

**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA**

In the Matter of the Application of SOUTHERN)
CALIFORNIA EDISON COMPANY (U 338-E)) A.13-10-XXX
for a Certificate of Public Convenience and)
Necessity for the West of Devers Upgrade Project)
and for an Interim Decision Approving the)
Proposed Transaction between Southern)
California Edison and Morongo Transmission)
LLC)

**PROPONENT'S ENVIRONMENTAL ASSESSMENT (PEA)
IN THE WEST OF DEVERS UPGRADE PROJECT**

VOLUME 5 OF 7

<p>This PEA is being filed separately from the Application and is being submitted as an Archival DVD and CD-ROM</p>

JENNIFER HASBROUCK
BETH GAYLORD
GARY CHEN
LAURA RENGER

Attorneys for
SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770
Telephone: (626) 302-6984
Facsimile: (626) 302-1926
E-mail: laura.renger@sce.com

APPENDIX E
FAIRY SHRIMP SURVEY REPORTS
(Reports for Wet Season 2012-2013,
Dry Season 2012, Wet Season 2011-2012)

This Page Intentionally Left Blank



LSA ASSOCIATES, INC.
1500 IOWA AVENUE, SUITE 200
RIVERSIDE, CALIFORNIA 92507

951.781.9310 TEL
951.781.4277 FAX

BERKELEY
CARLSBAD
FRESNO

FORT COLLINS
IRVINE
PALM SPRINGS

POINT RICHMOND
ROCKLIN
SAN LUIS OBISPO

July 9, 2013

Ms. Susie Tharratt
Recovery Permits Coordinator
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

Subject: Results of 2012–2013 Second Year Wet Season Fairy Shrimp Survey East of the El Casco Substation for the West of Devers Upgrade Project in San Bernardino and Riverside Counties (LSA Project No. SCE1110)

Dear Ms. Tharratt:

This letter provides the results of a 2012–2013 wet season presence/absence survey for vernal pool branchiopods following a 2012 dry season survey. The wet season survey was conducted by LSA Associates, Inc. (LSA) for the segment of the Southern California Edison (SCE) West of Devers Upgrade Project that extends from the SCE El Casco Substation (33.97° latitude and -117.08° longitude) at San Timoteo Canyon Road in Riverside County, eastward to Hargrave Street (33.95° latitude and -116.87° longitude) in Banning, Riverside County (attached Figure 1). This project segment (hereafter, Survey Area) covers approximately 12 linear miles and is located within portions of Township 2 South, Ranges 2 West, 1 West, and 1 East; and Township 3 South, Ranges 1 West and 1 East.

The proposed project would upgrade the existing transmission facilities to afford additional transmission capacity between the Devers Substation at the east end and the San Bernardino and Vista Substations at the west end. The upgrade would consist of replacing existing 220 kilovolt (kV) transmission lines and associated structures with new, higher-capacity 220 kV transmission lines and structures, modifying existing substation facilities, removing and relocating existing subtransmission (66 kV) lines, removing and relocating existing distribution (12 kV) lines, and making various telecommunication improvements.

METHODS

The fairy shrimp survey was conducted for Riverside fairy shrimp (*Streptocephalus woottoni*) and vernal pool fairy shrimp (*Branchinecta lynchi*) by LSA Senior Biologist Stanley Spencer under LSA Federal 10(a)(1)(A) Permit TE-777965 and in accordance with the April 19, 1996, *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*. Site checks were made on November 13, 15, and 27; December 10, 20, and 21, 2012; January 3, 4, 16, 18, and 31; February 12 and 21; March 1, 7, 13, 14, 25, and 27; April 3; and May 15, 2013, to determine if water was present in ponding features following storm events. Ponded features were sampled at required intervals until they had dried and remained dry.

7/11/2013 (P:\SCE1110 - WOD\Biology\Flora Fauna JD\Fairy Shrimp Vernal Pools\Reports\Wet Season 2013\WOD_2012-2013Wet_FairyShrimpReport Final.doc)

PLANNING | ENVIRONMENTAL SCIENCES | DESIGN

Features were sampled by drawing a handheld net through the water column, occasionally bumping the bottom to stir up any benthic organisms. The net was periodically removed from the water to check for aquatic species. Sampling was continued until the net was pulled through a sufficient portion of the water body to indicate the probable absence of fairy shrimp.

Table A provides the dates and weather conditions for each site visit during which features were sampled. A total of 19 features (B1 through B19) were monitored, but only 17 were sampled. Features B11 and B13 were monitored but were not sampled because they were not inundated during any of the site visits. All features were, however, sampled in the 2012 dry season survey reported previously for this project. Wet season data sheets are attached.

