## DOCKETED

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<tr>
<th><strong>Docket Number:</strong></th>
<th>09-AFC-07C</th>
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<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Palen Solar Power Project - Compliance</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>200188</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>PSH’s RESPONSE TO STAFF’S 8/2/13 EMAIL REQUEST</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Filer:</strong></td>
<td>Marie Fleming</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>Galati</td>
</tr>
<tr>
<td><strong>Submitter Role:</strong></td>
<td>Applicant's Representative</td>
</tr>
<tr>
<td><strong>Submission Date:</strong></td>
<td>8/13/2013 4:48:40 PM</td>
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<tr>
<td><strong>Docketed Date:</strong></td>
<td>8/13/2013</td>
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</table>
August 13, 2013

California Energy Commission  
Dockets Unit  
1516 Ninth Street  
Sacramento, CA 95814-5512

Subject: PSH’s RESPONSE TO STAFF’S 8/2/13 EMAIL REQUEST-ADDITIONAL DATA SHEETS AND CNDDB REPORT FORMS FOR SPRING 2013 SUPPLEMENTAL BIOLOGICAL RESOURCE SURVEYS PALEN SOLAR ELECTRIC GENERATING SYSTEM DOCKET NO. (09-AFC-7C)

Enclosed for filing with the California Energy Commission is the electronic version of PSH’s RESPONSE TO STAFF’S 8/2/13 EMAIL REQUEST-ADDITIONAL DATA SHEETS AND CNDDB REPORT FORMS FOR SPRING 2013 SUPPLEMENTAL BIOLOGICAL RESOURCE SURVEYS, for Palen Solar Electric Generating System (09-AFC-7C).

Sincerely,

Marie Fleming
Jennifer, Ann, and Christine:

Please see our responses below embedded into Ann’s email to Jennifer and Christine. Marie Fleming will docket this email and the attached PDFs.

Andrea Grenier

From: Martin-Gallardo, Jennifer@Energy [mailto:Jennifer.Martin-Gallardo@energy.ca.gov]
Sent: Wednesday, August 07, 2013 9:35 AM
To: Andrea@agrenier.com; Scott Galati
Subject: FW: Palen - questions for BSE

FYI. Please give me a call to discuss.

Thanks!

Jen

From: Crisp, Ann@Energy
Sent: Wednesday, August 07, 2013 8:25 AM
To: Martin-Gallardo, Jennifer@Energy; Stora, Christine@Energy
Cc: Knight, Eric@Energy; Ali, Anwar@Energy; Watson, Carol@Energy; ‘Chris Huntley’
Subject: FW: Palen - questions for BSE

Hi Jen

I need answers to these questions ASAP to get into my analysis, as well as the promised Lake and Streambed Alteration Notification.

Thanks!

Ann
Hi Jen,

This is the information I require from PSH to complete the FSA.

Missing information from SUPPLEMENTAL SPRING 2013 BIOLOGICAL SURVEYS Report (not addressing avian and bats)

- Per the methods in the Supplemental Spring Survey Report (July 2013) it states that “All individuals of cacti, yucca and trees protected by the California Desert Native Plant Act (CDNPA) also were tallied, with mapping occurring by individuals, populations or Project segment, depending on biological relevancy or practicality.” A map of these species tallied on page 25, Table 4.

  *Response: This is a County requirement which only requires the tabulated data already provided by segment in Table 4. None of the BLM cactus species were present on the modified linears.*

- Burrowing Owl survey report: Signed field forms, photos, etc., as appendices to the field survey report. Only a sample form from the survey on May 5 was provided.

  *Response: Please see additional data sheets attached to this email. These are being provided solely to assist Staff—please note that submittal of field forms is only a recommendation in the protocols, and not a specific requirement. Photos were provided in the report.*

- Desert Tortoise and all other wildlife: Need all data sheets from all surveys not just sample data sheets.

  *Response: Please see additional data sheets attached to this email. These are being provided solely to assist Staff—submittal of field forms is not required by any protocols.*

Clarification on PSH LLC’s Final Sand Transport Study
Are both columns on Table 1, page 13 impacts to Zone 3. Please provide indirect impacts based on percentage reduction of sand input ranges of: “25 - 50%”, “50 - 75%”, “75 - 100%”. This group of ranges is what was used to determine indirect impacts for the approved PSPP and used in the BIO-29 table.

*Response: PSH does not agree with the break down proposed by Staff. A revised figure that removes the word “deflation” from Figure 18 will be docketed as soon as possible.*

Clarification of how MFTL BIO-29 acres of direct impacts were calculated
Confirm which GIS files were used to calculate acres of direct impact and send to Energy Commission cartography if not already provided and provide description of how MFTL acres were calculated.

*Response: We received a similar email request from Jacque Gilbreath – our GIS consultant, Neil Storey, has communicated with her on this issue and we believe it is resolved.*

Thanks!

Ann
### Scientific Name: *Athene cunicularia*

### Common Name: Burrowing owl

- **Species Found?**
  - Yes [x]
  - No [ ]

- **Total No. Individuals:** 1

- **Subsequent Visit?**
  - Yes [ ]
  - No [x]
  - unk. [ ]

- **Is this an existing NDBB occurrence?**
  - Yes, Occ. # [ ]
  - No [x]
  - unk. [ ]

### Reporter: Alice Karl

- **Address:** P.O. Box 74006
  - Davis, CA 95617

- **E-mail Address:** heliophile@mindspring.com

- **Phone:** (530) 666-9567

### Plant Information

**Phenology:**
- vegetative [ ]
- flowering [ ]
- fruiting [ ]

### Animal Information

<table>
<thead>
<tr>
<th>#</th>
<th>#</th>
<th>#</th>
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</tr>
</thead>
<tbody>
<tr>
<td>adults</td>
<td>juveniles</td>
<td>larvae</td>
<td>egg masses</td>
</tr>
<tr>
<td>wintering</td>
<td>breeding</td>
<td>nesting</td>
<td>rookery</td>
</tr>
<tr>
<td>burrow site</td>
<td>other</td>
<td></td>
<td></td>
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</tbody>
</table>

### Location Description (please attach map AND/OR fill out your choice of coordinates, below)

- **East of Desert Center, north of I-10 near Corn Springs exit**

- **County:** Riverside

- **Landowner / Mgr.:** BLM

- **Quad Name:**

- **Elevation:**

- **Source of Coordinates (GPS, topo. map & type):**

- **GPS Make & Model:** Garmin Map 76CSx

- **Horizontal Accuracy:** 3m meters/feet

- **Coordinate System:**
  - UTM Zone 10 [ ]
  - UTM Zone 11 [x]
  - OR [ ]

- **Coordinates:** 0665070E 3727736N

- **DATUM:** NAD27 [x]

### Habitat Description (plants & animals)

**plant communities, dominants, associates, substrates/soils, aspects/slope:**

**Animal Behavior** (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

- Single bird; flew from perch. No definitive coversite found, although possible burrow at 0665067E 3727684N

Please fill out separate form for other rare taxa seen at this site.

