	1	CGH		0					
23	JG, GC	1/19/10	933	7	7	15	11	2	CGH		0					

26	JG, GC	1/19/10	945	7	7	14	17	3	CGH		0					
27	JG, GC	1/19/10	953	7	7	27	15	15	CGH		0					
28	JG, GC	1/19/10	1030	7	7	15	9	4	CGH		0					
29	JG, GC	1/19/10	1142	7	7	14	7	4	CGH		0					
30	JG, GC	1/19/10	1129	7	7	25	3	3	CGH		0					
31	JG, GC	1/19/10	1050	7	7	15	4	4	CGH		0					
32	JG, GC	1/19/10	1113	7	7	34	9	4.5	CGH		0					
33	JG, GC	1/19/10	1115	7	7	35	29	8	CGH		0					
34	JG, GC	1/19/10	1105	7	7	39	13	9	CGH		0					
35	JG, GC	1/19/10	1225	7	7	17	5.5	4.5	CGH		0					
44	JG, GC	1/19/10	929	7	7	10	3	1	CGH		0					
45	JG, GC	1/19/10	936	7	7	19	20	2.5	CGH		0					
47	JG, GC	1/19/10	1029	7	7	19	4.5	4	CGH		0					
48	JG, GC	1/19/10	1037	7	7	10	4	4	CGH		0					
24,25	JG, GC	1/19/10	940	7	7	27	33	2.5	CGH		0	two pools connected				
1	JG, GC	2/1/10	1232	17	17	6	1.5	1.5	CGH		0					
2	JG, GC	2/1/10	1242	12	17	25	7	4	CGH		0					
3	JG, GC	2/1/10	1259	17	17	10	5	3	CGH		0					
4	JG, GC	2/1/10	1258	17	17	5	2.5	2	CGH		0					
5	JG, GC	2/1/10	1304	15	17	20	9	4.5	CGH		0					
6	JG, GC	2/1/10	1310	16.5	17	8	9	1.5	CGH		0					
7	JG, GC	2/1/10	1314	17	17	8	13	3	CGH		0					
8	JG, GC	2/1/10	1417	14	15	12	45	3	CGH		0					
9	JG, GC	2/1/10	1418	13	15	19	7.5	6	CGH		0					
10	JG, GC	2/1/10	1711	12.5	14	16	8	3	CGH		0					
11	JG, GC	2/1/10	1441	14.5	14	13	8	6	CGH		0					
12	JG, GC	2/1/10	1434	11.5	15	30	16	10	CGH		0					
13	JG, GC	2/1/10	1435	16	15	14	35	16	CGH		0					
14	JG, GC	2/1/10	1357	17.5	17	9	10	5.5	CGH		0					
15	JG, GC	2/1/10	1356	13	17	15	6	4.5	CGH		0					
16	JG, GC	2/1/10	1450	14	14	40	23	16	CGH		0					
17	JG, GC	2/1/10	1454	15	14	8	4	2	CGH		0					
18	JG, GC	2/1/10	1501	15.5	14	19	60	3	CGH		0					
19	JG, GC	2/1/10	1510	15	14	9	3	3	CGH		0					
20	JG, GC	2/1/10	1505	16	14	9	5	3	CGH		0					
21	JG, GC	2/1/10	1516	14	14	26	15	1.5	CGH		0					
22	JG, GC	2/1/10	1604	14.5	14	6	2	1	CGH		0					
23	JG, GC	2/1/10	1606	15	14	15	8	1	CGH		0					
26	JG, GC	2/1/10	1628	11	14	33	24	3	CGH		0					
27	JG, GC	2/1/10	1651	14	14	16	9	8	CGH		0					
36	JG, GC	2/1/10	1303	16.5	17	7	13	4.5	CGH		0					
37	JG, GC	2/1/10	1308	16.5	17	8	13	2.5	CGH		0					
38	JG, GC	2/1/10	1312	17	17	10	6	2	CGH		0					
39	JG, GC	2/1/10	1346	15.5	17	15	21	2.5	CGH		0					
40	JG, GC	2/1/10	1701	13	14	13	2	2	CGH		0					
41	JG, GC	2/1/10	1700	13.5	14	9	6	4.5	CGH		0					
42	JG, GC	2/1/10	1439	16	14	7	8	2	CGH		0					
43	JG, GC	2/1/10	1407	16	15	7	2	2	CGH		0	rd				
44	JG, GC	2/1/10	1556	14	14	6	1.5	0.5	CGH		0					
45	JG, GC	2/1/10	1607	15	14	13	16	2.5	CGH		0					
46	JG, GC	2/1/10	1256	16.5	17	8	8	2	CGH		0					
49	JG, GC	2/1/10	1251	16	17	10	4	0.5	CGH		0	rd				
50	JG, GC	2/1/10	1254	16	17	6	1.5	1.5	CGH		0	rd				
51	JG, GC	2/1/10	1316	16.5	17	5	4	2.5	CGH		0	rd				
52	JG, GC	2/1/10	1327	16.5	17	5	2	1.5	CGH		0	rd				
53	JG, GC	2/1/10	1339	16.5	17	8	3	2	CGH		0	rd				
54	JG, GC	2/1/10	1340	17	17	4	4	1	CGH		0	rd				
55	JG, GC	2/1/10	1342	18	17	5	2	1.5	CGH		0					
56	JG, GC	2/1/10	1405	16.5	15	6	1.5	1	CGH		0	rd				