Table A: Survey Dates, Weather Conditions, and Features Sampled

Date	Water Temperature (°C)	Air Temperature (°C)	Cloud Cover	Feature Sampled
11/15/12	10	16	100%	B7
11/27/12	14	16	50%	B7
12/10/12	17	20	0%	B2
12/20/12	3	8	0%	B14,B15,B16
12/21/12	12	13	5%	B2, B3, B4, B5, B6, B7, B8, B9, B10, B18, B19
1/3/13	5	8	0%	B18, B19
1/4/13	10	14	0%	B2, B3, B4, B5, B6, B7, B8, B9, B10
1/18/13	11	20	0%	B2, B4, B6, B7,
1/31/13	9	14	2%	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B14, B16, B18, B19
2/12/13	19	16	0%	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B14, B18, B19
2/21/13	12	11	90%	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B12, B14, B15, B16, B17, B18, B19
3/7/13	17	17	100%	B19
3/13/13	21	29	0%	B14, B18, B19
3/14/13	24	29	2%	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10
3/27/13	25	24	5%	B6

RESULTS

Feature characteristics are provided in Table B. All features and adjacent areas were unvegetated or vegetated with nonnative grassland or ruderal species. Based on feature locations and patterns of disturbance, all sampled features appear to be artificially created depressions (Table B). All are highly disturbed by ongoing vehicle use, cattle trampling, or site maintenance. Due to soil texture and compaction, these features retain water long enough to support or potentially support some invertebrate species adapted to ephemeral pools. These features are fed by direct rainfall as well as runoff from adjacent compacted areas.

Table B: Characteristics of Features Sampled

Feature	Estimated Maximum Depth (cm)	Estimated Maximum Length (m) × Width (m)	Origin	Fairy Shrimp Species Observed
B1	8	4 × 4	depression made by cattle seeking shade	none
B2	9	15 × 7	road rut	<i>Branchinecta lindahli</i>
B3	10	8 × 6	road rut	none
B4	10	13 × 7	road rut	none
B5	10	12 × 5	road rut	none
B6	12	17 × 7	road rut	none
B7	12	16 × 8	road rut	none
B8	10	10 × 7	road rut	none
B9	14	14 × 6	road rut	none
B10	12	14 × 8	road rut	none
B11	4	3 × 3	road rut	none
B12	5	6 × 3	road rut	none
B13	4	3 × 3	road rut	none
B14	8	9 × 4	road rut	none
B15	7	6 × 4	road rut	none
B16	8	13 × 5	road rut	none
B17	7	8 × 2	diversion ditch	none
B18	14	17 × 6	road rut	none
B19	16	16 × 6	road rut	<i>Branchinecta lindahli</i>

The only fairy shrimp species observed during the wet season survey was *Branchinecta lindahli*, a nonsensitive species, which was found in Features B2 and B19. Other aquatic animals observed included water boatman (Corixidae; in Feature B7).

This wet season survey completes the required two-season protocol fairy shrimp surveys. Overall findings for the Study Area are negative for Riverside fairy shrimp and vernal pool fairy shrimp.

Please contact me if you require any additional information.

Sincerely,

LSA ASSOCIATES, INC.



Stanley C. Spencer, Ph.D.
Senior Biologist

Attachments: Appendix A: Certification
Appendix B: Figures
Appendix C: Data Sheets


cc: Nicole Di Jerlando, SCE
Jack Goldfarb, SCE
Scott Holbrook, SCE
Karin Cleary-Rose, USFWS

APPENDIX A

CERTIFICATION

This Page Intentionally Left Blank

I CERTIFY THAT THE INFORMATION IN THIS SURVEY REPORT AND ATTACHED
EXHIBITS FULLY AND ACCURATELY REPRESENTS MY WORK:

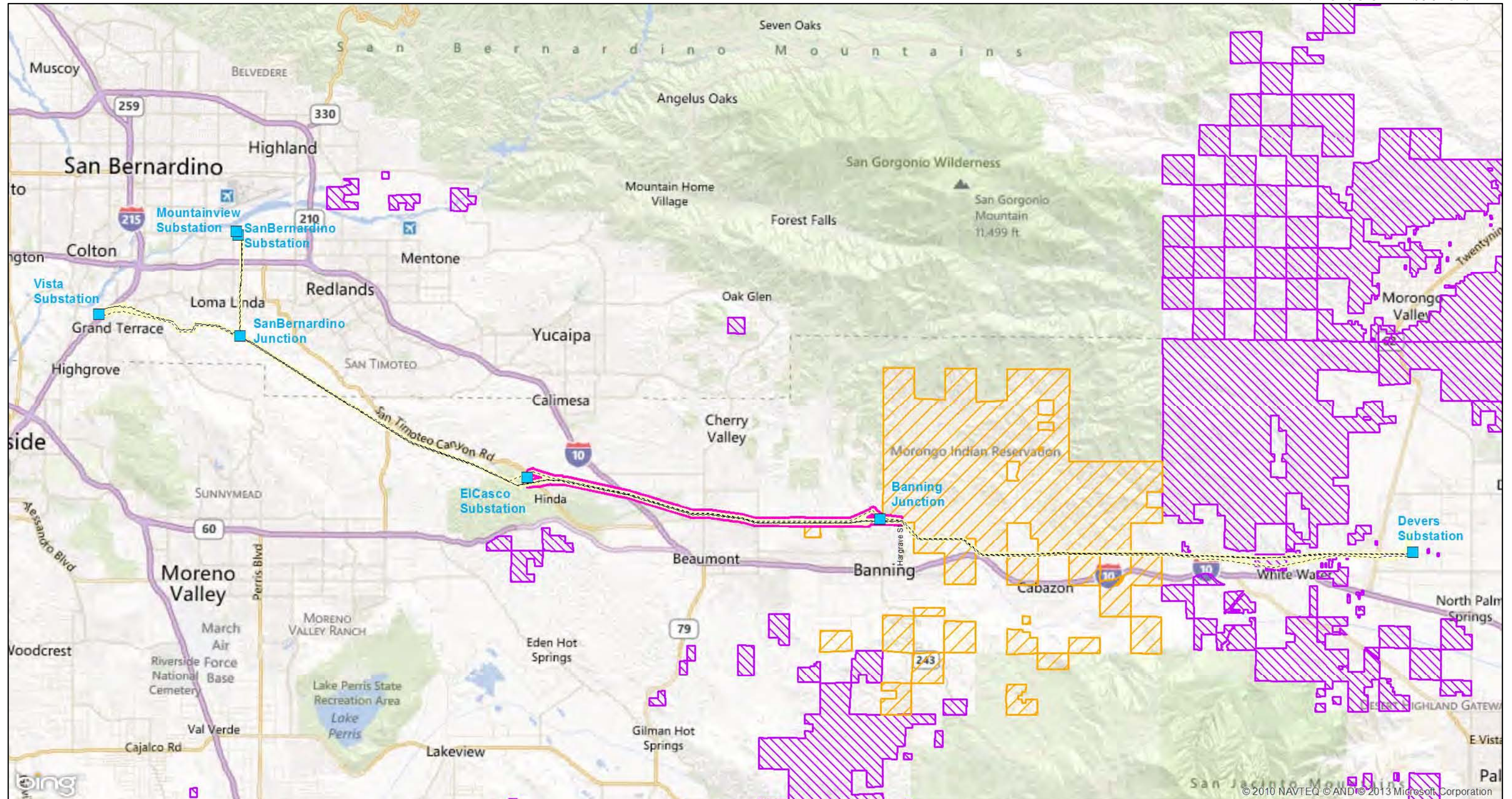
<u>SURVEYOR:</u>	<u>PERMIT NUMBER</u>	<u>DATE:</u>
 Stanley Spencer	TE-777965	July 9, 2013

This Page Intentionally Left Blank

APPENDIX B

FIGURES

This Page Intentionally Left Blank



© 2010 NAVTEQ © AND © 2013 Microsoft Corporation

FIGURE 1

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

LEGEND

- Existing Transmission Lines
- Transmission Line Right-of-Way
- Fairy Shrimp Survey Area 2012-2013 Wet Season
- Substations/Junctions
- Morongo Indian Reservation
- U.S. Bureau of Land Management

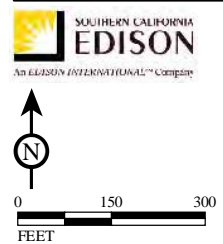
0 1.5 3
MILES

North arrow pointing up.

SOURCE: Bing Maps (c. 2010); SCE (6/2012)

I:\SCE\1110\Reports\Bio\FairyShrimp\Wet_2013\fig1_FairyShrimpSurvey_Wet_2012_2013.mxd (6/19/2013)