### Site Information

- **Overall site/occurrence quality/viability (site + population):**
  - Excellent [ ]
  - Good [x]
  - Fair [ ]
  - Poor [ ]

- **Immediate AND surrounding land use:**

- **Visible disturbances:**

- **Threats:**

- **Comments:**

### Determination:

- (check one or more, and fill in blanks)
  - Keyed (cite reference): [ ]
  - Compared with specimen housed at: [ ]
  - Compared with photo / drawing in: [ ]
  - By another person (name): [ ]

### Photographs:

- (check one or more)
  - Plant / animal [ ]
  - Habitat [ ]
  - Diagnostic feature [ ]

- **May we obtain duplicates at our expense?** yes [x] no [ ]
California Native Species Field Survey Form

Scientific Name: *Athene cunicularia*

Common Name: Burrowing owl

Species Found? [ ] Yes [ ] No  
If not, why?  ____________________________________________________________

Total No. Individuals [ ] 1  Subsequent Visit? [ ] yes [ ] no  
Is this an existing NDDB occurrence? [ ] yes, Occ. #  
Collection? If yes: [ ] Number [ ] Museum / Herbarium

Date of Field Work (mm/dd/yyyy): 04/07/2013

Plant Information

Phenology:

<table>
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<th>Vegetative</th>
<th>Flowering</th>
<th>Fruiting</th>
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</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Animal Information

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<th># adults</th>
<th># juveniles</th>
<th># larvae</th>
<th># egg masses</th>
<th># unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
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<td>[ ]</td>
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<td>[ ]</td>
</tr>
</tbody>
</table>

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

East of Desert Center, north of I-10

County: Riverside  
Landowner / Mgr.: BLM

Quad Name:  
T__ R__ Sec__ 1/4 of ___. Meridian: H° M° S°  
Source of Coordinates (GPS, topo. map & type):  
GPS Make & Model: Gamin Map 76CSx

DATUM: NAD27 [ ] NAD83 [ ] WGS84 [ ]  
Horizontal Accuracy 3m meters/feet

Coordinate System: UTM Zone 10 [ ] UTM Zone 11 [ ] OR Geographic (Latitude & Longitude) [ ]

Coordinates: 0656370E 3730844N

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/sols, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Single bird in wash; flew. No burrow.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): [ ] Excellent [ ] Good [ ] Fair [ ] Poor

Immediate AND surrounding land use:  
Visible disturbances:

Threats:

Comments:

Determination: (check one or more, and fill in blanks)

[ ] Keyed (cite reference):  
[ ] Compared with specimen housed at:  
[ ] Compared with photo / drawing in:  
[ ] By another person (name):  
[ ] Other:

Photographs: (check one or more)  
Plant / animal  
Habitat  
Diagnostic feature

May we obtain duplicates at our expense? [ ] Yes [ ] No
**California Natural Species Field Survey Form**

**Scientific Name:** *Lanius ludovicianus*  
**Common Name:** Loggerhead shrike

---

**Species Found?**  
- [ ] Yes  
- [ ] No

**Total No. Individuals**  
- [ ] 2

**Is this an existing NODB occurrence?**  
- [ ] Yes, Occ. #

**Collection?**  
- [ ] If yes: Number

---

**Location Description**  
(please attach map AND/OR fill out your choice of coordinates, below)

*East of Desert Center, north of I-10*

- **County:** Riverside  
- **Landowner / Mgr.:** BLM

**Quad Name:**  
- T____ R____ Sec____, 1/4 of _______ 1/4, Meridian: H____ M____ SC

**Source of Coordinates (GPS, topo. map & type):**

**DATUM:** NAD27 [ ] NAD83 [ ] WGS84 [ ]

**Horizontal Accuracy:** 3m meters/feet  
**Coordinate System:** UTM Zone 10 [ ] UTM Zone 11 [ ] OR Geographic (Latitude & Longitude)

**Coordinates:** 06S 0607E 3731582N

---

**Habitat Description (plants & animals)**  
plant communities, dominants, associates, substrates/soils, aspects/slope:

**Animal Behavior**  
(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Juvenile begging to adult.

---

Please fill out separate form for other rare taxa seen at this site.

**Site Information**  
Overall site/occurrence quality/viability (site + population):

- [ ] Excellent  
- [ ] Good  
- [ ] Fair  
- [ ] Poor

Immediate AND surrounding land use:

**Visible disturbances:**

**Threats:**

**Comments:**

---

**Determination:**  
(check one or more, and fill in blanks)

- [ ] Keyed (cite reference):
- [ ] Compared with specimen housed at:
- [ ] Compared with photo / drawing in:
- [ ] By another person (name):

**Photographs:**  
(check one or more)

- [ ] Plant / animal  
- [ ] Habitat  
- [ ] Diagnostic feature

**May we obtain duplicates at our expense?**  
- [ ] Yes  
- [ ] No
Date of Field Work (mm/dd/yyyy): 05/05/2018

California Native Species Field Survey Form

Scientific Name: *Lanius ludovicianus*

Common Name: **Loggerhead shrike**

Species Found? [ ] Yes [ ] No □ If not, why?

Total No. Individuals □ Subsequent Visit? [ ] Yes [ ] No □

Is this an existing NODDB occurrence? [ ] Yes, Occ. □ [ ] No □ unk.

Collection? If yes: □ Number □ Museum □ Herbarium

<table>
<thead>
<tr>
<th>Plant Information</th>
<th>Animal Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenology:</td>
<td># adults</td>
</tr>
<tr>
<td>vegetative %</td>
<td>[ ] wintering</td>
</tr>
<tr>
<td>flowering %</td>
<td>[ ]</td>
</tr>
<tr>
<td>fruting %</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

East of Desert Center, north of I-10

County: **Riverside**

Quad Name: □ Landowner / Mgr.: **BLM**

Elevation: □ Source of Coordinates (GPS, topo. map & type):

T____ R____ Sec____, ____¼ of ____¼, Meridian: □ W □ S □

T____ R____ Sec____, ____¼ of ____¼, Meridian: □ W □ S □

DATUM: NAD27 □ NAD83 □ WGS84 □ GPS Make & Model: **Garmin Map 76CSx**

Horizontal Accuracy: 3m meters/feet

Coordinate System: □ UTM Zone 10 □ UTM Zone 11 □ OR Geographic (Latitude & Longitude): □

Coordinates: 0656022E 3731523N

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Adult, perched on Olneya

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): [ ] Excellent [ ] Good [ ] Fair [ ] Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

Determination: (check one or more, and fill in blanks)

[ ] Keyed (site reference):

[ ] Compared with specimen housed at:

[ ] Compared with photo / drawing in:

[ ] By another person (name):

Photographs: (check one or more)

Plant / animal □ Habitat □ Diagnostic feature □
California Native Species Field Survey Form

Scientific Name: Lanius ludovicianus

Common Name: Loggerhead shrike

Species Found? [Yes] [No] If not, why?

Total No. Individuals [ ] Subsequent Visit? [Yes] [No] [No]

Is this an existing NDDB occurrence? [Yes] [Occ. #] [No] [Unknown]

Collection? [Yes] [If yes: Number] [Museum / Herbarium]

Plant Information

Phenology: [ ] vegetative [ ] flowering [ ] fruiting

Percentage:

Animal Information

No. of # adults # juveniles # larvae # egg masses # unknown

[ ] wintering [ ] breeding [ ] nesting [ ] rookery [ ] burrow site [ ] other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

East of Desert Center, north of 1-10

County: Riverside

Landowner / Mgr.: BLM

Quad Name:

Source of Coordinates (GPS, topo. map & type):

DATUM: NAD27 [ ] NAD83 [ ] WGS84 [ ]

Horizontal Accuracy [ ] meters/feet

Coordinate System: UTM Zone 10 [ ] UTM Zone 11 [ ] OR Geographic (Latitude & Longitude) [ ]

Coordinates: 37°31'37.3''N

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

(heard)

Site Information Overall site/occurrence quality/viability (site + population):

[ ] Excellent [ ] Good [ ] Fair [ ] Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

Determination: [check one or more, and fill in blanks)

[ ] Keyed (site reference):

[ ] Compared with specimen housed at:

[ ] By another person (name):

Photographs: (check one or more)

[ ] Slide [ ] Print [ ] Digital

Can we obtain duplicates of our evidence? [ ] Yes [ ] No
Date of Field Work (mm/dd/yyyy): 05/05/09

California Native Species Field Survey Form

Scientific Name: Lanius ludovicianus

Common Name: Loggerhead shrike

Species Found? Yes ☐ No ☐
If not, why?