57	JG, GC	2/1/10	1409	16	15	6	2	2	CGH		0	rd				
58	JG, GC	2/1/10	1427	16	15	9	6	1.5	CGH		0					
59	JG, GC	2/1/10	1459	16	14	9	4	2	CGH		0					
60	JG, GC	2/1/10	1520	16	14	70	32	24	CGH		6	collected unk invert				
61	JG, GC	2/1/10	1540	16	14	9	3	1	CGH		0					
62	JG, GC	2/1/10	1554	16	14	10	3.5	1	CGH		0					
63	JG, GC	2/1/10	1558	14.5	14	22	16	2	CGH		0					
64	JG, GC	2/1/10	1609	15	14	8	17	2.5	CGH		0					
65	JG, GC	2/1/10	1612	13	14	70+	73	35	CGH		0					
66	JG, GC	2/1/10	1616	14.5	14	11	2.5	2	CGH		0					
67	JG, GC	2/1/10	1621	14.5	14	9	14	0.25	CGH		0					
68	JG, GC	2/1/10	1630	14.5	14	9	14	2.5	CGH		0					
69	JG, GC	2/1/10	1634	12.5	14	23	27	21	CGH		0					
70	JG, GC	2/1/10	1636	14.5	14	9	9	2	CGH		0					
71	JG, GC	2/1/10	1645	12	14	25	82	3	CGH		0					
72	JG, GC	2/1/10	1647	13	14	33	59	6	CGH		0					
73	JG, GC	2/1/10	1439	13	14	6	3	2	CGH		0					
74	JG, GC	2/1/10	1703	13	14	7	5	2	CGH		0	rd				
75	JG, GC	2/1/10	1705	13	14	8	4	3	CGH		0	rd				
76	JG, GC	2/1/10	1707	13.5	14	6	3	1	CGH		0	rd				
77	JG, GC	2/1/10	1709	14	14	9	2	2	CGH		0	rd				
24,25	JG, GC	2/1/10	1626	13.5	14	30	38	3	CGH		0	combo				
28	JG, GC	2/2/10	1439	18	18	9	3	3	CGH		0					
29	JG, GC	2/2/10	1448	13.5	18	13	6.5	4	CGH		0					
30	JG, GC	2/2/10	1350	11	18	31	3	3	CGH		0					
31	JG, GC	2/2/10	1420	17	18	15	3	2	CGH		0					
32	JG, GC	2/2/10	1220	14	18	17	7	4	CGH		0					
33	JG, GC	2/2/10	1222	9	18	55	31	8	CGH		0					
34	JG, GC	2/2/10	1330	14	18	30	13	7	CGH		0					
35	JG, GC	2/2/10	1520	17.5	18	11	4	4	CGH		0					
47	JG, GC	2/2/10	1438	16	18	13	2.5	2	CGH		0					
48	JG, GC	2/2/10	1429	16	18	7	3	2	CGH		0					
78	JG, GC	2/2/10	1026	11.5	18	8	2.5	2	CGH		0					
79	JG, GC	2/2/10	1129	14.5	18	10	3	1	CGH		0					
80	JG, GC	2/2/10	1134	9.5	18	55	20	5	CGH		0					
81	JG, GC	2/2/10	1137	11.5	18	8	6	2.5	CGH		0					
82	JG, GC	2/2/10	1143	18	18	5	3	1	CGH		0					
83	JG, GC	2/2/10	1145	17.5	18	6	3	1	CGH		0					
84	JG, GC	2/2/10	1147	15	18	14	1.5	2	CGH		0					
85	JG, GC	2/2/10	1156	14.5	18	20	30	2.5	CGH		0					
86	JG, GC	2/2/10	1201	15	18	17	12	2.5	CGH		0					
87	JG, GC	2/2/10	1211	17.5	18	9	1.5	1.5	CGH		0					
88	JG, GC	2/2/10	1213	12	18	47	8	5.5	CGH		0					
89	JG, GC	2/2/10	1216	13.5	18	30	13.5	4	CGH		0					
90	JG, GC	2/2/10	1302	16	18	25	30	12	CGH		0					
91	JG, GC	2/2/10	1337	19	18	10	3	1.5	CGH		0					
92	JG, GC	2/2/10	1400	17.5	18	11	10	7	CGH		0	trough pud				
93	JG, GC	2/2/10	1409	16	18	9	4	4	CGH		0	trough pud				
94	JG, GC	2/2/10	1419	19	18	9	1.5	1	CGH		0					
95	JG, GC	2/2/10	1445	18.5	18	7	16	0.5	CGH		0					
96	JG, GC	2/2/10	1026	14	18	13	4	4	CGH		0	trough pud				
2	JG, GC	2/16/10	1453	16.5	18.5	30	9.5	5	CGH		0					
3	JG, GC	2/16/10	1537	19	18.5	9	4	2.5	CGH		0					
4	JG, GC	2/16/10	1538	20	18.5	4	2	1.5	CGH		0					
5	JG, GC	2/16/10	1535	20.5	18.5	21	10	4	CGH		0					
6	JG, GC	2/16/10	1531	20	18.5	7	5	1.5	CGH		0					
7	JG, GC	2/16/10	1527	21	18.5	5	5	2.5	CGH		0					
8	JG, GC	2/16/10	1627	16	18.5	12	45	2.5	CGH		0					
9	JG, GC	2/16/10	1629	17	18.5	19	7	7	CGH		0					

