Copies

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Carrizo Valley Solar Ranch Project
Spotlight Survey

Moon - waxing
9:56 hours ~ 90% full

Date: 6-3-09 into 6-4-09 **Biologist (Lead):** Tom Olson
Assistant: John Davis
Location of Survey: Driving mostly perimeter of study area
Start Time: ~~2025~~ 2135 14.4°C = 58°F **End Time:** 0120
Weather Conditions at Start: T ~ 55°F Wind 2-3 mph & Clear skies
Weather Conditions at End: T ~ 48°F Little wind
Equipment Used (spotlights, binoculars):
1-million candlepower spotlights.
Swarovsky 10x40 binoculars
Describe Route Driven, including habitat types traversed:
Perimeter, starting in NW position on SR 58. Turned onto Belmont, then onto Black Bear. In SW corner cut thru fields (cross-country driving).
OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting
Drive speed 5-10 mph, values unsafe (on some portions of SR 58)

Other species

Jackrabbit - 5 Cottontail - At least 10
K rats (giant?) - 3 at one location Coyote - 1 possible

? ① SJKF - Waypoint 245 Adult 2210
115 0239125 South of SR 58 by 200'
3915982 Traveling. Short ann. grass

✓ ② SJKF - Waypoint 246 Small-~~[illegible]~~ subadult? 2240
115 0238921 W of Belmont Rd by 225'
3911116 Traveling - somewhat taller grass

✓ ③ SJKF - Waypoint 247 Adult 2245
115 0238610 At jct of Benicia & Belmont?
3910922 or Benicia & Black Bear?
Under rd sign w/ street names
Again, somewhat taller grass

✓ ④ SJKF Waypoint 248 Adult 2310
115 0236510 Hunting. South of Belmont? or
3911915 Black Bear? by 100-125'.

✓ ⑤ SJKF Waypoint 249 Adult 2320
115 0236518 Traveling 150' off Belmont
3912260 Somewhat taller grass
Near Beverly Hills & Black Bear
~~[illegible]~~
Undulating terrain

Carrizo Valley Solar Ranch Project
Spotlight Survey

Date: 6-3-09 into 6-4-09 cont'd. **Biologist (Lead):** _____
Assistant: _____
Location of Survey: _____
Start Time: _____ **End Time:** _____
Weather Conditions at Start: _____
Weather Conditions at End: _____
Equipment Used (spotlights, binoculars): _____

Describe Route Driven, including habitat types traversed: _____

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

(6) SJKF Waypoint 250 Adult 0025
115 0233842 Traveling in west-central portion
3922795 Grass slightly taller.

Same point?

(7) SJKF Waypoint 251 Adult 0030
115 0233842 Traveling
3912795 Hilly area - X-country

(8) SJKF Waypoint ~~250~~ 253 0100
115 0234424 Adult.
3915134 Traveling
Driving parallel to SR 58. 300' S of SR 58

GKR observation. Waypt. 252
115 0235208 150' off Main Ranch Rd.
3914664
At least 3 K rats observed - where GKR sign was observed earlier. South of old house.

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 10 Jun 2009

Lead Surveyor: John Davis
Assistant Surveyor: Paul Collins
Assistant Surveyor: Alyssa Berry

Location of Survey: SunPower
Start Time: 9:30 **End Time:** 1:01 AM
Weather Conditions at Start: Clear, Calm 14.1°C; dark no moon
Weather Conditions at End: Moon 2/3 rise 11:00 PM Clear, N Wind 2-4 mph 12.5°C
Equipment Used (spotlights, binoculars):

Describe Route Driven, including habitat types traversed:
Worked interior portions of the site

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

9:36 Pallid Bat WP-310 UTM 0234453 3915563 Foraging
Foraging 30 ft S. of Barbed Wire Fence
10:50 K. Rat (n=2) + burrows UTM 0234421 3914084
Other small mammal scat 4-5 mm. scat
Lg rodent scat 11x12 mm.
11:14 Colony K. Rat 1 Ad + burrow + Haystack 0234944 3913795
11:25 Pallid Bat - flushed off ground UTM 0235306 3913668
#1 11:47 SJ Kit Fox - sitting on ground. UTM 0236292 3913751
~20 ft SE of Fatalist
11:54 SJ Kit Fox (n=3 juvs) foraging UTM 0236445 3913624

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 6/10/09

Lead Surveyor: Carie Wingert
Assistant Surveyor: Wayne Vogler
Assistant Surveyor: Ronald Cummings

Location of Survey: California Valley Sun Power Solar Ranch.
Start Time: 2150 **End Time:** 0055 hrs
Weather Conditions at Start: Clear, calm, temps high 50's. (14°C)
Weather Conditions at End:
Equipment Used (spotlights, binoculars):
& GPS.