Total No. Individuals 2

Subsequent Visit? Yes ☐ No ☐

Is this an existing NDB occurrence? Yes, Occ. #

Collection? If yes: Number __________ Museum __________ Herbarium __________

Plant Information

Phenology: % vegetative % flowering % fruiting %

Animal Information

2 # adults # juveniles # larvae # egg masses # unknown

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

East of Desert Center, north of I-10

County: Riverside

Landowner / Mgr.: BLM

Quad Name: ___________________________

Source of Coordinates (GPS, topo. map & type): ___________________________

DATUM: NAD27 ☐ NAD83 ☐ WGS84 ☐

GPS Make & Model: Garmin Map 76CSx

Horizontal Accuracy: 3m meters/feet

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ OR Geographic (Latitude & Longitude) ☐

Coordinates: 0655958E 3731052N

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna): Perched

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): ☐ Excellent ☐ Good ☐ Fair ☐ Poor

Immediate AND surrounding land use:

Visible disturbances:

Threats:

Comments:

Determination: (check one or more, and fill in blanks)

Keyed (cite reference):

Compared with specimen housed at:

Compared with photo / drawing in:

By another person (name):

Photographs: (check one or more) Slide Print Digital

Plant / animal Habitat Diagnostic feature

May we obtain duplicates at our expense? ☐ Yes ☐ No
DATE: 7 April 2013
TIME: Start 08:20  End 10:47
WEATHER:

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<th>Cloud Cover</th>
<th>Wind</th>
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</thead>
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<tr>
<td>Start</td>
<td>22.4</td>
<td>23.5</td>
<td>30% cloudy</td>
<td>N - 8</td>
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<td>End</td>
<td>27.0</td>
<td>15.6</td>
<td>35.8</td>
<td>100% clear</td>
</tr>
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</table>

Recent Weather: clear, warm

GENERAL SITE DESCRIPTION:
VEGETATION SHRUB LAYER AND BUNCH GRASSES

Aspect Dominants

Common Species

Occasional Species

Justice B. S. U

% Cover

Avg. Height of Dominant Shrub Species

UNDERSTORY

Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

Not obvious

TOPOGRAPHY

Landform: Lower bajada

Drainage Type

Elevation (state meters or feet)

SUBSTRATE

Color

Coarse Particles (Type, % Cover)

Soil Texture and Consistence

PRESENCE OF PREDATORS:

Coyotes - # Detected

Ravens - # Detected

Scat Piles - # Nest

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

RESIDENCE (part-time) unoccupied

S. U. C. (1972) 100% cleared

SITE PICTURE: Photographer

COMMENTS

No bat sign in culvert - Cultured is actually a cement box, 200' long.
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size</th>
<th>Burrow Location</th>
<th>In/Out</th>
<th>Live Tortoise</th>
<th>Evidence of Disease?</th>
<th>Photo</th>
<th>who's camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PTC 01</td>
<td>0655947</td>
<td>Skull</td>
<td>D+</td>
<td>Ad.</td>
<td>Prob old 7</td>
<td>Yes</td>
<td>3-4 fragmented shell &amp; plates</td>
<td></td>
<td></td>
<td></td>
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</table>

**DESER T TOR O ISE**

**OTHER SPECIES**
DATE: 07 April 2013
TIME: Start 13:25
End 19:20
WEATHER:

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<tr>
<th>Ta</th>
<th>Tg</th>
<th>Cloud Cover</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>End</td>
<td>29.1</td>
<td>29.5</td>
<td>30</td>
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</tbody>
</table>

Recent Weather:

GENERAL SITE DESCRIPTION:
VEGETATION (SHRUB LAYER AND BUNCH GRASSES)
Aspect Dominants

Common Species

Occasional Species

% Cover
Avg. Height of Dominant Shrub Species

UNDERSTORY
Abundant Species
Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY
Landform
Drainage Type
Elevation (state meters or feet)

SUBSTRATE
Color
Coarse Particles (Type, % Cover)
Soil Texture and Consistence

PRESENCE OF PREDATORS: Ravens - # Detected
Coyotes - # Detected
Scat? Scat Piles

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

SITE PICTURE: Photographer

A - Form
B - From end (identify)
C - From other end (identify)
D - Other

COMMENTS
<table>
<thead>
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<th>Sign Type</th>
<th>Class</th>
<th>Size Width</th>
<th>Burrow Location</th>
<th>In/Out</th>
<th>Evidence of Disease?</th>
<th>Live Tortoise</th>
<th>Photo who's camera</th>
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<tbody>
<tr>
<td>0</td>
<td>PTD 03</td>
<td>06 56 180</td>
<td>Burrow</td>
<td>4</td>
<td>360</td>
<td>Sandy-silt wash</td>
<td>In</td>
<td>Pretty dry wood size old shape - could be cactus dry</td>
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**DESERT TORTOISE**

<table>
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<tr>
<th>Sign Waypoint UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Condition</th>
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</table>

**OTHER SPECIES**

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<th>Waypoint LD.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Sign Type</th>
<th>Condition</th>
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</thead>
</table>

<table>
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<tr>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sign #</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>01</td>
</tr>
<tr>
<td>02</td>
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**Other Species**

<table>
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<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
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</thead>
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**Map Sign and Habitat**

Show: Direction of Travel
Origin
N
DATE: 7 April 2013
TIME: Start 12:40
End 14:13
WEATHER:

<table>
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<th>Ta °F</th>
<th>Tg °C</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
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<td>29.4</td>
<td>36.91</td>
<td>100% cirrostratus</td>
</tr>
<tr>
<td>End</td>
<td>32.1</td>
<td>0.6</td>
<td>100% cirrostratus</td>
</tr>
</tbody>
</table>

Recent Weather: Clear, warm

GENERAL SITE DESCRIPTION:
VEGETATION SHRUB LAYER AND BUNCH GRASSES)
Aspect Dominants

Common Species
- Same as raw
- Occasional noted

Occasional Species

% Cover
Avg. Height of Dominant Shrub Species

UNDERSTORY
Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY
Landform

Drainage Type
Near dry, on north side, is very light

Elevation (state meters or feet)

SUBSTRATE
Color

Coarse Particles (Type, % Cover)

Soil Texture and Consistence

PRESENCE OF PREDATORS: Ravens - # Detected 0
Coyotes - # Detected

Scat?

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

Same as raw. Many old tracks on PP.

SITE PICTURE: Photographer

A - Form
B - From end (identify)
C - From other end (identify)
D - Other

COMMENTS

No bat sign in condition.
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint ID</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign Condition</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PAS 4850001</td>
<td>06565536</td>
<td>Odontokesاهتمانة</td>
<td>Start</td>
<td>This Spring</td>
<td>Near the large wash that goes under Hwy in color.</td>
</tr>
<tr>
<td>02</td>
<td>PAA 4402402</td>
<td>37310899</td>
<td>Burrow</td>
<td>Individual</td>
<td>Saw an adult, didn't see a burrow.</td>
<td></td>
</tr>
</tbody>
</table>
DATE: 7 April 2013
LINEAR OR OTHER I.D.: T111 400 E Bufi

MAP LEGEND:

- = D D W

- = well-developed d s p m p

Shallow basin (12-15 m)

Very light sheet, incipient d p
L A T R A (mod slope), scra (small olte)

Many small faults
Low with fault (trend)

Well-defined weather,
iscoated < 1 m,
fluv. broad patches
of well-formed dry wash

I removed in wash
must be reduced
from sebkha (~250 m)

Note 2: On S side wash
95 m to 400 m is a wash
due to cozy junct. No columns

Note 7: Along the wash on the N
t side from 400 to
280 m E there are no substantial
columns or any substantial
works. There is no wash
The only wash is the one
the only wash is the one
the only wash is the one
the only wash is the one
DATE 7. April 2013  
TIME:  Start 16:29  
End 18:21  A. Karl  

WEATHER:  

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.1</td>
<td>33.4</td>
<td>Weak</td>
</tr>
<tr>
<td>32%</td>
<td>33%</td>
<td></td>
</tr>
<tr>
<td>42.4</td>
<td>40.8</td>
<td></td>
</tr>
</tbody>
</table>

LINEAR I.D. T-Line 600 m  

Location relative to I-10 N-S  
Northern UTM 06S 5970 E 3731832 N  
Southern UTM 06S 6597 E 8730255 N  
(NAD 83)  

TOTAL TRANSECT WIDTH 10 A  
(note FT or M)  

SURVEYORS: Navigator A. Karl  

PROJECT Paiute Solar Electric Generating System  
2013 SPECIAL-STATUS SPECIES SURVEYS  

GENERAL SITE DESCRIPTION: 
VEGETATION SHRUB LAYER AND BUNCH GRASSES) 
Aspect Dominants  

Common Species  

% Cover Avg. Height of Dominant Shrub Species  

Occasional Species  

UNDERSTORY 
Abundant Species  

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)  

TOPOGRAPHY  
Landform  

Drainage Type Not much sheet flow  
Incurv washes intermittent w/ small d.p. patches  
Elevation (state meters or feet)  
No end only  

SUBSTRATE  
Color  

Coarse Particles (Type, % Cover)  

Very large patches of dark soil, well-developed d.p.  