10	JG, GC	2/16/10	1547	17	18.5	17	6	2.5	CGH		0					
11	JG, GC	2/16/10	1611	15	18.5	19	8	6	CGH		0					
12	JG, GC	2/16/10	1617	18	18.5	33	17	15	CGH		0					
13	JG, GC	2/16/10	1615	20	18.5	18	38	19	CGH		0					
14	JG, GC	2/16/10	1640	16	18.5	18	6	5	CGH		0					
15	JG, GC	2/16/10	1642	19	18.5	9	6.5	9	CGH		0					
16	JG, GC	2/16/10	1651	18	18.5	40	24.5	17	CGH		0					
17	JG, GC	2/16/10	1655	14.5	18.5	6	3	1	CGH		0					
36	JG, GC	2/16/10	1534	20	18.5	11	6	3	CGH		0					
37	JG, GC	2/16/10	1533	20	18.5	11	6	2	CGH		0					
38	JG, GC	2/16/10	1529	18.5	18.5	5	3	1.5	CGH		0					
39	JG, GC	2/16/10	1517	21.5	18.5	10	21	3	CGH		0					
40	JG, GC	2/16/10	1604	19	18.5	11	1.5	1	CGH		0					
41	JG, GC	2/16/10	1606	19	18.5	6	4	4	CGH		0					
42	JG, GC	2/16/10	1609	17.5	18.5	5	2	1	CGH		0					
46	JG, GC	2/16/10	1539	20	18.5	7	5	2	CGH		0					
49	JG, GC	2/16/10	1444	20.5	18.5	6	2	0.25	CGH		0					
53	JG, GC	2/16/10	1505	18.5	18.5	7	2.5	2	CGH		0					
54	JG, GC	2/16/10	1507	20	18.5	4	3	1	CGH		0					
55	JG, GC	2/16/10	1514	21	18.5	4	2	1.5	CGH		0					
58	JG, GC	2/16/10	1621	18	18.5	6	3	0.75	CGH		0					
74	JG, GC	2/16/10	1555	20	18.5	7	5	2.5	CGH		0					
75	JG, GC	2/16/10	1551	19.5	18.5	7	4	2	CGH		0					
76	JG, GC	2/16/10	1549	19	18.5	4	2.5	0.75	CGH		0					
78	JG, GC	2/16/10	1353	21	18.5	10	2.5	2	CGH		0					
79	JG, GC	2/16/10	1421	20	18.5	15	5	1.5	CGH		0					
97	JG, GC	2/16/10	1419	22	18.5	6	1.5	0.5	CGH		0					
98	JG, GC	2/16/10	1422	22.5	18.5	5	3	0.5	CGH		0					
99	JG, GC	2/16/10	1425	22.5	18.5	9	4	1	CGH		0					
100	JG, GC	2/16/10	1510	20	18.5	9	2.5	2	CGH		0					
101	JG, GC	2/16/10	1553	20	18.5	5	6.5	1	CGH		0					
18	JG, GC	2/17/10	1112	16	19	13	52	4	CGH		0					
19	JG, GC	2/17/10	1125	16	19	14	3	3	CGH		0					
20	JG, GC	2/17/10	1120	19	19	9	4	3	CGH		0					
21	JG, GC	2/17/10	1128	13.5	19	23	9.5	2	CGH		0	collected unk invert				
22	JG, GC	2/17/10	1208	20	19	11	1.5	0.75	CGH		0					
23	JG, GC	2/17/10	1210	20.5	19	11	7	1.5	CGH		0					
26	JG, GC	2/17/10	1231	12.5	19	33	25	5	CGH		0					
27	JG, GC	2/17/10	1248	21	19	7	9	6	CGH		0					
28	JG, GC	2/17/10	1500	21	19	8	3	2	CGH		0					
29	JG, GC	2/17/10	1455	17	19	11	6.5	4.5	CGH		0					
30	JG, GC	2/17/10	1635	13	19	33	3.5	3.5	CGH		0					
31	JG, GC	2/17/10	1518	22	19	5	2	1	CGH		0					
32	JG, GC	2/17/10	1618	22	19	19	7	3	CGH		0					
33	JG, GC	2/17/10	1620	13.5	19	51	31	9	CGH		0					
34	JG, GC	2/17/10	1630	16	19	31	14	9	CGH		0					
44	JG, GC	2/17/10	1205	20	19	9	2	0.33	CGH		0					
45	JG, GC	2/17/10	1212	21	19	12	17	3.5	CGH		0					
47	JG, GC	2/17/10	1501	20.5	19	12	3	3	CGH		0					
48	JG, GC	2/17/10	1510	21.5	19	8	4	2	CGH		0					
59	JG, GC	2/17/10	1103	17.5	19	9	5	2	CGH		0					
60	JG, GC	2/17/10	1145	12.5	19	70+	31	26	CGH		0					
62	JG, GC	2/17/10	1202	19.5	19	11	5	1.5	CGH		0					
63	JG, GC	2/17/10	1203	17	19	27	19	2.5	CGH		0					
64	JG, GC	2/17/10	1214	21	19	7	10	2	CGH		0					
65	JG, GC	2/17/10	1217	17.5	19	70+	75	36	CGH		0	unk invert				
66	JG, GC	2/17/10	1226	16.5	19	15	4	2	CGH		0					
68	JG, GC	2/17/10	1233	20	19	7	14	2.5	CGH		0					
69	JG, GC	2/17/10	1237	16.5	19	14	25	19	CGH		0					