Describe Route Driven, including habitat types traversed:
T line area, Hwy 58, along SE corner of project site.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

2202 = At gate of Hwy 58 & T line = very small K-rat (size of the end of a thumb)
2217 = T line = riparian area Bush rabbit & Jack rabbit x 3
#1 ✓ 2223 = 5 0234213 3918315 probable Kit fox ≈ 200 yards to E N E. + 3 young K-fox ??
Den site probable ...
#2 ✓ 2238 = 0233569 3919201 Kit Fox in full view 30 yards to east.
#3 ✓ 2249 = 0233445 3919333 probable K. fox ≈ 200 yards to east. Ran south up hill.
#4 ✓ 2259 = 0233751 3919060 Kit Fox in full view 30 yd to east, resting
~~23:12 0234314 3917593~~ outside of den.
23:12 0234314 3917593 barn owl flushed away from vegetation along roadside
23:16 0234263 3917145 barn owl hunting 30 m east; tried to grab something
23:14 moon rise over horizon
23:22 jack rabbit hopping
23:40 Start eastbound Hwy 58, east of Ranch entrance
#5 ✓ 23:58 0238042 3913582 young adult SJKF walking 20 m N of Hwy
#6 ✓ 23:59 0238042 3913582 possible SJKF on hill slope 100 m N of Hwy
0:06 0238537 3912994 coyote running 80 m South of Hwy
#7 ✓ 0:11 0238716 3912707 likely SJKF sitting/lying 100 m North of Hwy
0:16 0238952 3912136 Krat in road
#8 ✓ 0:29 0238851 3910916 SJKF foraging 70 m to north
#9 ✓ 0:48 0237130 3910785 SJKF lying down in grass, then fled 50 m north

RECEIVED
JUN 19 2009
URS CORPORATION
Santa Barbara

Carrizo Valley Solar Ranch Project
Spotlight Survey

Date: 6-17-09 **Biologist (Lead):** Olson
Assistant: Davis, Compton
Location of Survey: See GPS-mapped route
Start Time: 2135 **End Time:** 0110
Weather Conditions at Start: Clear, cool, wind @ 4-5 mph
Weather Conditions at End: Clear, cool, calm
Equipment Used (spotlights, binoculars):
2 spotlights - each 2-million candlepower
Swarovsky 10x42 binoculars
Describe Route Driven, including habitat types traversed:
Started & ended at ranch road. See GPS-tracked route.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

① 2150 BUOW. near KF burrow that we have photographed.

#345 on map? ② 2225 Probable kit fox - among kangaroo rat burrows. At a distance - no ~~definite~~ confirming observation. Appropriate eyeshine.
0234121 3914081

#346 ③ 2345 - kit fox (3, including 2 adults & 1 juv) At 2 burrow entrances. Very good observation
0234787 3911213

#347 ④ 0015 kit fox crossing ranch road
Waypoint 347
0234915 3913272
Good observation. Watched kit fox for several minutes.

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 6-17-09

Lead Surveyor: Carie Wingert
Assistant Surveyor: Wayne Voelker
Assistant Surveyor: Ronald Cummings

Location of Survey: Outside = North end of Cambria street. W side of Sec 1
Start Time: 9:56 pm **End Time:**
Weather Conditions at Start: Clear, breezy, 68°
Weather Conditions at End:
Equipment Used (spotlights, binoculars):

Describe Route Driven, including habitat types traversed:

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

STJR = IIII
II

#1 2206 Kit Fox 60 m NW of 0233223 x3913229, sitting on crest of hill watching & inquisitive, turned around & walked away.

#2 2241 Kit Fox 20 m W of 0234851 x3910921, trotting to west.

startin Rabbit = IIII
II

2255 Burrowing owl south of Sec 5

#3 2311 Kit fox 150 m E of 0236307 x 3911954, moving to NW & watching us.

#4 2319 Kit fox 60 m N of 0236717 x3911816, trotting around, looking at us occassionally.

#5 2323 Kit fox also ≈ 60 m N of 0237132 x 3911800 looking at us & moving away.