Soil Texture and Consistency  

PRESENCE OF PREDATORS: Ravens - # Detected  
Coyotes - # Detected  

Scat?  

Scat Piles  

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)  

Many old tracks (4WD) on d.p.  

SITE PICTURE: Photographer  

A - Form  
B - From end (identify)  
C - From other end (identify)  
D - Other  

COMMENTS  

No bat sign abs. in culverts
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (ss, bur, tr)</th>
<th>MC3. (shel, tort)</th>
<th>Burrow Location</th>
<th>InOut Burrow?</th>
<th>Evidence of Disease?</th>
<th>Live Tortoise</th>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

**Desert Tortoise**

**Other Species**

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PAS 600E 01</td>
<td>3720320</td>
<td>ODO 16EM</td>
<td>Scat</td>
<td>TYZ</td>
<td></td>
<td>In wash next @ Hwy</td>
</tr>
</tbody>
</table>

|        |               |              |         |      |       |           |          |
### 2013 SPECIAL-STATUS SPECIES SURVEYS

**DATE:** 2013

**WEATHER:**
- **Start:** Ta 30
- **End:** Ta 35

**TIME:** Start: 3:30
- **End:** 3:45

### Recent Weather:
- Ta Ta 30
- Cloud Cover: 7-10
- Wind: 30
- Humidity: 85
- Air: 68

### Site Information:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear</td>
<td>10 m</td>
</tr>
<tr>
<td>Location</td>
<td>NAD 83</td>
</tr>
</tbody>
</table>

### Surveyors:
- Navigator
- GPS
- Total Transect Width: 10 m

### Vegetation Description:
- **Shrub Layer and Bunch Grasses**

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Dominants</th>
<th>Common Species</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

### Presence of Predators:
- **Ravens**
- **Coyotes**

### Human-Related Disturbances:

### Comments:

### General Site Description:

#### Vegetation

<table>
<thead>
<tr>
<th>Dominant</th>
<th>Common Species</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

#### Substrate

<table>
<thead>
<tr>
<th>Color</th>
<th>Coarse Particles (Type, % Cover)</th>
<th>Soil Texture and Consistency</th>
<th>Drainage Type</th>
<th>Elevation (state meters or feet)</th>
</tr>
</thead>
<tbody>
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</table>

#### Topography

<table>
<thead>
<tr>
<th>Landform</th>
<th>Drainage Type</th>
<th>Elevation (state meters or feet)</th>
</tr>
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<tbody>
<tr>
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</table>

#### Understory

<table>
<thead>
<tr>
<th>Abundant Species</th>
<th>Occasional Species</th>
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</thead>
<tbody>
<tr>
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</table>

| Exotic (Map concentrations and describe here relative to population size and geographic breadth) |
|                                                                                         |

#### Presence of Predators:

- **Ravens**
- **Coyotes**

#### Human-Related Disturbances:

#### Comments:

**Note:** SAME AS 600 West
<table>
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<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size</th>
<th>Burrow Location</th>
<th>In/Out Burrow?</th>
<th>Live Tortoise Evidence of Disease?</th>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
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<th>Sign #</th>
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<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
</tr>
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</tbody>
</table>

Map Sign and Habitat

Show: Direction of Travel

Origin

N
DATE 07/07/2013
TIME: Start 12:20
End 14:30
WEATHER:

<table>
<thead>
<tr>
<th>Start</th>
<th>Ta</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>29.4</td>
<td>30.6</td>
<td>Rainy</td>
<td>57 NORTHEAST</td>
</tr>
<tr>
<td>End</td>
<td>30.0</td>
<td>31.5</td>
<td>30</td>
<td>99% Tim</td>
</tr>
</tbody>
</table>

Recent Weather: Clear i. Hot

GENERAL SITE DESCRIPTION:

VEGETATION SHRUB LAYER AND BUNCH GRASSES)

Aspect Dominants

Common Species

Occasional Species

% Cover
Avg. Height of Dominant Shrub Species

UNDERSTORY

Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY

Landform

Drainage Type

Elevation (state meters or feet)

SUBSTRATE

Color

Coarse Particles (Type, % Cover)

Soil Texture and Consistence

PRESENCE OF PREDATORS: Ravens - # Detected

Coyotes - # Detected

Seal? 495

Seal Piles

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent) - 1 mile east of park entrance, 1 mile north of road. No new or recent development. Overgrown vegetation.

SITE PICTURE: Photographer

A - Form
B - From end (identify) = Street (see map) "270°"
C - From other end (identify) = see map "360°"

COMMENTS
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (sc, bur, in)</th>
<th>Burrow Location</th>
<th>In/Out Burrow?</th>
<th>Evidence of Disease?</th>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PTB 02</td>
<td>0495 718, 3132 494</td>
<td>Burrow</td>
<td>5</td>
<td>&gt; 340</td>
<td>Return 2 UGTKs</td>
<td></td>
<td>Totally Colapsedy</td>
<td></td>
</tr>
</tbody>
</table>

**DESER T OR TOISE**

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
</tr>
</thead>
</table>

**OTHER SPECIES**
DATE 29 April 2013
TIME: Start End
WEATHER:

<table>
<thead>
<tr>
<th></th>
<th>Ta</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End</td>
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</tbody>
</table>

Recent Weather:

GENERAL SITE DESCRIPTION:
VEGETATION SHRUB LAYER AND BUNCH GRASSES)
Aspect Dominants

Common Species

Occasional Species

% Cover
Avg. Height of Dominant Shrub Species

UNDERSTORY
Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY
Landform

Drainage Type

Elevation (state meters or feet)

SUBSTRATE
Color
Coarse Particles (Type, % Cover)
Soil Texture and Consistency

PRESENCE OF PREDATORS: Ravens - # Detected
Coyotes - # Detected
Scat? Scat Piles

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

SITE PICTURE: Photographer
A - Form
B - From end (identify)
C - From other end (identify)
D - Other

COMMENTS

(Note - I initially misread "Bridge B" as the location for a bridge. It should not have a bridge @ this location.)
DATE: April 2013
TIME: Start 1302, End 1318
WEATHER:

<table>
<thead>
<tr>
<th></th>
<th>Tg</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>30.2</td>
<td>48.4</td>
<td>0</td>
<td>W-1.2</td>
</tr>
<tr>
<td>End</td>
<td>Same (10 minutes)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recent Weather: clear but...

GENERAL SITE DESCRIPTION:
VEGETATION SHUB LAYER AND BUNCH GRASSES)
Aspect Dominants: LAT-TZ

Common Species: AWOO OLTE 1+4 54
Occasional Species: OPEC

% Cover: 73% in open areas; 3-4% in back channels
Avg. Height of Dominant Shrub Species: ≤ 0.6 m

UNDERSTORY
Abundant Species:
CHICA / PLOV / Pecto comos spp
Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY
Landform: Bay/Dr

Drainage Type: Sheet; very volked

Elevation (state meters or feet): 650'

SUBSTRATE
Color: modified gray to nearly black
Coarse Particles (Type, % Cover): Rilled sand w/ small cobbles in sheeting
Soil Texture and Consistency: soft, gravelly loamy sand

PRESENCE OF PREDATORS: Ravens - # Detected, # Nests

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent): I-10, I-10, I-10?