70	JG, GC	2/17/10	1235	21.5	19	7	6	1.5	CGH		0					
71	JG, GC	2/17/10	1240	17	19	26	80	4	CGH		0					
72	JG, GC	2/17/10	1245	13.5	19	36	56	5	CGH		0					
73	JG, GC	2/17/10	1250	21	19	4	1	1	CGH		0					
80	JG, GC	2/17/10	1532	14.5	19	43	17	5	CGH		0					
81	JG, GC	2/17/10	1534	22	19	15	12	4	CGH		0					
82	JG, GC	2/17/10	1538	23.5	19	8	5	1.5	CGH		0					
83	JG, GC	2/17/10	1540	23.5	19	8	5.5	1.5	CGH		0					
84	JG, GC	2/17/10	1542	22.5	19	13	17	2	CGH		0					
85	JG, GC	2/17/10	1550	20	19	19	24	2.5	CGH		0					
86	JG, GC	2/17/10	1610	20	19	17	12	2	CGH		0					
88	JG, GC	2/17/10	1615	15.5	19	44	8	6	CGH		0					
89	JG, GC	2/17/10	1617	19.5	19	21	12	5	CGH		0					
90	JG, GC	2/17/10	1626	22.5	19	22	30	12	CGH		0					
92	JG, GC	2/17/10	1643	18	19	13	12	7	CGH		0					
93	JG, GC	2/17/10	1523	21	19	7	4	3	CGH		0					
96	JG, GC	2/17/10	1444	18	19	17	6	5	CGH		0					
102	JG, GC	2/17/10	1200	25	19	4	6	1	CGH		0					
24,25	JG, GC	2/17/10	1228	12	19	30	39	3	CGH		0					
1	JG, AP	3/2/10	1238	14	12	6	1	1			0					
2	JG, AP	3/2/10	1246	13	12	34	7	3			0					
3	JG, AP	3/2/10	1311	14	12	11	4	3			0					
4	JG, AP	3/2/10	1308	14	12	5	1.5	1			0					
5	JG, AP	3/2/10	1314	13.5	12	25	9	4			0					
6	JG, AP	3/2/10	1319	14	12	9	5	1			0					
7	JG, AP	3/2/10	1410	15.5	12	8	11	2			0					
8	JG, AP	3/2/10	1518	15	12	16	19	2			0					
9	JG, AP	3/2/10	1520	14	12	20	5	4			0					
10	JG, AP	3/2/10	1426	15	12	20	7	2			0					
11	JG, AP	3/2/10	1448	15	12	22	7	6			0					
12	JG, AP	3/2/10	1450	13	12	35	4	8			0					
13	JG, AP	3/2/10	1453	14	12	18	32	9			0					
14	JG, AP	3/2/10	1553	13.5	12	18	5	4			0					
15	JG, AP	3/2/10	1551	15	12	10	7	6			0					
16	JG, AP	3/2/10	1604	13	12	57	23	21			0	1 cts larva				
17	JG, AP	3/2/10	1418	13.5	12	8	3	1			0					
36	JG, AP	3/2/10	1316	14	12	9	7	2			0					
37	JG, AP	3/2/10	1318	14	12	6	9	2			0					
38	JG, AP	3/2/10	1413	15.5	12	12	3	2			0					
39	JG, AP	3/2/10	1358	15	12	16	18	4			0					
40	JG, AP	3/2/10	1442	15	12	16	2	2			0					
41	JG, AP	3/2/10	1444	15	12	12	3	2			0					
42	JG, AP	3/2/10	1446	15	12	9	7	1			0					
43	JG, AP	3/2/10	1529	14	12	7	2	1			0					
46	JG, AP	3/2/10	1304	14	12	8	6	1			0					
49	JG, AP	3/2/10	1212	13.5	12	17	18	1			0					
50	JG, AP	3/2/10	1218	13.5	12	7	4	0.5			0					
51	JG, AP	3/2/10	1412	16.5	12	3	1.5	1.1			0					
52	JG, AP	3/2/10	1344	16	12	6	2	2			0					
53	JG, AP	3/2/10	1346	17	12	10	4	3			0					
54	JG, AP	3/2/10	1348	17.5	12	8	6	1			0					
55	JG, AP	3/2/10	1354	17	12	10	5	2			0					
56	JG, AP	3/2/10	1533	14	12	6	2	0.5			0					
57	JG, AP	3/2/10	1501	15	12	7	3	2			0					
58	JG, AP	3/2/10	1458	14.5	12	9	5	1			0					
74	JG, AP	3/2/10	1438	15	12	10	5	2			0					
75	JG, AP	3/2/10	1432	15.5	12	9	4	2			0					
76	JG, AP	3/2/10	1429	15	12	6	3	1			0					
77	JG, AP	3/2/10	1430	15	12	10	1	1			0					

100	JG, AP	3/2/10	1353	16.5	12	11	2	2			0					
101	JG, AP	3/2/10	1434	15.5	12	7	7	2			0					
103	JG, AP	3/2/10	1230	14	12	10	2	1	cgh		0	rd				
104	JG, AP	3/2/10	1403	16	12	9	4	4	cgh		0					
105	JG, AP	3/2/10	1421	15	12	10	14	8	cgh		0					
106	JG, AP	3/2/10	1441	15	12	9	4	1.5			0	rd				
18	JG, AP	3/3/10	1359	11.5	10	25	44	1.5			0					
19	JG, AP	3/3/10	1410	11	10	18	5	1			0					
20	JG, AP	3/3/10	1406	12	10	10	4	3			0					
21	JG, AP	3/3/10	1414	11	10	33	15	1			0					
26	JG, AP	3/3/10	1520	11	10	41	22	2			0					
27	JG, AP	3/3/10	1552	13.5	10	17	8	4			0					
28	JG, AP	3/3/10	1211	12	10	12	3	2			0					
29	JG, AP	3/3/10	1224	12	10	12	5	2			0					
30	JG, AP	3/3/10	1134	10	10	37	3	3			0					
31	JG, AP	3/3/10	1155	10	10	8	2	1			0					
32	JG, AP	3/3/10	1056	9	10	20	6	3			0					
33	JG, AP	3/3/10	1101	9.5	10	50+	30	8			0					
34	JG, AP	3/3/10	1125	9.5	10	40	11	4			0					
35	JG, AP	3/3/10	1330	13	10	4	3	1			0					
44	JG, AP	3/3/10	1454	12	10	11	2	0.5			0					
47	JG, AP	3/3/10	1209	10	10	18	3	2			0					
59	JG, AP	3/3/10	1356	12.5	10	13	11	5			0					
60	JG, AP	3/3/10	1420	10	10	50+	29	y			0					
61	JG, AP	3/3/10	1428	11	10	14	3	1			0					
62	JG, AP	3/3/10	1448	12.5	10	20	4	1			0					
63	JG, AP	3/3/10	1452	11.5	10	31	18	2			0					
66	JG, AP	3/3/10	1511	12.5	10	18	3	1			0					
67	JG, AP	3/3/10	1506	12	10	6	7	0.5			0					
68	JG, AP	3/3/10	1523	14	10	13	12	2			0					
69	JG, AP	3/3/10	1526	11.5	10	45	37	20			0					
70	JG, AP	3/3/10	1530	14	10	11	9	1			0					
71	JG, AP	3/3/10	1534	11	10	32	72	2			0					
72	JG, AP	3/3/10	1540	11	10	43	55	4			0					
73	JG, AP	3/3/10	1554	13.5	10	14	3	2			0					
78	JG, AP	3/3/10	903	7.5	10	13	2	2			0					
79	JG, AP	3/3/10	952	9	10	20	5	1			0					
80	JG, AP	3/3/10	1013	9	10	49	16	4			0					
81	JG, AP	3/3/10	1017	9	10	22	10	3			0					
82	JG, AP	3/3/10	1022	10	10	11	6	1			0					
83	JG, AP	3/3/10	1027	10	10	14	5	1			0					
84	JG, AP	3/3/10	1028	10	10	23	16	2			0					
85	JG, AP	3/3/10	1036	9.5	10	34	34	3			0					
86	JG, AP	3/3/10	1041	9.5	10	30	23	2			0					
88	JG, AP	3/3/10	1045	8.5	10	47	7	5			0					
89	JG, AP	3/3/10	1054	9	10	33	17	4			0					
90	JG, AP	3/3/10	1115	9.5	10	30	30	7			0					
91	JG, AP	3/3/10	1129	10	10	14	3	1			0					
92	JG, AP	3/3/10	1215	12	10	5	3	2			0					
93	y	3/3/10	1150	10	10	12	3	2			0					
94	JG, AP	3/3/10	1156	10	10	9	1	1			0					
95	JG, AP	3/3/10	1220	12.5	10	12	17	1			0					
96	JG, AP	3/3/10	1333	12.5	10	16	4	4			0					
97	JG, AP	3/3/10	950	9	10	13	3	1			0					
98	JG, AP	3/3/10	954	9	10	12	16	1			0					
99	JG, AP	3/3/10	957	9	10	18	19	0.5			0					
102	JG, AP	3/3/10	1432	12	10	11	5	1			0					
107	JG, AP	3/3/10	924	8.5	10	10	4	1	cgh		0	swale				
108	JG, AP	3/3/10	926	8.5	10	13	3	0.5	cgh		0	swale				