#6 2337 SJKF 50 m E of 11S 0238133 3912222; foraging & lounging at den entra
#7 2338 SJKF 150 m NE 11S 0238133 3912222; startled double sighting
#8 0:10 SJKF 200 m N 11S 0237839 3910359 running
23:50 burrowing owl
23:58 barn owl
#9 0:19 SJKF 80 m SE 11S 0238231 3910547; walking
#10 0:22 SJKF 50 m N 11S 0238296 3910745; foraging
#11 0:32 SJKF 30 m W 11S 0238928 3911405, foraging
#12 0:32 SJKF 75 m NW 11S 0238928 3911405, ran away double sighting
#13 0:47 SJKF 250 m N 11S 0238368 3913262; standing
#14 0:55 SJKF 200 m N 11S 0237340 3913881; trotting

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 30 July 2009

Lead Surveyor: Jorge Ramos
Assistant Surveyor: Paul Sollins
Assistant Surveyor: Alyssa Berry

Location of Survey: Perimeter of site
Start Time: 10:07 **End Time:** 1:38
Weather Conditions at Start: 21.8°C ; 4.8-7.2 mph average 5.2 367° N
Weather Conditions at End:
Equipment Used (spotlights, binoculars):
Spot light & binoculars

Describe Route Driven, including habitat types traversed:
Route to each camera station, gravel road, and perimeter along N, E and S. of project site to seven mile Rd and Dirt Rd S. of Bellevue Rd.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

10:11 Burrowing owl – E. of Boulder Creek Rd
✓ 10:15 SJKF (adult) WP 350 0235001 3914131 UTM.
10:20 Barn Owl
10:25 Jackrabbit
✓ 11:11 SJKF (3 pups) WP 351 0234909 3918990 UTM
11:30 Gopher snake WP 352 0234241 3916077
11:45 Desert Cottontail
✓ 12:08 SJKF 300 ft S. Hwy 58 WP 353 0234367 3915758
✓ 12:20 SJKF (3) 800-1000 ft S of Hwy 58 WP 354 0236868 3914074
✓ 12:29 SJKF (1) 400 ft NE Hwy 58 WP 355 0238144 3913837
12:36 Barn owl (n=2)
12:38 Jackrabbit
12:40 Cottontail
1:00 Jackrabbit
1:02 SJKF (2) 300 ft NW of Bellevue WP 356 0238990 3910906
1:06 SJKF (2 pups) 300 ft W. WP 357 0238608 3910838
✓ 1:20 SJKF 300 ft W. WP 358 0236478 3911081
1:22 Jackrabbit
1:36 Coyote (pup) on Hwy 58 WP 360 0239962 3918508

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 6-30-2009

Lead Surveyor: Carie Winegert
Assistant Surveyor: Cletis England
Assistant Surveyor: Dave Compton

Location of Survey: Interior of East side
Start Time: ~~[illegible]~~ 2210 **End Time:** 0130
Weather Conditions at Start: Clear, breezy
Weather Conditions at End: Clear, breezy
Equipment Used (spotlights, binoculars):
1million candle power spotlight, 3million candle power spot light, binos

Describe Route Driven, including habitat types traversed:
Entered Section 8 through gate @ SR and drove SSE, looping around through side and winding up at bottom of Section 11. Then entered Section 8 @ gate on SR and drove SSW towards Gypsum road.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

① ✓	1012	SJKF	Compton 010	2316733	3914134	100M E of PT.	Foraging
② ✓	1024	3SJKF	Compton 011	2316550	3913718	150-300 M NE	1 one was foraging
		↳ 2 probable 1 confirmed - spread out and moving around in different directions					
③	1102	SJKF	Compton 012	237554	3913076	150 m NW	Moving towards car
④	1110	SJKF	Compton 013	237226	3913402	100m SE	Foraging
⑤	1116	2 SJKF	Compton 014	237092	3913338	200M W	Romping around chasing each other
		acting like pups. playing					
⑥	1143	SJKF	Compton 015	238388	3911897	75m SSW	Foraging
⑦	1153	SJKF	Compton 016	235133	3911719	80m S	Foraging
	1228	KRAT	Compton 017	238094	3910957	@ PT.	Hopping around
		↳ likely Heermanns.					
⑧	1237	2 SJKF	Compton 018	238749	3910926	60m SE	Moving around.
⑨	1251	Probable SJKF	Compton 019	2385944	3911650	350M N	unsure - too far away

(Have this file)

ack rabbit - [illegible]