This Page Intentionally Left Blank

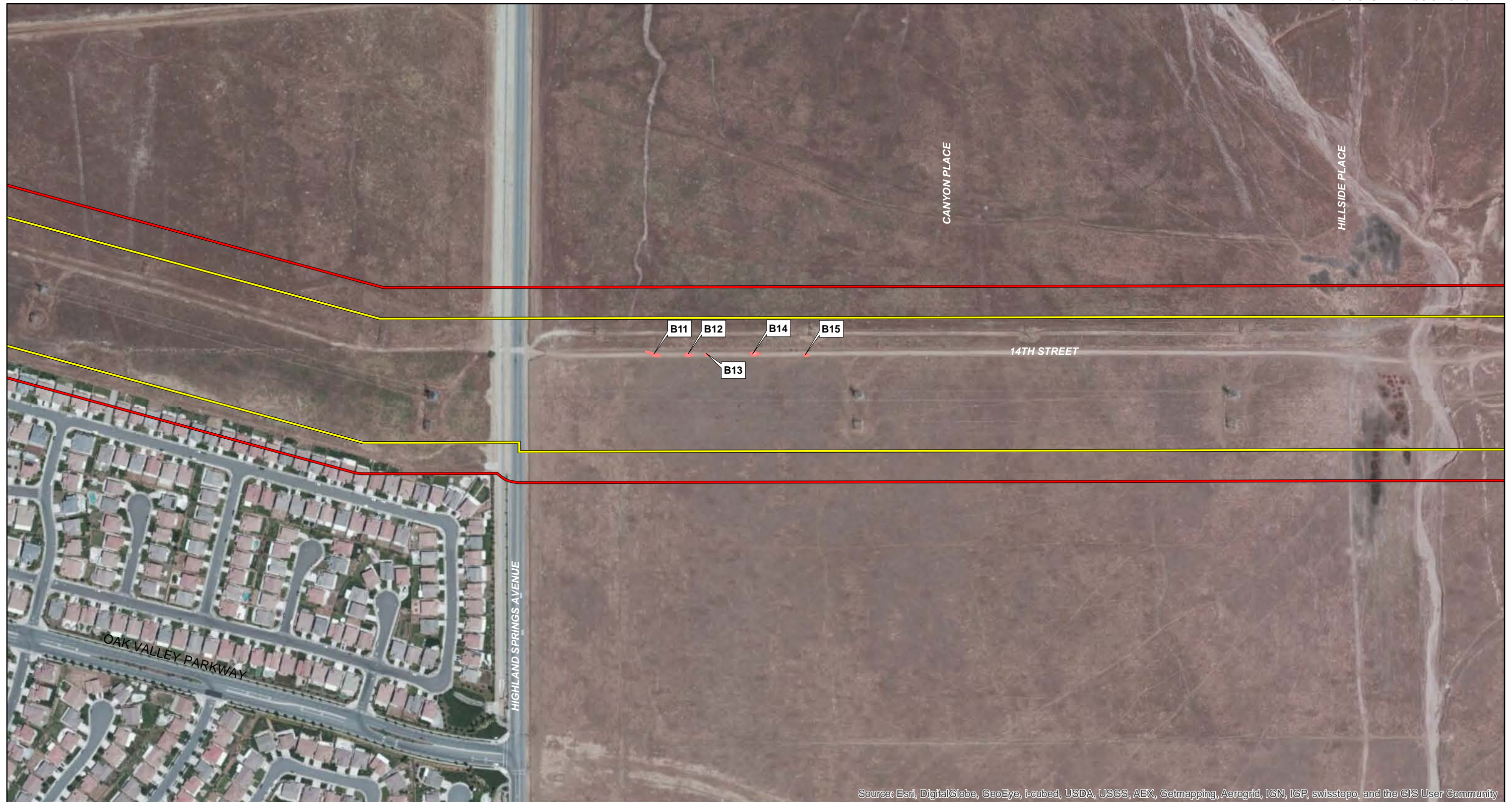


- LEGEND**
- Transmission Line Right-of-Way
 - Survey Area
 - Features Sampled

SOURCE: ESRI World Imagery, 2010; Riverside County, 2011
 I:\SCE1110\Reports\Bio\FairyShrimp\Wet_2013\fig2_FairyShrimp_results.mxd (6/19/2013)