SITE PICTURE: Photographer: Karl
A - Form, B - From end (identify), C - From other end (identify), D - Other
COMMENTS: OLTE - mostly dead or dying due to truncation of I-10 flow from I-10
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (sc., bur. in)</th>
<th>Burrow Location</th>
<th>In Out Burrow?</th>
<th>Live Tortoise Evidence of Disease?</th>
<th>Photo who's camera</th>
</tr>
</thead>
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</table>

### OTHER SPECIES

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD83)</th>
<th>Species</th>
<th>Type</th>
<th>Condition</th>
<th>Comments</th>
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</tbody>
</table>
PROJECT: Palen Solar Electric Generating System

DATE: 29 April 2013
LINEAR OR OTHER I.D.: Gas line/linear W of I-10

MAP LEGEND:
- Palen Solar Electric Generating System
- Transects: show start and end by direction and transect number or UTM

Note: 1 inch = 100 ft

Legend:
- Arroyo sheet
- old sheet flow thru DP (gradual)
- leaving small dep, possibly dead flow
  "sheet flow transect"
- many OLTE holders
- new OLTE holders
- old OLTE holders
- transect 1-2
- transect 3
- transect 4

Legend:
- Map scale: 1 inch = 100 ft
- Map orientation: North up

Legend:
- Open width for pavement
- T-10
- 5727667
- 0669264
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (cm, bur, in)</th>
<th>Burrow Location?</th>
<th>Live Tortoise</th>
<th>Evidence of Disease?</th>
<th>Photo who's camera</th>
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**DESERT TORTOISE**

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</tbody>
</table>

Show: Direction of Travel

Origin
TRANSECT: show start, and end by direction and transect number or UTMT

PROJECT: Palen Solar Electric Generating System

DATE: 2/9/13
LINEAR OR OTHER I.D.: Gas line W - 200 E + W

MAP LEGEND:

At bank sheet, very rilled (garden)
Many yard trees

At bank sheet, most OLTS 2.15'
or most cleared or dying

200W
**DATE** 29 April 2013  
**TIME:** Start 1403-1419 (E 400)  
End 1730 April 0846-0845 (W 400)  
**WEATHER:**

<table>
<thead>
<tr>
<th>Start</th>
<th>T</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>39.4</td>
<td>51.7</td>
<td>50</td>
<td>0</td>
</tr>
</tbody>
</table>

- **SURVEYORS:** Navigator
- **GPS**:
- **Data**:

**LINEAR L.D.:** Gas Line 400m E-W

- **Location relative to I-10:** North
- **Northern UTM:** 0665356 E 3752752 N
- **Southern UTM:** 0665351 E 3727529 N
  
  **(NAD 83)**

**TOTAL TRANSECT WIDTH:** 10m

**WEATHER:**

- **End:** 28.4 31.3 702cms NE 2

**General Site Description:**

**Vegation Shrub Layer and Bunch Grasses**

- **Aspect Dominants**

**Common Species**

**Occasional Species**

**% Cover**

**Avg. Height of Dominant Shrub Species**

**Understory**

- **Abundant Species**

**Exotics (Map concentrations and describe here relative to population size and geographic breadth.)**

**Topography**

- **Landform**

**Drainage Type**

**Elevation (state meters or feet)**

**Substrate**

- **Color**
- **Coarse Particles (Type, % Cover)**
- **Soil Texture and Consistence**

**Presence of Predators:**

- **Ravens - # Detected**
- **Coyotes - # Detected**

- **Cats? Scat Piles**

**Human-Related Disturbances (Onsite and Adjacent)**

**Site Picture:**

- **A - Form**
- **B - From end (identify)**
- **C - From other end (identify)**
- **D - Other**

**Comments**
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size</th>
<th>Burrow Location</th>
<th>In/Out</th>
<th>Burrow?</th>
<th>Evidence of Disease?</th>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PEN 4085 01</td>
<td>3725 43</td>
<td>Shell</td>
<td>part</td>
<td>&gt;H</td>
<td>In metan (≈19048)</td>
<td>Present</td>
<td>Anal plate</td>
<td>In Neotoma midden</td>
<td></td>
</tr>
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</table>

**Other Species**

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign Condition</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
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</tr>
</tbody>
</table>
DATE: 29 April 2013
TIME: Start 13:28 - 14:33
WEATHER:

<table>
<thead>
<tr>
<th>Tab</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>600 E</td>
<td>60.9</td>
<td>&gt;50</td>
</tr>
<tr>
<td>End</td>
<td>34.6</td>
<td>40.6</td>
<td>652 E, W</td>
</tr>
</tbody>
</table>

Recent Weather:

**GENERAL SITE DESCRIPTION:**

**VEGETATION SHRUB LAYER AND BUNCH GRASSES**

Aspect Dominants

- Bridge - P505P1 (N9A)
  - Common Species
- Bridge - CEFL
  - Occasional Species

- % Cover
- Avg. Height of Dominant Shrub Species: 600 W - 0.45 - 2.0' LATER - 1.1' m

**UNDERSTORY**

- Abundant Species

- Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

**TOPOGRAPHY**

- Landform

- Drainage Type

- Elevation (state meters or feet)

**SUBSTRATE**

- Color

- Coarse Particles (Type, % Cover)

- Soil Texture and Consistence

- PRESENCE OF PREDATORS:
  - Ravens - # Detected: 0
  - Coyotes: # Detected: 0
  - Scat?: 0
  - Scat Piles: 0

**HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)**

- Lin, w/anc. (checks & detects counter... mostly) along nd.

**SITE PICTURE:**

- Photographer: Karl

- A - Form
- B - From end (identify)
- C - From other end (identify)
- D - Other

- COMMENTS: Bridge - way - rodents track. No deer, tort, coyote. zebra between. No bat sign.
### DESERT TORTOISE

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (sc, bur, tr) MCL (shell, tort)</th>
<th>Burrow Location</th>
<th>In/Out Burrow?</th>
<th>Live Tortoise Evidence of Disease?</th>
<th>Photo who's camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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### OTHER SPECIES

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</tbody>
</table>
DATE: April 7, 2013
TIME: Start 7:22 - 8:54 am on April 7
End 8:45 - 9:15 am on April 7

WEATHER:

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:22</td>
<td>8:45</td>
</tr>
</tbody>
</table>

Cloud Cover: Clear
Wind: NE 1

SURVEYORS: Navigator: Karl
GPS Data:

LINEAR I.D.: Gas line - 200 m buffer

Location relative to I-10: 50 ft N
Northern UTM: 0465160 E 3726867 N
Southern UTM: 0465160 E 3726867 N
(NAD 83)

TOTAL TRANSECT WIDTH: 10 m
(none of FT or M)

LOCATION RELATIVE TO I-10:

STOP
On Apr 7, 04:47:32
37.24.912 (Fag)

TOTAL SITE DATA:

Fag

1. 0465160 E 3726867 N

3. 0465160 E 3726867 N

NORTH END:

1. 0465160 E 3726867 N

2. 0465160 E 3726867 N

GENERAL SITE DESCRIPTION:

VEGETATION SHRUB LAYER AND BUNCH GRASSES)

Aspect Dominants

Also CL TE, inn shrubs (in most drainages) 9-11 bld drainages)

Common Species

ANDU

145+ in more well-developed drainages

with higher water volume/holding

Occasional Species

CYCRA, CYCLECH

% Cover of drainages: <1 = >5

Avg. Height of Dominant Shrub Species

Latte = 1 m out of drainages; >1 m = 1.5 m in better water

UNDERSTORY

Abundant Species

CHAENACTIS, PLOV, CRAN

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

None dos (e.g. SCIT-BAR)

TOPOGRAPHY

Landform:

Bajada

Drainage Type:

Sheet (some times), often: wet, only (ALT) or dry flow ANDU

OC TE. Some sheet, dry only (1 in dry) or sedal

Also, surface shallow, dotted species requests, mostly

well-developed aboreal water, mostly

very shallow, Sandy bottoms

Elevation (state meters or feet):

650'

SUBSTRATE

Color:

Muddy greens to black

Coarse Particles (Type, % Cover)

75% sand, 25% silt, gravel, sea rad

small pebbles, well-developed, broad dip, patchy gravel

Soil Texture and Consistence

Soft, very loamy, coarse sand, gravelly, solid

DP: 99% very, 1% sandy loamy

PRESENCE OF PREDATORS: Ravens - # Detected

Coyotes - # Detected

Scat? - # Detected

Scat Piles - # Nests

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

Clockwork Rod 3 large Wastewater
lines (DPV 1+2, Bsp?)

Many (residue remaining) old tracks across pavement and near I-10 Grab

SITE PICTURE (Photographer: Karl)

A - Form

B - From end (identify)

C - From other end (identify)

D - Other

COMMENTS:

This is taoisee habitat, albeit low density.