109	JG, AP	3/3/10	929	9	10	12	3	1	cgh		0	swale				
110	JG, AP	3/3/10	931	8.5	10	19	9	1	cgh		0	swale				
111	JG, AP	3/3/10	934	9	10	15	11	1	cgh		0	swale				
112	JG, AP	3/3/10	936	9	10	16	8	1	cgh		0	swale				
113	JG, AP	3/3/10	938	9	10	17	4	1	cgh		0	swale				
114	JG, AP	3/3/10	942	9	10	12	10	1	cgh		0	swale				
115	JG, AP	3/3/10	956	9	10	8	3	0.5	cgh		0	swale				
116	JG, AP	3/3/10	1000	9	10	15	8	1	cgh		0	swale				
117	JG, AP	3/3/10	1019	9	10	7	15	1	cgh		0	swale				
118	JG, AP	3/3/10	1025	10	10	11	3	1	cgh		0	swale				
119	JG, AP	3/3/10	1034	9.5	10	17	48	3	cgh		0	swale				
120	JG, AP	3/3/10	1039	10	10	12	20	0.5	cgh		0	swale				
121	JG, AP	3/3/10	1110	9.5	10	23	26	8	cgh		0	swale				
122	JG, AP	3/3/10	1121	10	10	15	40	8	cgh		0	swale				
123	JG, AP	3/3/10	1337	13	10	9	5	4	cgh		0	swale				
124	JG, AP	3/3/10	1436	12.5	10	15	3	1	cgh		0	swale				
125	JG, AP	3/3/10	1440	12.5	10	14	5	1	cgh		0	swale				
126	JG, AP	3/3/10	1442	13	10	13	5	0.5	cgh		0	swale				
127	JG, AP	3/3/10	1450	12.5	10	15	5	1	cgh		0	swale				
2,23,45,64,65	JG, AP	3/3/10	1500	10	10	100+	140	40			0	pools combined				
24,25	JG, AP	3/3/10	1514	11.5	10	35	34	2			0					
2	JG, GC	3/16/10	1045	12.5	21	33	7	5								
3	JG, GC	3/16/10	1139	20	21	6	4	2								
5	JG, GC	3/16/10	1132	16	21	13	10	3								
8	JG, GC	3/16/10	1308	24.5	21	14	53	4								
9	JG, GC	3/16/10	1310	20	21	11	6.5	5								
10	JG, GC	3/16/10	1148	17	21	14	4.5	2								
11	JG, GC	3/16/10	1158	16	21	16	6	5								
12	JG, GC	3/16/10	1203	12.5	21	30	17	10		100s	4,Male,Branc		4, Male, *Branchinecta Lynchi*	x	3/18/2010	JG
13	JG, GC	3/16/10	1200	18	21	17	32	13								
14	JG, GC	3/16/10	1319	17	21	14	6	6								
15	JG, GC	3/16/10	1321	24.5	21	5	3.5	2								
16	JG, GC	3/16/10	1330	19	21	50	25	5				2 CTS Larva				
18	JG, GC	3/16/10	1045	24	21	13	47	2								
19	JG, GC	3/16/10	1409	19	21	12	1	0.5								
21	JG, GC	3/16/10	1411	19	21	24	7	2								
26	JG, GC	3/16/10	1530	16.5	21	21	24	3								
27	JG, GC	3/16/10	1607	23	21	7	7	5								
29	JG, GC	3/16/10	1626	21.5	21	11	7	4								
37	JG, GC	3/16/10	1130	21	21	4	7	5								
39	JG, GC	3/16/10	1109	18	21	5	14	2.5								
41	JG, GC	3/16/10	1154	22	21	3	3	2.5								
42	JG, GC	3/16/10	1156	22	21	3	2	0.5								
47	JG, GC	3/16/10	1635	20	21	13	3	2								
59	JG, GC	3/16/10	1350	24.5	21	6	2	1								
60	JG, GC	3/16/10	1416	13	21	75+	35	27								
62	JG, GC	3/16/10	1443	27	21	6	3	0.5								
63	JG, GC	3/16/10	1445	20	21	23	16	2								
66	JG, GC	3/16/10	1516	15	21	9	2.5	5								
68	JG, GC	3/16/10	1535	23.5	21	7	10	2								
69	JG, GC	3/16/10	1541	24	21	15	23	17								
70	JG, GC	3/16/10	1603	25	21	5	3	0.5								
71	JG, GC	3/16/10	1545	16	21	30	81	4								
72	JG, GC	3/16/10	1601	19	21	30	60	5								
74	JG, GC	3/16/10	1152	22	21	3	7	5								
23,45,64,65	JG, GC	3/16/10	1455	14	21	75+	103	84								
24,25	JG, GC	3/16/10	1519	20	21	21	34	2.5								
30	JG, GC	3/17/10	1144	13	21	32	3.5	3.5								
33	JG, GC	3/17/10	1122	11.5	21	75+	33	7.5								

