

**Focused Surveys for the
Quino Checkerspot Butterfly
(*Euphydryas editha quino*)
Dyke Lot Split
TPM 20899
ER 04-14-049**

Prepared for:

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222 Highline Trail
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INTRODUCTION

This report presents the results of a series of focused field surveys for adult Quino checkerspot butterflies (*Euphydryas editha quino*) conducted on the 8.27-acre Dyke property. The proposed minor subdivision consists of two residential parcels of approximately 2.75 and 5.50 acres, which include 3.95 acres of open space. A portion of the site consists of a steep southeastern facing slope with multiple drainages. The site is regionally located in the east area of San Diego County east of the City of El Cajon, south of Interstate 8, in the community of Crest, California, as shown in Figure 1, page 3. The site is shown on the USGS map in Figure 2, page 4. The surveyed areas covered the entire site where potentially suitable habitat was determined to exist. The site is located within the "Adult Focused Survey Area" as designated by the U.S. Fish and Wildlife Service (USFWS, 2002).

METHODS

Survey methods were followed as outlined in the "Year 2002 Survey Protocol for the Quino Checkerspot Butterfly," (USFWS 2002). A Quino checkerspot butterfly (QCB) habitat assessment was performed during the first week of the survey. A site assessment map is shown in Figure 3, page 5. During the assessment, potential QCB habitat was determined to encompass the site's non-developed areas.

All areas containing potentially suitable QCB habitat were surveyed in accordance with year 2002 QCB survey protocol. All surveys were conducted by a permitted biologist, Andrea Beach (TE 022517). Surveys were conducted throughout a six-week time period, only under suitable weather conditions. Temperature, weather conditions, and wind speed were noted during each survey (Table 1, page 6). Non-excluded areas were walked slowly, with special attention given to areas where a higher potential for QCB use exists, such as near host plants or nectar sources, along ridgelines and hilltops, and along dirt roads. Periodic stops were made, and binoculars were used to aid in detection and identification of butterflies.

RESULTS

Quino was not detected on the Dyke property during the 2005 survey. The entire property, minus the existing residence and garage, was surveyed for QCB. Most of this area consisted of Southern Mixed Chaparral that is recovering from the Cedar Fire of 2003. A total of eight species of butterflies were detected, as detailed in Table 2, page 7.

No larval host plants were detected on the site.

CONCLUSIONS

The QCB was not detected on this site during the 2005 focused surveys. A total of eight species of butterflies were detected: *Anthocharis sara*, *Erynnis funeralis*, *Junonia coenia*, *Vanessa atalanta*, *Pontia protodice*, *Pieris rapae*, *Vanessa cardui* and *Colias eurytheme*. Other species observed coincidentally onsite are listed in Appendix A, page 8 and field notes are included in Appendix B, page 10.