Very low cover and fairly minimal tracks.
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (sc, bur, tr) MCL (shelf, tort)</th>
<th>Burrow Location</th>
<th>in/out Burrow?</th>
<th>Live Tortoise?</th>
<th>Evidence of Disease?</th>
<th>Photo</th>
<th>who's camera</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Note: The many sandy drainage plans provide abundant opportunity to see Tortoises. Saw many Necropsy heads, one kit fox, smaller rodents, naked shrews.

<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint L.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PG-200 06/24/97 E 01 372745</td>
<td>Odocoileus hem. Tracts</td>
<td>Fresh</td>
<td></td>
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</tbody>
</table>
PROJECT Palen Solar Electric Generating System

TRANSECTS: show start, and end by direction and transect number or IITM

DATE Apr. 25, 2013
LINEAR OR OTHER I.D. map legend:

Apr. 25 - 1601-1603 (Part 1)
1751-1816 (Part 2)
DATE: 27 April 2013
TIME: Start 14:09
        End 17:35
WEATHER:

<table>
<thead>
<tr>
<th>T</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>32.4</td>
<td>41.6</td>
<td>0</td>
</tr>
<tr>
<td>End</td>
<td>34.3</td>
<td>33.2</td>
<td>0</td>
</tr>
</tbody>
</table>
Recent Weather: Clear, warm

GENERAL SITE DESCRIPTION:
VEGETATION (SHRUB LAYER AND BUNCH GRASSES)
Aspect Dominants

Common Species

Occasional Species

% Cover __________________________
Avg. Height of Dominant Shrub Species ________________

UNDERSTORY
Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

TOPOGRAPHY
Landform

Drainage Type

Elevation (state meters or feet)

SUBSTRATE
Color

Coarse Particles (Type, % Cover)

Soil Texture and Consistence

PRESENCE OF PREDATORS: Ravens - # Detected ___ 0 _______ # Nests ___ 0 ___
Coyotes - # Detected ___ 0 _______ Scat? _______ Scat Piles _______

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

SITE PICTURE: Photographer Karl  

A - Form [ ]  
B - From end (identify)  
C - From other end (identify)  
D - Other  

COMMENTS
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign</th>
<th>Condition</th>
<th>Comments</th>
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</tbody>
</table>

### Desert Tortoise

- **Sign Type**: Variable
- **Class**: Variable
- **Size**: Variable
- **Burrow Location**: Variable
- **Live Tortoise**: Variable
- **Evidence of Disease?**: Variable
- **Photo who's camera**: Variable

### Other Species

- **Species**: Variable
- **Type**: Variable
- **Sign**: Variable
- **Condition**: Variable
- **Comments**: Variable
DATE: 30 April 2013
TIME: Start 10:47
End 12:53

WEATHER:

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ta: 35.8</td>
<td>Ta: 38.6</td>
</tr>
<tr>
<td>Tg: 43.2</td>
<td>Tg: 48.7</td>
</tr>
<tr>
<td>Cloud Cover: 65%</td>
<td>Cloud Cover: 80%</td>
</tr>
<tr>
<td>N 2-3</td>
<td>S 4-7</td>
</tr>
</tbody>
</table>

Recent Weather: Clear, hot

GENERAL SITE DESCRIPTION:

VEGETATION SHRUB LAYER AND BUNCH GRASSES

Aspect Dominants

Common Species

Occasional Species

Understory Abundant Species

Exotics (Map concentrations and describe here relative to population size and geographic breadth.)

None, very obvious. Tomarrie & main wash varies of Chuckwalla &

TOPOGRAPHY

Landform: Byada, gentle, very sl. und in d.p. areas, to 1 ft flat.

Drainage Type

Elevation (state meters or feet)

SUBSTRATE

Color

Coarse Particles (Type, % Cover)

Soil Texture and Consistence

PRESENCE OF PREDATORS: Coyotes

Presumed Predators: Ravens

HUMAN-RELATED DISTURBANCES (Onsite and Adjacent)

SITE PICTURE: Photograph

A - Form (✓)  B - From end (identify)  C - From other end (identify)  D - Other

COMMENTS

Note: From ~ 300 E to 600 E, I walked in the freeway swale, and much disturbance around the utility conduits (4 ft-6 ft). Chuckwalla 4' old barn blocking Hwy upstream of road.
<table>
<thead>
<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Sign Type</th>
<th>Class</th>
<th>Size Width (bc, bur, tr)</th>
<th>NCL (shelf, tnt)</th>
<th>Burrow Location</th>
<th>In/Out Burrow?</th>
<th>Evidence of Disease?</th>
<th>Live Tortoise</th>
<th>Photo who's camera</th>
</tr>
</thead>
</table>

**OTHER SPECIES**

<table>
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<tr>
<th>Sign #</th>
<th>Waypoint I.D.</th>
<th>UTM (NAD 83)</th>
<th>Species</th>
<th>Type</th>
<th>Sign Condition</th>
<th>Comments</th>
</tr>
</thead>
</table>

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*Map Sign and Habitat*

*Show: Direction of Travel Origin*
Palo ~ T-line (T-linearea) 1st ~ March 29, 2013

tupiurus arizonicus  BFF  LELA
Cyperg ang  Crypt. phone
Cyperg. barks  Crypt. phone (coll. 2)
Euph. poly  Recto leleu
Ech. glyphi  Tha than
Cyper. mantim
Cyper. rev
PHACRE
Comm. elav
Comm. bcrv
Mente. involv  F
hot.  BFF
Mentzellar (alb.)
Comm. (albem.)  F
MATE
Gilla  BFF
some only in bud
Chamaeleon caph.  BF
 opinión (Eremalche) on
Amsinckia  =
NADZ  Calycoc. MATE
(Calyx. wrightii)  F  plus sand more
Pecto. recurv  BFF
SCH4Z
Sim. thomasi  F
**PROJECT Palen SEGS**  
**BURROWING OWL PHASE 3 SURVEY**

**DATE:** May 05, 2013  
**TIME:** Start 05:53  
**End 11:05**

**WEATHER:**
- **Ta:** 20.9°F  
- **Cloud Cover:** SL, Conca  
- **Wind:** SW 0-2

**Observations:**
- **0553:** ATEFL  
  - Heard ~ 200' N
- **0621:** LSH - 054518 37.1522 SW 0-2  
  - TV. heag, head, then saw 5 adult  
- **0628:** LSH - 065022 37.1523  
  - Heard ofote 500' N  
  - Heard ~ 200' N
- **0632:** ATEFL  
  - Heard ~ 200' N
- **0635:** Verdun  
  - 2 Indiv. in OLTE (Wish), 150' S
- **0655:** Wil Warbl  
  - Foraging ~ 80'  
  - Heard ~ 250-300' NW
- **0715:** ATEFL  
  - Heard ~ 200-300' N
- **0719:** ATEFL  
  - Heard when saw 175' W
  - Heard when passed ~ 180 m N
- **0728:** LSH  
  - Flies ~ 100' SW  
  - Heard ~ 300-400' W
- **0743:** MEQO
  - Flying ~ 100' SW
- **0748:** ATEFL  
  - Heard ~ 300-400' W
- **0851:** LSH - 0156039 37.183  
  - Heard ~ 100 m E
- **0903:** LSH - 0153585 37.307  
  - Heard when saw, penciled, 180' W
- **0913:** Wil Warbl & Perinid  
  - Foraging in OLTE
- **0936:** ATEFL  
  - Heard ~ 250-300' S
- **0938:** BTSP  
  - Foraging ~ 100' ENE
- **0954:** V VSN, BTLN, Lk Sparrow  
  - Foraging ~ 100 m W of Row, foraging
- **1001:** Wil Warbl & BTSP
- **1026:** Started Path 6, north. 0 @ start
- **1034:** V Wil Warbl  
  - Heard ~ 200-250' W
- **1039:** BTLN  
  - Heard ~ 300' SW
- **1036:** BTLN  
  - Heard ~ 200' NW
- **1050:** LSH (Prob. one off  
  - Heard ~ 180-200 m E; then saw ~ 2 Indiv.

**Note:**
- D. straight poles are 285 m apart
- Higher, quick, wings & sluuly (were seen in many many more with some of individ. of these sp.) off in 100 m W of Row.
- LSA, BTR, BTLN, BTLN, CERL.