34	JG, GC	3/17/10	1137	13	21	30	11.5	8								
80	JG, GC	3/17/10	1050	12	21	23	7	3.5								
81	JG, GC	3/17/10	1055	19	21	7	3.5	1.5								
85	JG, GC	3/17/10	1105	14	21	18	30	2.5								
85	JG, GC	3/17/10	1118	18	21	11	6	2.5								
86	JG, GC	3/17/10	1109	16	21	14	9	2								
88	JG, GC	3/17/10	1113	11	21	37	7	4.5								
89	JG, GC	3/17/10	1116	13	21	22	10	3.5								
90	JG, GC	3/17/10	1130	13	21	25	29	12								
92	JG, GC	3/17/10	1211	22	21	6	6	6								
96	JG, GC	3/17/10	1228	19	21	15	4	4								
2	JG,AP	3/30/10	1007	14	13	19	4	3		0						
8	JG,AP	3/30/10	1057	15	13	8	17	2		0						
12	JG,AP	3/30/10	1049	13	13	21	11	5		0						
13	JG,AP	3/30/10	1043	15	13	8	13	4		0						
14	JG,AP	3/30/10	1105	13.5	13	3	2	0.5		0						
16	JG,AP	3/30/10	1115	13.5	13	45	21	12		0		10 cts larva				
24	JG,AP	3/30/10	1206	16.5	13	6	2	1		0						
25	JG,AP	3/30/10	1208	13.5	13	16	14	2		0						
26	JG,AP	3/30/10	1211	14	13	20	18	2		0						
29	JG,AP	3/30/10	1252	17.5	13	10	5	2		0						
30	JG,AP	3/30/10	1310	17	13	19	3	3		0						
33	JG,AP	3/30/10	1327	13	13	65	25	10		0						
34	JG,AP	3/30/10	1315	16.5	13	20	8	7		0						
60	JG,AP	3/30/10	1128	12	13	71	25	15		0						
63	JG,AP	3/30/10	1145	15.5	13	15	8	1		0						
69	JG,AP	3/30/10	1216	15	13	15	4	3		0		all hoof prints				
71	JG,AP	3/30/10	1219	14.5	13	19	66	2		0						
72	JG,AP	3/30/10	1225	14.5	13	23	29	3		0						
80	JG,AP	3/30/10	1349	19	13	4	2	1		0						
85	JG,AP	3/30/10	1340	19	13	12	14	1		0						
88	JG,AP	3/30/10	1334	14.5	13	34	4	4		0						
89	JG,AP	3/30/10	1333	17	13	15	6	1		0						
90	JG,AP	3/30/10	1320	17.5	13	20	21	9		0						
45,64,65	JG,AP	3/30/10	1152	12.5	13	75+	88	32		0						
1	GC,JG	4/13/10	1355	27.5	16	5	3	1								
2	GC,JG	4/13/10	1405	19	16	26	10	4								
3	GC,JG	4/13/10	1456	21.5	16	10	6	3								
4	GC,JG	4/13/10	1457	21.5	16	8	4	3								
5	GC,JG	4/13/10	1454	21	16	20	22	4.5								
6	GC,JG	4/13/10	1448	27.5	16	7	10	2								
7	GC,JG	4/13/10	1445	25	16	9	15	3								
8	GC,JG	4/13/10	1602	19.5	16	13	60	3								
9	GC,JG	4/13/10	1604	19.5	16	15	5.5	5								
10	GC,JG	4/13/10	1511	24	16	21	10	3								
11	GC,JG	4/13/10	1545	22	16	9	5	4								
12	GC,JG	4/13/10	1548	27.5	16	25	16	8								
13	GC,JG	4/13/10	1546	21	16	11	22	8								
14	GC,JG	4/13/10	1612	19.5	16	15	6	4.5								
15	GC,JG	4/13/10	1617	22	16	7	9	5.5								
16	GC,JG	4/13/10	1621	18	16	40	24	15				Clam shrimp, 4 CTS				
17	GC,JG	4/13/10	1633	19.5	16	6	5	2								
18	GC,JG	4/13/10	1638	19.5	16	14	52	2								
19	GC,JG	4/13/10	1646	17.5	16	16	5	4								
20	GC,JG	4/13/10	1644	19	16	8	5	3								
21	GC,JG	4/13/10	1648	13.5	16	26	16	1.5								
29	GC,JG	4/13/10	1500	23.5	16	14	6.5	4								
36	GC,JG	4/13/10	1452	27.5	16	15	27	4								
37	GC,JG	4/13/10	1450	27.5	16	15	14	2.5								