FIGURE 2
 Sheet 1 of 4

This Page Intentionally Left Blank



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

FIGURE 2
Sheet 2 of 4

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

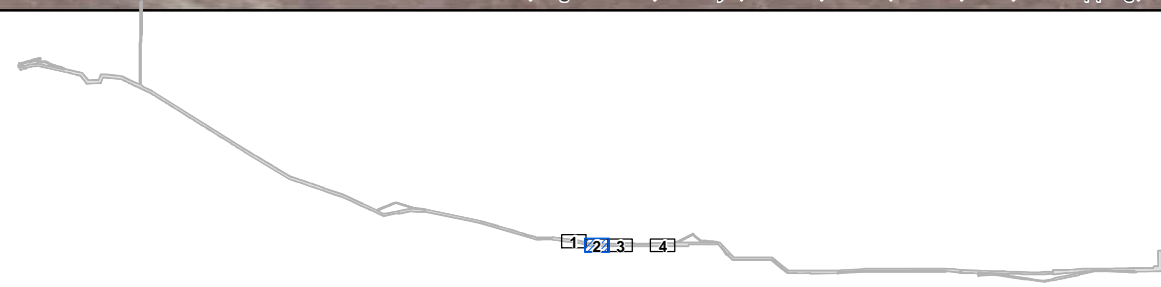
LEGEND

- Transmission Line Right-of-Way
- Survey Area
- Features Sampled

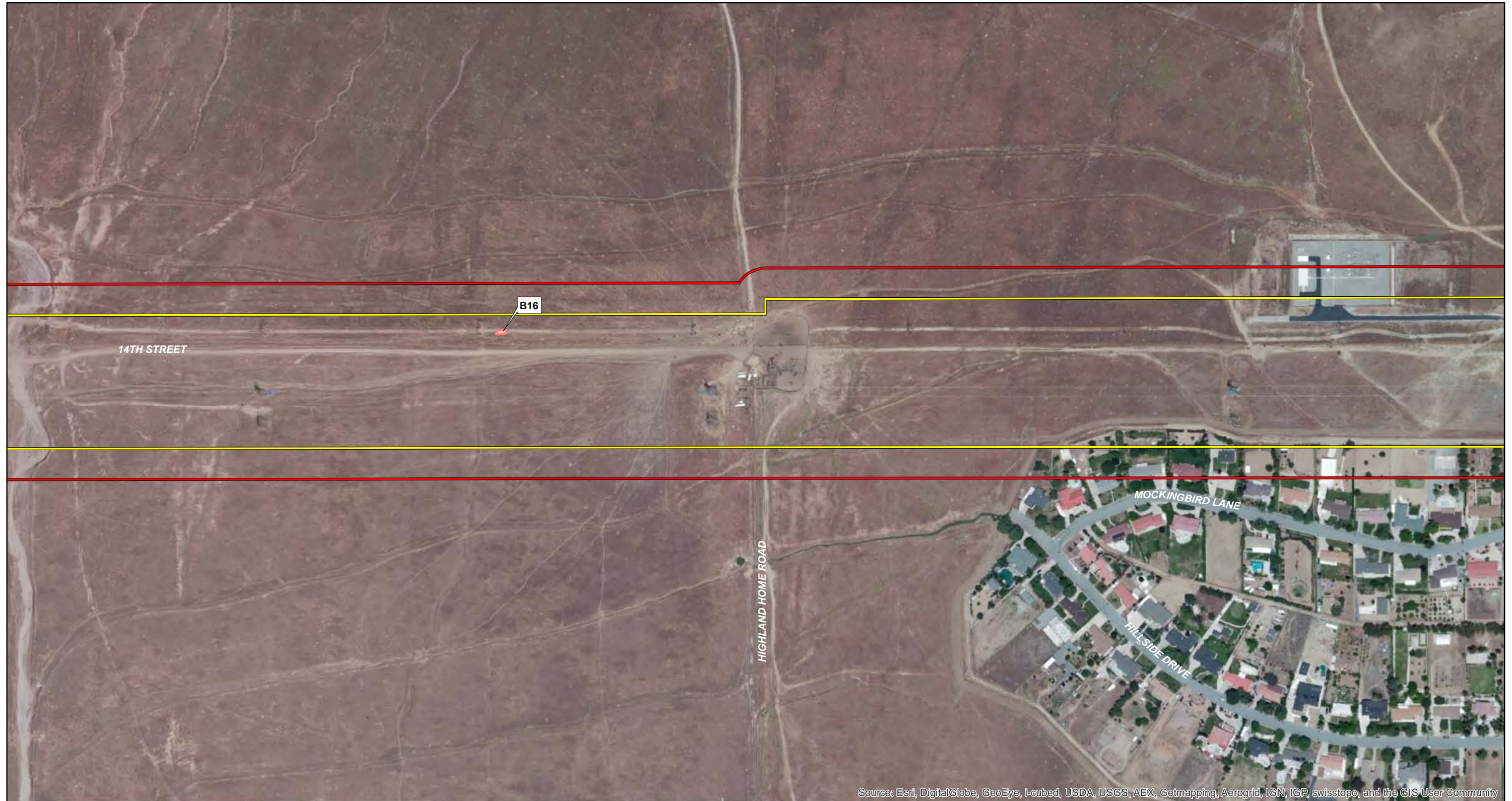
Scale: 0 150 300 FEET

North Arrow: N

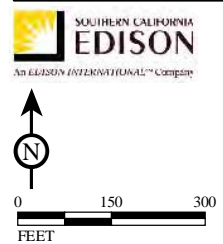
SOURCE: ESRI World Imagery, 2010; Riverside County, 2011
E:\SCE\1110\Reports\Bio\FairyShrimp\Wet_2013\fig2_FairyShrimp_results.mxd (6/19/2013)