**General Area in Project:** Gen. Br.
Note Re: Path #6 - It's 20m W of row edge, but only about 3m from D. Sunlight pole. So, gas thru Mi construction (6 candles) area.
DATE: 05 May 2013
TIME: Start 12:26
End 19:50

PROJECT Palen SEGS
BURROWING OWL PHASE 3 SURVEY

WEATHER:

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1841</td>
<td>Left south side - no activity (birds), no burrows</td>
<td></td>
</tr>
<tr>
<td>1901</td>
<td>Bird on centerline (Transsect 05)</td>
<td></td>
</tr>
<tr>
<td>1919</td>
<td>No LA</td>
<td></td>
</tr>
<tr>
<td>1931</td>
<td>End TR 8</td>
<td></td>
</tr>
<tr>
<td>1936</td>
<td>No LA</td>
<td></td>
</tr>
<tr>
<td>1941</td>
<td>Finished TR 729; quitting dark but still light enough to see birds and burrows</td>
<td></td>
</tr>
<tr>
<td>1943</td>
<td>Walked back up row for last Transsect N.</td>
<td></td>
</tr>
<tr>
<td>1946</td>
<td>No LA</td>
<td></td>
</tr>
</tbody>
</table>

OBSERVER: Karl

General Area in Project: 600 61W

(Draw map of survey on back of form)
DATE: 25-26 JAN 2013
TIME: Start 17:40 / 06:30
       End 20:50 / 09:05

WEATHER:

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Horned Lark (weak possible)</td>
<td>1 vocalizations only</td>
</tr>
<tr>
<td>17:50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:55</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>18:05</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>18:10</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>18:45</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>18:50</td>
<td>Horned Lark</td>
<td>6 vocalist's only</td>
</tr>
<tr>
<td>20:50</td>
<td>Horned Lark (no possible)</td>
<td></td>
</tr>
<tr>
<td>06:50</td>
<td>Horned Lark</td>
<td>7 vocalizations only</td>
</tr>
<tr>
<td>08:15</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>08:45</td>
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<td>9</td>
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</table>
**PALEN BUOY SURVEY**, May 25, 2013 / PM
**TRANSMISSION LINE**, May 26

<table>
<thead>
<tr>
<th></th>
<th>Y</th>
<th>Row</th>
<th>40W</th>
<th>40E</th>
<th>120E</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>V A</td>
<td>V A</td>
<td>V A</td>
<td>V A</td>
</tr>
<tr>
<td>1566</td>
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<td>1500</td>
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<td>1300</td>
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<td>800</td>
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<td>700</td>
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<td>600</td>
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<td>200</td>
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<td>0</td>
<td></td>
<td>V</td>
<td>V</td>
<td>V</td>
<td></td>
</tr>
</tbody>
</table>

**V = Visual results of 100 m binocular sweep**
**Ad = Audio results during 100 m binocular sweep**
**HL = Horned Lark**
**VOC = Bird calls heard - mostly Horned Lark**
**PC = Possibly, undetected**
**= No observation**
**PROJECT**  |  Palo Secs  |  **BURROWING OWL PHASE 3 SURVEY**
--- | --- | ---
**DATE:**  | **TIME:**  | **GAS LINE**  
25 MAY 2013 | Start: 07:30 | **PAUL FRANK**
End: 10:10 | **General Area in Project:**  | **T 10**
(Draw map of survey on back of form)

**WEATHER:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Cloud Cover</th>
<th>Wind</th>
<th>See Map</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:35</td>
<td>Horned Lark (also possible)</td>
<td>25</td>
<td>Calm</td>
<td></td>
<td>1. Vocalizations</td>
</tr>
<tr>
<td>07:40</td>
<td>Horned Lark</td>
<td>20</td>
<td>Clear</td>
<td>1</td>
<td>2. Vocalizations and one bird flying</td>
</tr>
</tbody>
</table>
| 09:30 | Burrowing Owl | 32 | Calm | 1 | 3. Owl observed flying (31-37) from assumed cavity (31-39) which was a pile of concrete. I did not see the owl fly from this location but it came from near the pile. It would have made an excellent cavity. No owl sign was found at that location or at a Dead Ironwood Tree the Owl perched on (31-37). No other possible cavities or burrows (31-37) or any owl sign was found in this area. The Owl flew to the NE and was not seen again.
| 09:40 | Horned Lark (also possible) | 25 | Calm | | 4. Vocalizations (No live birds seen) |
| 09:45 | | | | | 5 |
| 09:50 | | | | | 6 |
| 10:00 | | | | | 7 |
| 10:05 | | | | | 8 |

**DATE:** 25 MAY 2013  
**TIME:** Start: 07:30  
End: 10:10  
**WEATHER:**  

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Cloud Cover</th>
<th>Wind</th>
<th>See Map</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
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<td></td>
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</tr>
<tr>
<td>07:40</td>
<td>Horned Lark</td>
<td>20</td>
<td>Clear</td>
<td>1</td>
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</tr>
</tbody>
</table>
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| 09:45 | | | | | 5 |
| 09:50 | | | | | 6 |
| 10:00 | | | | | 7 |
| 10:05 | | | | | 8 |
### PALEIN BUOY SURVEY May 25 2013

**Gulf Line**

**First Light -> 11:00**

<table>
<thead>
<tr>
<th>NORTH END</th>
<th>40W</th>
<th>ROW</th>
<th>40E</th>
<th>120E</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900</td>
<td>0°ψ 07:50</td>
<td>0°ψ 08:15</td>
<td>0°ψ</td>
<td>(0°ψ 08:20)</td>
</tr>
<tr>
<td>0800</td>
<td>ψψ</td>
<td>ψψ</td>
<td>ψψ</td>
<td>ψψ</td>
</tr>
<tr>
<td>0700 - Fence</td>
<td>0°ψ</td>
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<tr>
<td>0600 - Fence</td>
<td>ψψ</td>
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</tbody>
</table>

**South End**

**BUO 01** was found NE as I scanned.

**BUO 02** may have been using as cover, old pile of concrete blocks - no sign.

**BUO 03** was seen.

**BUO 02** had sandbag. Water over patched - no sign.

<table>
<thead>
<tr>
<th>BUO 01</th>
<th>06 65 010</th>
<th>37 27</th>
<th>736</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUO 02</td>
<td>06 65 067</td>
<td>37 27</td>
<td>684</td>
</tr>
<tr>
<td>BUO 03</td>
<td>06 65 185</td>
<td>37 27</td>
<td>821</td>
</tr>
</tbody>
</table>
PALEW SEAS
BURRING OWL
Pulse 3 Survey
GAS LINE
25 May 2013
07:30 - 10:10

06 64 936 - Site the owl was second using (100 sqm)
37 27 681

06 65 067 - Possible cover
37 27 684

04 65 123 - Dead from owl
37 27 821

03 65 076 - Location Burrowing Owl was observed from
37 27 736

Fence

 Interstate Hwy 10
Fence

06 64 944
37 27 840

X = Location & binocular surveys
✓ = Observations made during binocular surveys

1 = Observation Minuter

30 M WEST
40 M EAST
120 M EAST

START 07:30
END 10:10
**DATE:** 27 June 2013  
**TIME:** Start 05:20  
End 06:31  
**WEATHER:**  
<table>
<thead>
<tr>
<th>Start</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.4</td>
<td>0</td>
<td>W-2</td>
</tr>
<tr>
<td>38.4</td>
<td>0</td>
<td>S-3</td>
</tr>
</tbody>
</table>

**PROJECt, P.len SEGS**  
**BURROWING OWL PHASE 3 SURVEY**  
**OBSERVER:** Karl  
**General Area in Project:** Can-Tie  

(Draw map of survey on back of form)  
**Note:** 04:44 - Too dark  
05:09 - Too dark  
05:20 - Too dark