38	GC,JG	4/13/10	1447	25	16	10	8	2.5								
39	GC,JG	4/13/10	1423	27	16	17	24	7								
40	GC,JG	4/13/10	1523	22	16	18	2.5	2.5								
41	GC,JG	4/13/10	1524	22.5	16	7	6	5								
42	GC,JG	4/13/10	1544	22.5	16	10	9	4								
43	GC,JG	4/13/10	1610	20	16	8	1.5	1								
46	GC,JG	4/13/10	1458	25.5	16	7	9.5	3								
49	GC,JG	4/13/10	1350	23.5	16	11	13	0.5								
50	GC,JG	4/13/10	1347	26	16	12	70	2								
50	GC,JG	4/13/10	1347	26	16	12	70	2								
52	GC,JG	4/13/10	1420	27	16	5	4	4								
53	GC,JG	4/13/10	1426	27.5	16	9	3	2								
54	GC,JG	4/13/10	1428	27.5	16	8	9	2								
55	GC,JG	4/13/10	1433	26	16	10	5	2.5								
56	GC,JG	4/13/10	1608	20	16	6	1.5	0.5								
57	GC,JG	4/13/10	1611	20	16	9	1	1								
60	GC,JG	4/13/10	1654	14	16	75+	28	23								
61	GC,JG	4/13/10	1700	17	16	7	2	0.5								
74	GC,JG	4/13/10	1520	25	16	10	7	3								
75	GC,JG	4/13/10	1517	26	16	9	6	3.5								
76	GC,JG	4/13/10	1515	25.5	16	9	7	1								
77	GC,JG	4/13/10	1513	25	16	12	3	3								
100	GC,JG	4/13/10	1430	26	16	10	3	2.5								
101	GC,JG	4/13/10	1518	25.5	16	9	9	2								
104	GC,JG	4/13/10	1416	27.5	16	6	5	5								
106	GC,JG	4/13/10	1522	23.5	16	13	5	2								
22	GC,JG	4/14/10	1000	14	15	7	2	0.5								
23	GC,JG	4/14/10	1001	14.5	15	12	7	1								
24	GC,JG	4/14/10	1031	13.5	15	16	15	3								
25	GC,JG	4/14/10	1033	12	15	18	12	1.5								
26	GC,JG	4/14/10	1035	14	15	20	20.5	2								
27	GC,JG	4/14/10	1113	15.5	15	18	9	8								
28	GC,JG	4/14/10	1641	19	15	7	2	1								
30	GC,JG	4/14/10	1618	16	15	23	2.5	2.5								
32	GC,JG	4/14/10	1556	18	15	20	7	5								
33	GC,JG	4/14/10	1557	13	15	63	30	8								
34	GC,JG	4/14/10	1610	16	15	30	10	7								
35	GC,JG	4/14/10	1657	16.5	15	9	4	3								
44	GC,JG	4/14/10	958	14	15	9	2	0.5								
47	GC,JG	4/14/10	1642	19.5	15	18	3	3								
62	GC,JG	4/14/10	954	16	15	6	2.5	0.5								
63	GC,JG	4/14/10	956	12.5	15	17	14.5	1.5								
68	GC,JG	4/14/10	1045	12.5	15	13	13	2								
69	GC,JG	4/14/10	1052	17.5	15	10	20	3								
70	GC,JG	4/14/10	1054	17	15	9	7.5	1								
71	GC,JG	4/14/10	1100	14	15	22	71	3								
72	GC,JG	4/14/10	1105	14.5	15	21	33	4.5								
73	GC,JG	4/14/10	1115	20.5	15	6	1.5	0.5								
78	GC,JG	4/14/10	1432	21.5	15	13	3	3								

79	GC,JG	4/14/10	1513	19	15	12	5	1.5								
85	GC,JG	4/14/10	1542	20	15	16	24	2								
86	GC,JG	4/14/10	1547	18	15	17	11	2								
88	GC,JG	4/14/10	1549	16.5	15	26	5	4								
89	GC,JG	4/14/10	1555	19.5	15	21	10	3.5								
90	GC,JG	4/14/10	1604	20	15	13	25	9								
91	GC,JG	4/14/10	1613	18	15	15	4	2								
92	GC,JG	4/14/10	1644	17.5	15	10	6	5								
95	GC,JG	4/14/10	1649	20	15	14	44	1.5								
96	GC,JG	4/14/10	1659	18.5	15	15	5	5								
97	GC,JG	4/14/10	1512	19	15	12	3.5	1.5								
98	GC,JG	4/14/10	1514	21	15	7	6.5									
99	GC,JG	4/14/10	1524	20	15	13	10	0.5								
109	GC,JG	4/14/10	1500	21.5	15	11	3	1								
111	GC,JG	4/14/10	1502	20	15	10	4	1								
112	GC,JG	4/14/10	1505	20.5	15	10	9	1								
113	GC,JG	4/14/10	1508	18	15	15	6	1.5								
114	GC,JG	4/14/10	1511	19	15	9	8	1								
115	GC,JG	4/14/10	1522	19	15	10	4	0.5								
116	GC,JG	4/14/10	1526	20	15	7	2.5	0.5								
123	GC,JG	4/14/10	1703	19	15	9	4	2.5								
128	GC,JG	4/14/10	1454	22	15	10	5	1								
45,64,65	GC,JG	4/14/10	1002	12	15	75+	86	83								
2	GC, JG	4/27/10	1418	20	24	16	4	3								
5	GC, JG	4/27/10	1450	21	24	14	8	3								
7	GC, JG	4/27/10	1445	23	24	4	1	0.5								
8	GC, JG	4/27/10	1517	23	24	7	59	4								
10	GC, JG	4/27/10	1456	26	24	9	3.5	2								
12	GC, JG	4/27/10	1504	22	24	21	12	8.5								
16	GC, JG	4/27/10	1539	18.5	24	39	21	14			Clam Shrimp	5 CTS				
18	GC, JG	4/27/10	1600	21.5	24	9	12	0.5								
21	GC, JG	4/27/10	1605	21	24	15	3	1								
24	GC, JG	4/27/10	1636	21	24	11	4	1.5								
26	GC, JG	4/27/10	1638	21	24	10	15	1.5								
42	GC, JG	4/27/10	1501	23	24	6	2	1								
60	GC, JG	4/27/10	1608	18	24	75+	26	23								
65	GC, JG	4/27/10	1620	17	24	75+	72	30								
71	GC, JG	4/27/10	1640	21	24	16	55	2								
72	GC, JG	4/27/10	1645	21	24	12	25.5	3								
29	GC, JG	4/28/10	1036	13.5	11	11	6.5	3.5								
30	GC, JG	4/28/10	1019	12	11	15	2	2								
32	GC, JG	4/28/10	1003	12	11	55	24	7								
34	GC, JG	4/28/10	1017	12	11	21	8	5.5								
35	GC, JG	4/28/10	1045	13.5	11	11	5.5	5								
88	GC, JG	4/28/10	957	12.5	11	14	3	2.5								
90	GC, JG	4/28/10	1011	12.5	11	11	10	4								
16	AP	5/11/10	815	8	9	23	14	7				17 cts larva, 3"-4"				
33	AP	5/11/10	936	10	12	30	20	4								
60	AP	5/11/10	833	10	9	40+	25	14								
65	AP	5/11/10	850	11	9	50+	63	27								
108	AP	5/11/10	758	9.5	9	7	18	3								
112	AP	5/11/10	745	8	9	9	7	4								
60	AP	5/25/10	825	13	14	40+	20	14								
65	AP	5/25/10	850	13	14	50+	54	22								
60	AP	6/7/10	810	19.5	23	35	19	10								
65	AP	6/7/10	832	20	23	50	51	20								