This Page Intentionally Left Blank



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



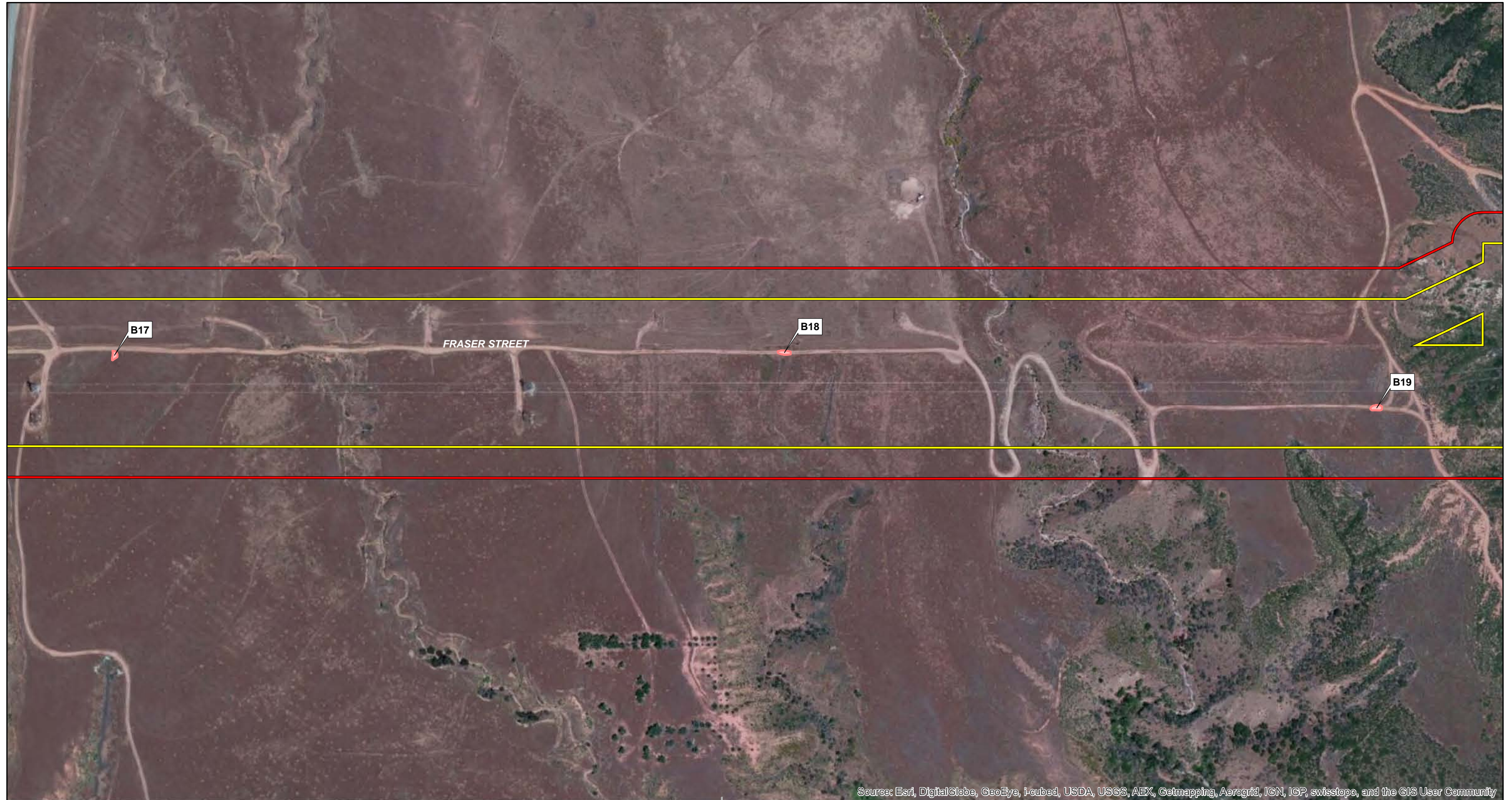
- LEGEND**
- Transmission Line Right-of-Way
 - Survey Area
 - Features Sampled

SOURCE: ESRI World Imagery, 2010; Riverside County, 2011
 I:\SCE1110\Reports\Bio\FairyShrimp\Wet_2013\fig2_FairyShrimp_results.mxd (6/19/2013)

FIGURE 2
 Sheet 3 of 4

Southern California Edison
West of Devers Upgrade Project
Fairy Shrimp Wet Season Survey 2012 - 2013
Features Sampled

This Page Intentionally Left Blank



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- LEGEND**
- Transmission Line Right-of-Way
 - Survey Area
 - Features Sampled

FIGURE 2
Sheet 4 of 4

Southern California Edison
West of Devers Upgrade Project
Fairy Shrimp Wet Season Survey 2012 - 2013
Features Sampled

SOURCE: ESRI World Imagery, 2010; Riverside County, 2011
I:\SCE1110\Reports\Bio\FairyShrimp\Wet_2013\fig2_FairyShrimp_results.mxd (6/19/2013)

This Page Intentionally Left Blank

PHOTOGRAPH 1:
View looking east, showing feature B2.
(S. Spencer, 1/31/2013)



PHOTOGRAPH 2:
View looking east, showing Feature B4.
(S. Spencer, 1/31/2013)



PHOTOGRAPH 3:
View looking east, showing Features B6 and B7.
(S. Spencer, 1/31/2013)



FIGURE 3A



Southern California Edison
West of Devers Upgrade Project
Fairy Shrimp Wet Season Survey 2012 - 2013
Representative Site Photographs

PHOTOGRAPH 4:
View looking east, showing feature B12.
(S. Spencer, 1/31/13)



PHOTOGRAPH 5:
View looking east, showing Feature B15.
(S. Spencer, 1/31/13)



PHOTOGRAPH 6:
View looking east, showing Feature B16.
(S. Spencer, 1/31/2013)



FIGURE 3B



Southern California Edison
West of Devers Upgrade Project
Fairy Shrimp Wet Season Survey 2012 - 2013
Representative Site Photographs

PHOTOGRAPH 7:
View looking east, showing feature B17.
(S. Spencer, 1/31/2013)



PHOTOGRAPH 8:
View looking east, showing Feature B18.
(S. Spencer, 1/31/2013)



PHOTOGRAPH 9:
View looking east, showing Feature B19.
(S. Spencer, 1/31/2013)



FIGURE 3C



Southern California Edison
West of Devers Upgrade Project
Fairy Shrimp Wet Season Survey 2012 - 2013
Representative Site Photographs

This Page Intentionally Left Blank

APPENDIX C
DATA SHEETS

This Page Intentionally Left Blank

**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 yes

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

Date: 11 / 15 / 12 Time: 0936 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B7

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9591 lng.

Temperature: Water: 10 oC Air: 16 oC

Pool Depth: Surface Area:

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

estimated maximum: 12 cm estimated maximum: 16 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 100**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 11 / 27 / 12 Time: 1615 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B7

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9591 lng.