RECEIVED
JUL 13 2009
URS CORPORATION
Santa Barbara

Moon = waning gibbous
92.4% full

Carrizo Valley Solar Ranch Project
Spotlight Survey

Date: ~~7-8-09~~ info 7-9-09 **Biologist (Lead):** Tom Olson
Assistant: John Davis, Wayne Vogler
Location of Survey: Main ranch gate off Hwy 58
Start Time: 10:05 p.m. **End Time:** 1:35 a.m.
Weather Conditions at Start: Mostly clear, wind @ ~6 mph. T= 20°C NNW
Weather Conditions at End: 40% cloud cover, T= 17.5°C, wind: max= 7.6 ENE avg.= 2.8
11:35pm - T= 19°C; wind; max= 8; avg= 5.6 WNW
Equipment Used (spotlights, binoculars):
3 million candlepower spotlights (2)
10x40 binoculars
Describe Route Driven, including habitat types traversed:
Drove perimeter of site and covered areas outside of site - especially on south and east sides.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

- 10:15 p.m. - 2 cottontails. Total cottontails for night - 9
- 10:21 p.m. - Badger ~ 100 ft. south of road.
  Digging. Entered burrow and backfilled it as we approached on foot.
  Waypt. 365 115 0232356 3914127
- 10:36 p.m. - Kit fox. Running in draw adjacent to road.
  Waypt 366 115 0232121 3913639
- 11:20 p.m. - Badger ~ 250 ft off Clear Creek Rd
  Can see flat head, wider-set eyes
  Waypt. 367 115 0232853 3911481
- 11:29 p.m. kit fox
  Waypt 368 115 0232914 3913235
- 11:45 p.m. - Badger - may be same as first badger observation. 200 ft SE of rd.
  Waypt 369 115 0233036 3913468
- 12:0[illegible] a.m. - Minimum of 3 jackrabbits
  Total jackrabbits for night - 12
- 12:04 p.m. - kit fox - 2, ind. 1 definite & 1 potential
  - Same stop as jackrabbits above.
  - Running uphill, away from vehicle
  Waypt. 370 115 0233136 3913767

↓

Carrizo Valley Solar Ranch Project
Spotlight Survey

Date: 7-8-09, into 7-9-09 - cont'd **Biologist (Lead):** _____
Assistant: _____
Location of Survey: _____
Start Time: _____ **End Time:** _____
Weather Conditions at Start: _____
Weather Conditions at End: _____
Equipment Used (spotlights, binoculars):

Describe Route Driven, including habitat types traversed:

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

- 12:08 a.m. Barn owl
  Wypt. 371 115 0233301 3913314
  Total barn owls for night - 5

- 12:30 a.m. kit fox ~200 ft. from road
  Wypt 372 115 0233239 3911286

- 12:55 a.m. kit fox - Ran across road
  Wypt 373 115 0234045 3910747

- 1:10 a.m. kit fox
  Wypt 374 115 0238189 3913524

Totals for night

kit fox - 6 definite, 1 potential
Badgers - 2 definitely, possibly a third
Barn owls - 5
Jackrabbits 12
Cottontails - 9

SunPower – Carrizo Valley Solar Ranch Project

Spotlight Survey

Date: 7-8-09

Lead Surveyor: Carie Winegart
Assistant Surveyor: Alyssa Berry
Assistant Surveyor: Ronald Cummings

Location of Survey: Southern Boundary
Start Time: 1004 **End Time:** 1308
Weather Conditions at Start: Mostly clear, mod breeze, 90% moon
Weather Conditions at End: Same
Equipment Used (spotlights, binoculars):

Describe Route Driven, including habitat types traversed:
Started @ SE Corner of section 9 and continued (S)-bound along the southern perimeter of the property, circled around the gypsum mine. Ran (N) along eastern boundary and spotlighted 58 back to main ranch road.

OBSERVATIONS – describe species, location (GPS reading), behavior, time of sighting

1022	#1	Possible KF	See map	Walking	11 S 234530	E 3911111	✓
1109	2	KF	See Map	Foraging	237113	3913074	✓
1118	3	KF	" "	Walking	237738	3912484	✓
1122	4	2KF	" "	Vigilance	238055	3912724	✓
1146	5	KF	" "	Laying down	236310	3910995	✓
1244	6	KF	" "	Moving	237903	3913463	✓
1252	7	Prob. KF	" "	Moving	237110	3913840	✓

(Have GPS ~~Eg~~ file)

bbit ~~Cottontail~~ – 𝍸 𝍸 𝍸 IIII
Barn Owl – II