***** JG=Jeff Gurule; GC=Geoff Cline; AP=Austin Pearson
CGH=Cattle Grazing Heavy

APPENDIX C:
POOL COORDINATES

Panoche Solar Farm Pool Locations **Grid: UTM** **Datum: NAD83** **Zone: 10S**

Pool #	Easting	Northing	Altitude
1	689496	4055757	1305 ft
2	688302	4055313	1342 ft
3	689829	4056101	1324 ft
4	689834	4056100	1319 ft
5	689763	4056093	1314 ft
6	689688	4056103	1316 ft
7	689326	4056083	1320 ft
8	688589	4056816	1372 ft
9	688595	4056815	1374 ft
10	689470	4057479	1342 ft
11	689036	4057670	1333 ft
12	688911	4057611	1335 ft
13	688921	4057611	1338 ft
14	687939	4057814	1379 ft
15	687945	4057818	1382 ft
16	688234	4058362	1380 ft
17	688572	4058300	1402 ft
18	689004	4058842	1332 ft
19	689014	4059176	1357 ft
20	688840	4058916	1356 ft
21	689086	4059160	1354 ft
22	689119	4058641	1330 ft
23	689120	4058634	1320 ft
24	689187	4058476	1331 ft
25	689181	4058467	1316 ft
26	689204	4058399	1318 ft
27	689270	4058041	1318 ft
28	689811	4057710	1306 ft
29	689938	4056148	1308 ft
30	690230	4056326	1294 ft
31	691090	4057257	1358 ft
32	690834	4055790	1271 ft
33	690806	4055805	1279 ft
34	690648	4056380	1286 ft
35	690460	4054895	1314 ft
36	689732	4056112	1308 ft
37	689708	4056105	1337 ft
38	689626	4056092	1327 ft
39	686835	4056546	1454 ft
40	689145	4057604	1309 ft
41	689113	4057614	1327 ft
42	689033	4057647	1329 ft
43	688292	4057609	1362 ft
44	689083	4058673	1320 ft

Pool #	Easting	Northing	Altitude
45	689115	4058610	1320 ft
46	689842	4056105	1301 ft
47	689839	4057712	1311 ft
48	690492	4058250	1374 ft
49	689828	4055797	1296 ft
50	689855	4055796	1294 ft
51	689333	4056074	1312 ft
52	686969	4056483	1469 ft
53	686814	4056424	1484 ft
54	686776	4056341	1486 ft
55	686907	4056277	1476 ft
56	688248	4057597	1378 ft
57	688437	4057625	1361 ft
58	688657	4057633	1351 ft
59	689019	4058710	1344 ft
60	689075	4059037	1331 ft
61	689072	4059015	1337 ft
62	689086	4058729	1325 ft
63	689107	4058687	1338 ft
64	689125	4058590	1320 ft
65	689181	4058543	1312 ft
66	689199	4058519	1310 ft
67	689190	4058645	1305 ft
68	689208	4058395	1332 ft
69	689269	4058326	1309 ft
70	689236	4058317	1301 ft
71	689323	4058278	1305 ft
72	689366	4058222	1305 ft
73	689288	4058054	1312 ft
74	689248	4057557	1329 ft
75	689355	4057533	1338 ft
76	689431	4057496	1320 ft
77	689443	4057485	1316 ft
78	696325	4053843	1330 ft
79	691459	4055163	1264 ft
80	691320	4055354	1257 ft
81	691291	4055371	1245 ft
82	691217	4055474	1270 ft
83	691196	4055487	1260 ft
84	691183	4055498	1279 ft
85	691004	4055643	1256 ft
86	690938	4055687	1267 ft
87	690890	4055745	1274 ft
88	690875	4055737	1275 ft

Pool #	Easting	Northing	Altitude
89	690848	4055758	1285 ft
90	690724	4056063	1285 ft
91	690585	4056501	1294 ft
92	689917	4057463	1316 ft
93	691576	4056566	1361 ft
94	691108	4057252	1362 ft
95	689847	4056821	1301 ft
96	690484	4054899	1289 ft
97	691460	4055152	1241 ft
98	691441	4055189	1236 ft
99	691385	4055274	1236 ft
100	686848	4056217	1490 ft
101	689315	4057548	1331 ft
102	689029	4058943	1312 ft
103	689781	4055798	1307 ft
104	687276	4056536	1469 ft
105	689824	4057202	1308 ft
106	689163	4057595	1323 ft
107	691959	4054950	1247 ft
108	691936	4054959	1252 ft
109	691827	4054980	1234 ft
110	691813	4054979	1246 ft
111	691629	4055068	1256 ft
112	691593	4055078	1253 ft
113	691552	4055092	1249 ft
114	691461	4055137	1258 ft
115	691417	4055233	1251 ft
116	691346	4055332	1252 ft
117	691281	4055396	1256 ft
118	691206	4055485	1269 ft
119	691049	4055621	1263 ft
120	690950	4055672	1264 ft
121	690796	4055862	1268 ft
122	690685	4056192	1292 ft
123	690458	4054510	1277 ft
124	689225	4058981	1329 ft
125	689226	4059076	1346 ft
126	689230	4059090	1336 ft
127	689092	4058711	1338 ft
128	692072	4054918	1258 ft

APPENDIX D:
PHOTOS

Photo 1: Looking SW at Pool #12 - a stock pond. Vernal pool fairy shrimp (*Branchinecta lynchi*) were observed in this pool on 3/16/10.

Photo 2: Looking SE at Pool #5, a natural vernal pool at the toe of a swale. No shrimp were observed in this pool during the 09/10 wet season survey.

Photo 3: LOA Biologist Mr. Jeff Gurule (TE-168924) sampling Pool #50 at the intersection of a ranch road and Little Paonoche Road looking east. This pool is an example of the many ruderal pools associated with the ranch roads on the site. No shrimp were observed in this pool during the 09/10 wet season survey.

Photo 4: Incidental California tiger salamander observation from Pool #16 on May 11th, 2010.

Photo 5: Looking south across the study area.

Photo 6: Looking north across the study area.