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>05:20</td>
<td>Begin Tr-01</td>
<td></td>
</tr>
<tr>
<td>05:25</td>
<td>Cactus wren</td>
<td>Mixed ~180 m E (Myloc. 06/557 3731936)</td>
</tr>
<tr>
<td>05:35</td>
<td>A + Flycatcher</td>
<td>Mixed ~100 m ENE - Location N</td>
</tr>
<tr>
<td>05:44</td>
<td>A + Flycatcher</td>
<td>Heard r-150 m ESE (Different bird?)</td>
</tr>
<tr>
<td>05:45</td>
<td>A + Flycatcher</td>
<td>Mixed ~100 m WSW -</td>
</tr>
<tr>
<td>05:53</td>
<td>B + Great-tailed (3)</td>
<td>Heard when saw, ~25 m E (Myloc. 9633957)</td>
</tr>
<tr>
<td>06:08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06:19</td>
<td>Begin Tr-02</td>
<td></td>
</tr>
<tr>
<td>06:17</td>
<td>Vendid</td>
<td>Nest only, in CEF 3, on N side of column</td>
</tr>
<tr>
<td>06:23</td>
<td>B + Great-tailed</td>
<td>12 m swn, in CEF 3</td>
</tr>
<tr>
<td>06:28</td>
<td>B + Great-tailed</td>
<td>Heard ~50 m upstream</td>
</tr>
<tr>
<td>06:39</td>
<td>Begin Tr-03</td>
<td></td>
</tr>
<tr>
<td>06:42</td>
<td>B + Great-tailed</td>
<td>Heard ~90 m NNE in CEF 3, group</td>
</tr>
<tr>
<td>06:45</td>
<td>End Tr-03</td>
<td></td>
</tr>
<tr>
<td>06:48</td>
<td>Begin Tr-04</td>
<td></td>
</tr>
<tr>
<td>06:47</td>
<td>Vendid</td>
<td>Heard ~30 m NNE in CEF 3, next to I-1</td>
</tr>
<tr>
<td>07:00</td>
<td>End Tr-04</td>
<td></td>
</tr>
<tr>
<td>07:44</td>
<td>Begin Tr-05 (80m E)</td>
<td></td>
</tr>
<tr>
<td>07:15</td>
<td>A + Fly</td>
<td>Mixed ~200 m ENE</td>
</tr>
<tr>
<td>07:30</td>
<td>A + Fly</td>
<td>Mixed ~150 m SSE</td>
</tr>
<tr>
<td>07:30</td>
<td>Cactus wren - 2</td>
<td>Heard, then saw, one ~100 m W, just after 12:30</td>
</tr>
<tr>
<td>07:39</td>
<td>End Tr-05</td>
<td>(Note: Same as one heard earlier)</td>
</tr>
<tr>
<td>07:40</td>
<td>Tr-06</td>
<td></td>
</tr>
<tr>
<td>08:25</td>
<td>B + Fly</td>
<td>Heard ~125 m SSW</td>
</tr>
<tr>
<td>08:35</td>
<td>Vendid</td>
<td>Heard, then saw, in CEF 3, group among</td>
</tr>
<tr>
<td>08:41</td>
<td>End Tr-06</td>
<td></td>
</tr>
<tr>
<td>08:44</td>
<td>Start Tr-07</td>
<td></td>
</tr>
<tr>
<td>08:48</td>
<td>Vendid</td>
<td>Heard ~80 m E</td>
</tr>
<tr>
<td>09:31</td>
<td>End Tr-07</td>
<td></td>
</tr>
</tbody>
</table>
### Project: Palen SEGS
#### Burrowing Owl Phase 3 Survey

**Date:** 26 Jun 2013  
**Time:** Start 17:57  
**End:** 20:19

**Sunset:** 19:51h  
**Sunrise:** 05:29h  
(05:30 on 6/27)

**Observer:** Karl

**General Area in Project:** Gas Line  
(Start on north side, then move S/S)

(Draw map of survey on back of form)

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1757</td>
<td>Transect 01</td>
<td>No birds</td>
</tr>
<tr>
<td>1800-1810</td>
<td>Tr. 02</td>
<td>No birds</td>
</tr>
<tr>
<td>1820-1830</td>
<td>Tr. 03</td>
<td>No birds</td>
</tr>
<tr>
<td>1830-1840</td>
<td>Tr. 04</td>
<td>No birds</td>
</tr>
<tr>
<td>1840-1850</td>
<td>Tr. 05</td>
<td>No birds</td>
</tr>
<tr>
<td>1900-1910</td>
<td>Und.</td>
<td>Head (under tree)</td>
</tr>
<tr>
<td>1940-1950</td>
<td>Tr. 06</td>
<td>No birds</td>
</tr>
<tr>
<td>1949-2000</td>
<td>Tr. 07</td>
<td>No birds</td>
</tr>
<tr>
<td>2008-2019</td>
<td>Tr. 08</td>
<td>No birds</td>
</tr>
</tbody>
</table>

**Notes:** 2019 is a good year. We are close to closing on 6 very far.
PROJECT: Palen Solar Energy Generating System
2013 SPECIAL-STATUS PLANT SPECIES SURVEYS

DATE: 3 - 30 2013
TIME: Start 7 o'clock - 8:45
End 8:45

WEATHER:

<table>
<thead>
<tr>
<th>Start</th>
<th>Ta</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>73°F</td>
<td>72.4°F</td>
<td>99.7%</td>
<td>Ø</td>
</tr>
<tr>
<td>End</td>
<td>74.8°F</td>
<td>74.8°F</td>
<td>95%</td>
<td>2.1</td>
</tr>
</tbody>
</table>

LEGEND:
- DP: Desert Puft
- Wash

SURVEYORS: Navigator: Galen Rink
GPS: Galen Rink
Data: Tim Thomas

LINEAR ID: E 3-5

Location relative to I-10 S side of N
Northern UTM: 664940 E 3727840 N
Southern UTM: 664922 E 3726937 N
(NAD 83)

TOTAL TRANSECT WIDTH: 12’
(note FT or M)

- Show transects: start and end by direction and transect number
- Map plant populations by sign number
- Map and briefly describe hydrology, desert pavement, and dunes

Photos:
- Form
  - 1: S-N
  - 2: N-S
<table>
<thead>
<tr>
<th>SIGN NUMBER</th>
<th>WYPT #</th>
<th>UTM (NAD 83)</th>
<th>SPECIES</th>
<th>PHENOLOGICAL STAGE</th>
<th>PLANT VIGOR (e.g., height, robustness)</th>
<th>PHOTO (check, whose camera)</th>
<th>VOUCHER (check, who has, reference number)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Shrub Dominants</td>
<td>Other Shrubs</td>
<td>Herbaceous Associates</td>
<td>Topography</td>
<td>Soils and Substrates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Number of Plants</td>
<td>Area (m²) or length of population (if in drainage)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Anthropogenic</td>
<td>Invasives (Sp, Abundance)</td>
<td>Natural</td>
<td></td>
<td></td>
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<td></td>
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<td>Invasives (Sp, Abundance)</td>
<td>Natural</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DATE/MAR 30 2013
TIME: Start 9:45
End 1:00
WEATHER:

<table>
<thead>
<tr>
<th></th>
<th>Ta</th>
<th>Tg</th>
<th>Cloud Cover</th>
<th>Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>85</td>
<td>82.5</td>
<td>58%</td>
<td>2</td>
</tr>
<tr>
<td>End</td>
<td>89</td>
<td>9.4</td>
<td>&lt;5%</td>
<td>6 - 8</td>
</tr>
</tbody>
</table>

LEGEND:
- Show transects: start, and end by direction and transect number
- Map plant populations by sign number
- Map and briefly describe hydrology, desert pavement, and dunes

LINEAR ID
Location relative to I-10
Northern UTM 655557 E 3751764 N
Southern UTM 655057 E 3751764 N (NAD 83)
TOTAL TRANSECT WIDTH 10 m
(note FT or ft)

PROJECT: Palen Solar Energy Generating System
2013 SPECIAL-STATUS PLANT SPECIES SURVEYS
SURVEYORS: Navigator Glen Rink
          GPS Glen Rink
          Data Tim Beres

Photos: ✓
Form □
<table>
<thead>
<tr>
<th>SIGN NUMBER</th>
<th>WYPT #</th>
<th>UTM (NAD 83)</th>
<th>SPECIES</th>
<th>PHENOLOGICAL STAGE</th>
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<th>PHOTO (check, whose camera)</th>
<th>VOUCHER (check, who has, reference number)</th>
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</thead>
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