Temperature: Water: 14 oC Air: 16 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 3 m x 1 m

estimated maximum: 12 cm estimated maximum: 16 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 50

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 10 / 12 Time: 1230 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B2

Township: 2S Range: 1W Section: 35 33.9495 lat. -116.9633 lng.

Temperature: Water: 17 oC Air: 20 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 6 m x 1 m

estimated maximum: 9 cm estimated maximum: 15 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 0

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 20 / 12 Time: 1600 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B14

Township: 3S Range: 1W Section: 1 33.9470 lat. -116.9445 lng.

Temperature: Water: 3 oC Air: 8 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 10 m x 3 m

estimated maximum: 8 cm estimated maximum: 9 m x 4 m

Habitat Condition: (circle where appropriate)

- undisturbed	disturbed: <u>tire tracks</u>	garbage	discing/plowing	
- ungrazed	grazed: cattle	horses	sheep	other: <u>grading</u>
		light	moderate	heavy
- land use of habitat:				
<u>dirt road</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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 20 / 12 Time: 1610 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B15

Township: 3S Range: 1W Section: 1 33.9470 lat. -116.9439 long.

Temperature: Water: 3 oC Air: 8 oC

Pool Depth: Surface Area:

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

estimated maximum: 7 cm estimated maximum: 6 m x 4 m

Habitat Condition: (circle where appropriate)

- | | | | | |
|------------------------|-------------------------------|---------|-----------------|-----------------------|
| - undisturbed | disturbed: <u>tire tracks</u> | garbage | discing/plowing | |
| - ungrazed | grazed: cattle | horses | sheep | other: <u>grading</u> |
| | | light | moderate | heavy |
| - land use of habitat: | | | | |
| <u>dirt road</u> | | | | |

(Optional) Water Chemistry Data

Alkalinity (total): _____ ppm or mg/l	Conductivity: _____ uMHO
Dissolved NH ₄ : _____ 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: PERCENT CLOUD COVER: 0

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 20 / 12 Time: 1620 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B16

Township: 2S Range: 1W Section: 36 33.9472 lat. -116.9322 lng.

Temperature: Water: 3 oC Air: 8 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 11 m x 3 m

estimated maximum: 8 cm estimated maximum: 13 m x 5 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road, pasture

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1445 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B3

Township: 2S Range: 1W Section: 35 33.9494 lat. -116.9621 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 2 cm at time of sampling: 1 m x 1 m

estimated maximum: 10 cm estimated maximum: 8 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1450 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B4

Township: 2S Range: 1W Section: 35 33.9493 lat. -116.9614 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 7 m x 6 m

estimated maximum: 10 cm estimated maximum: 13 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1450 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B5

Township: 2S Range: 1W Section: 35 33.9492 lat. -116.9604 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 3 cm at time of sampling: 8 m x 1 m

estimated maximum: 10 cm estimated maximum: 12 m x 5 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1455 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B6

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9595 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 6 cm at time of sampling: 12 m x 5 m

estimated maximum: 12 cm estimated maximum: 17 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1500 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B7

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9591 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 7 cm at time of sampling: 10 m x 5 m

estimated maximum: 12 cm estimated maximum: 16 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1500 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B8

Township: 2S Range: 1W Section: 35 33.9489 lat. -116.9580 long.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 7 m x 2 m

estimated maximum: 10 cm estimated maximum: 10 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 5**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1505 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B9

Township: 2S Range: 1W Section: 35 33.9488 lat. -116.9569 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 7 cm at time of sampling: 9 m x 4 m

estimated maximum: 14 cm estimated maximum: 14 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1505 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B10

Township: 2S Range: 1W Section: 35 33.9488 lat. -116.9567 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 9 m x 5 m

estimated maximum: 12 cm estimated maximum: 14 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 12 / 21 / 12 Time: 1345 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B18

Township: 3S Range: 1E Section: 5 33.9470 lat. -116.9018 lng.

Temperature: Water: 12 oC Air: 13 oC

Pool Depth: Surface Area:

at time of sampling: 10 cm at time of sampling: 9 m x 2 m

estimated maximum: 14 cm estimated maximum: 17 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 5

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.

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 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>
----------------	----------------------	----------------------------	---------------

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 03 / 13 Time: 1700 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B18

Township: 3S Range: 1E Section: 5 33.9470 lat. -116.9018 lng.

Temperature: Water: 5 oC Air: 8 oC

Pool Depth: Surface Area:

at time of sampling: 10 cm at time of sampling: 9 m x 2 m

estimated maximum: 14 cm estimated maximum: 17 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 03 / 13 Time: 1740 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B19

Township: 3S Range: 1E Section: 5 33.9465 lat. -116.8954 lng.

Temperature: Water: 5 oC Air: 8 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 9 m x 4 m

estimated maximum: 16 cm estimated maximum: 16 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1445 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B2

Township: 2S Range: 1W Section: 35 33.9495 lat. -116.9633 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 9 m x 3 m

estimated maximum: 9 cm estimated maximum: 15 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1450 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B3

Township: 2S Range: 1W Section: 35 33.9494 lat. -116.9621 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 3 m x 1 m

estimated maximum: 10 cm estimated maximum: 8 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1455 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B4

Township: 2S Range: 1W Section: 35 33.9493 lat. -116.9614 lng.

Temperature: Water: 10 oC Air: 04 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 8 m x 6 m

estimated maximum: 10 cm estimated maximum: 13 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1500 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B5

Township: 2S Range: 1W Section: 35 33.9492 lat. -116.9604 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 2 cm at time of sampling: 4 m x 0.5 m

estimated maximum: 10 cm estimated maximum: 12 m x 5 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 0

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1503 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B6

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9595 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 6 cm at time of sampling: 12 m x 5 m

estimated maximum: 12 cm estimated maximum: 17 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1505 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B7

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9591 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 10 m x 5 m

estimated maximum: 12 cm estimated maximum: 16 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1510 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B8

Township: 2S Range: 1W Section: 35 33.9489 lat. -116.9580 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 3 cm at time of sampling: 5 m x 1 m

estimated maximum: 10 cm estimated maximum: 10 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes
 Required color slides and/or photographs for the project site are included: ____ no Yes yes
 Date: 01 / 04 / 13 Time: 1515 County: Riverside Quad: Beaumont
 Collector(s): Stan Spencer Permit #: 777965
 Site/Project Name: SCE West of Devers: E of El Casco Pool #: B9
 Township: 2S Range: 1W Section: 35 33.9488 lat. -116.9569 lng.
 Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 8 m x 4 m
 estimated maximum: 14 cm estimated maximum: 14 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 04 / 13 Time: 1520 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B10

Township: 2S Range: 1W Section: 35 33.9488 lat. -116.9567 lng.

Temperature: Water: 10 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 8 cm at time of sampling: 8 m x 5 m

estimated maximum: 12 cm estimated maximum: 14 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 18 / 13 Time: 1600 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B2

Township: 2S Range: 1W Section: 35 33.9495 lat. -116.9633 lng.

Temperature: Water: 11 oC Air: 20 oC

Pool Depth: Surface Area:

at time of sampling: 4 cm at time of sampling: 3 m x 1 m

estimated maximum: 9 cm estimated maximum: 15 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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)

Branchinecta lindahli, 1, pre

Notostracans: (note reproductive status)

(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>
----------------	----------------------	----------------------------	---------------

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 yes

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

Date: 01 / 18 / 13 Time: 1600 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B4

Township: 2S Range: 1W Section: 35 33.9493 lat. -116.9614 lng.

Temperature: Water: 11 oC Air: 20 oC

Pool Depth: Surface Area:

at time of sampling: 3 cm at time of sampling: 3 m x 2 m

estimated maximum: 10 cm estimated maximum: 13 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:

dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 18 / 13 Time: 1620 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B6

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9595 lng.

Temperature: Water: 11 oC Air: 20 oC

Pool Depth: Surface Area:

at time of sampling: 1 cm at time of sampling: 1 m x 0.2 m

estimated maximum: 12 cm estimated maximum: 17 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 18 / 13 Time: 1620 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B7

Township: 2S Range: 1W Section: 35 33.9491 lat. -116.9591 lng.

Temperature: Water: 11 oC Air: 20 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 7 m x 4 m

estimated maximum: 12 cm estimated maximum: 16 m x 8 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 0**

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 31 / 13 Time: 0815 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B1

Township: 2S Range: 1W Section: 35 33.9497 lat. -116.9632 long.

Temperature: Water: 9 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 3 cm at time of sampling: 1 m x 1 m

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

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road, pasture

(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: PERCENT CLOUD COVER: 2

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 31 / 13 Time: 0820 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B2

Township: 2S Range: 1W Section: 35 33.9495 lat. -116.9633 lng.

Temperature: Water: 9 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 12 m x 5 m

estimated maximum: 9 cm estimated maximum: 15 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 2

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 31 / 13 Time: 0825 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B3

Township: 2S Range: 1W Section: 35 33.9494 lat. -116.9621 lng.

Temperature: Water: 9 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 6 m x 4 m

estimated maximum: 10 cm estimated maximum: 8 m x 6 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: PERCENT CLOUD COVER: 2

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.

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 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>
----------------	----------------------	----------------------------	---------------

**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 yes

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

Date: 01 / 31 / 13 Time: 0830 County: Riverside Quad: Beaumont

Collector(s): Stan Spencer Permit #: 777965

Site/Project Name: SCE West of Devers: E of El Casco Pool #: B4

Township: 2S Range: 1W Section: 35 33.9493 lat. -116.9614 lng.

Temperature: Water: 9 oC Air: 14 oC

Pool Depth: Surface Area:

at time of sampling: 5 cm at time of sampling: 6 m x 6 m

estimated maximum: 10 cm estimated maximum: 13 m x 7 m

Habitat Condition: (circle where appropriate)

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

- land use of habitat:
dirt road

(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: **PERCENT CLOUD COVER: 2**

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.