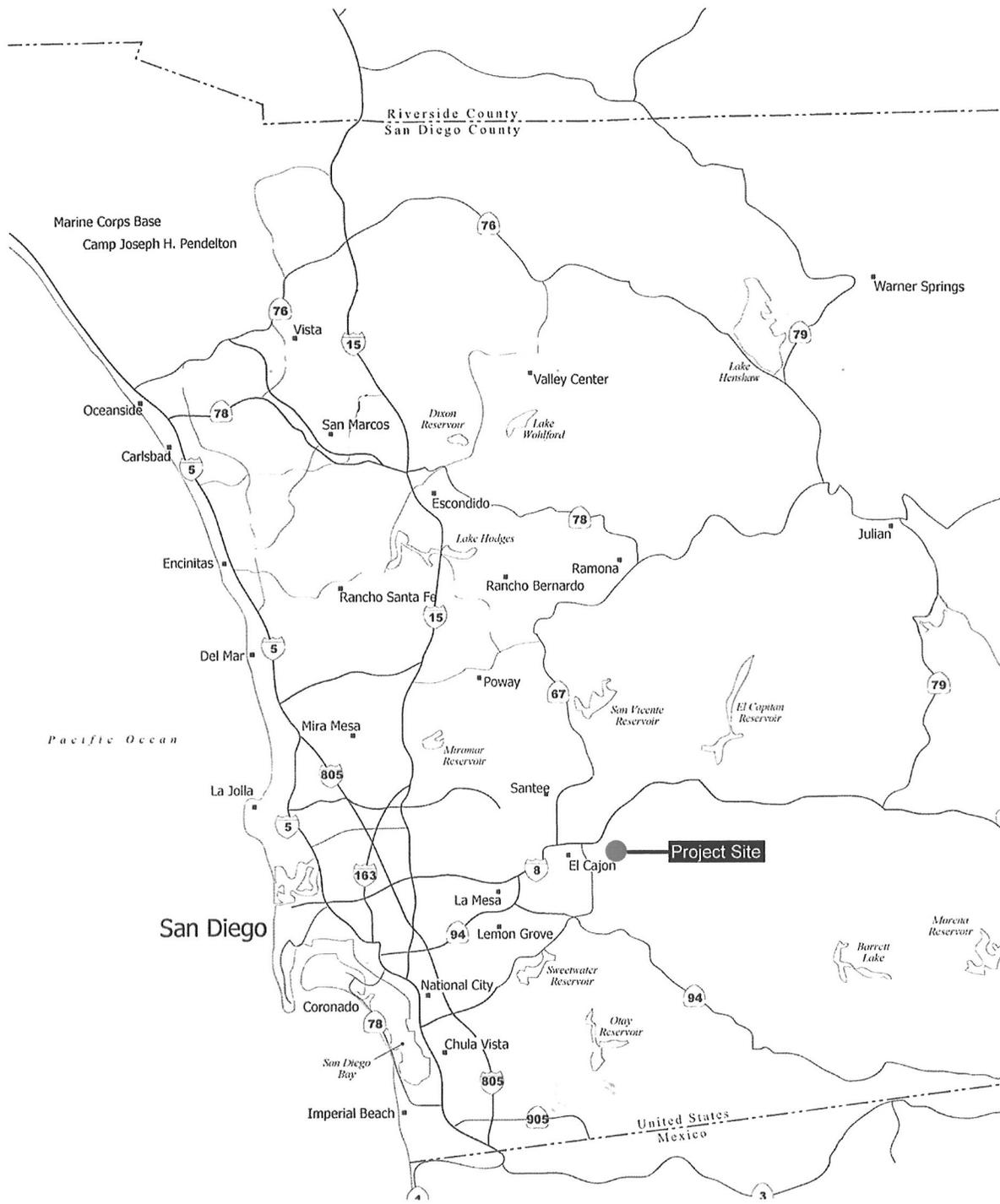


Figure 1 Regional Vicinity Map

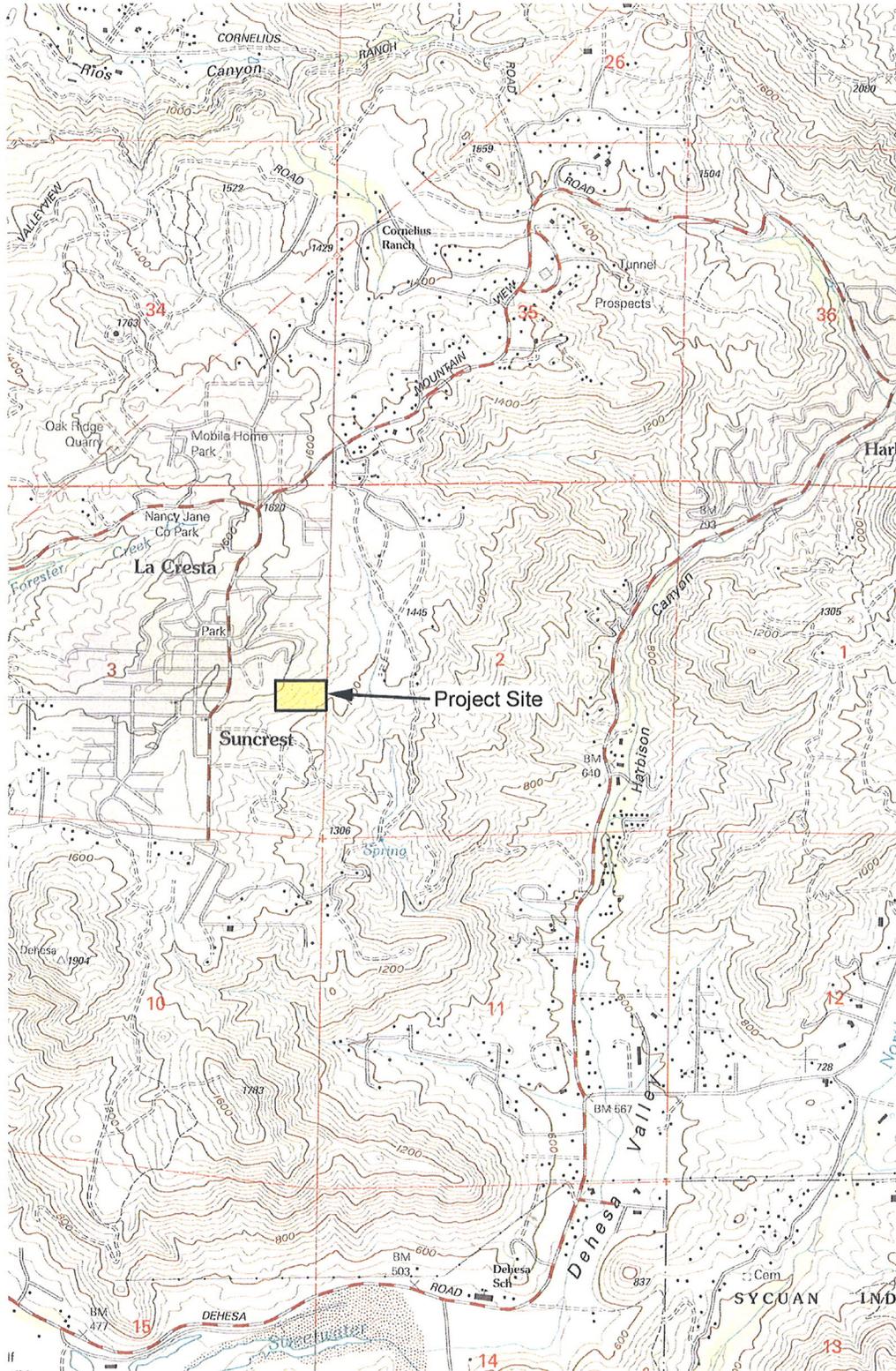


Figure 2 USGS 7.5' Alpine Quadrangle Map

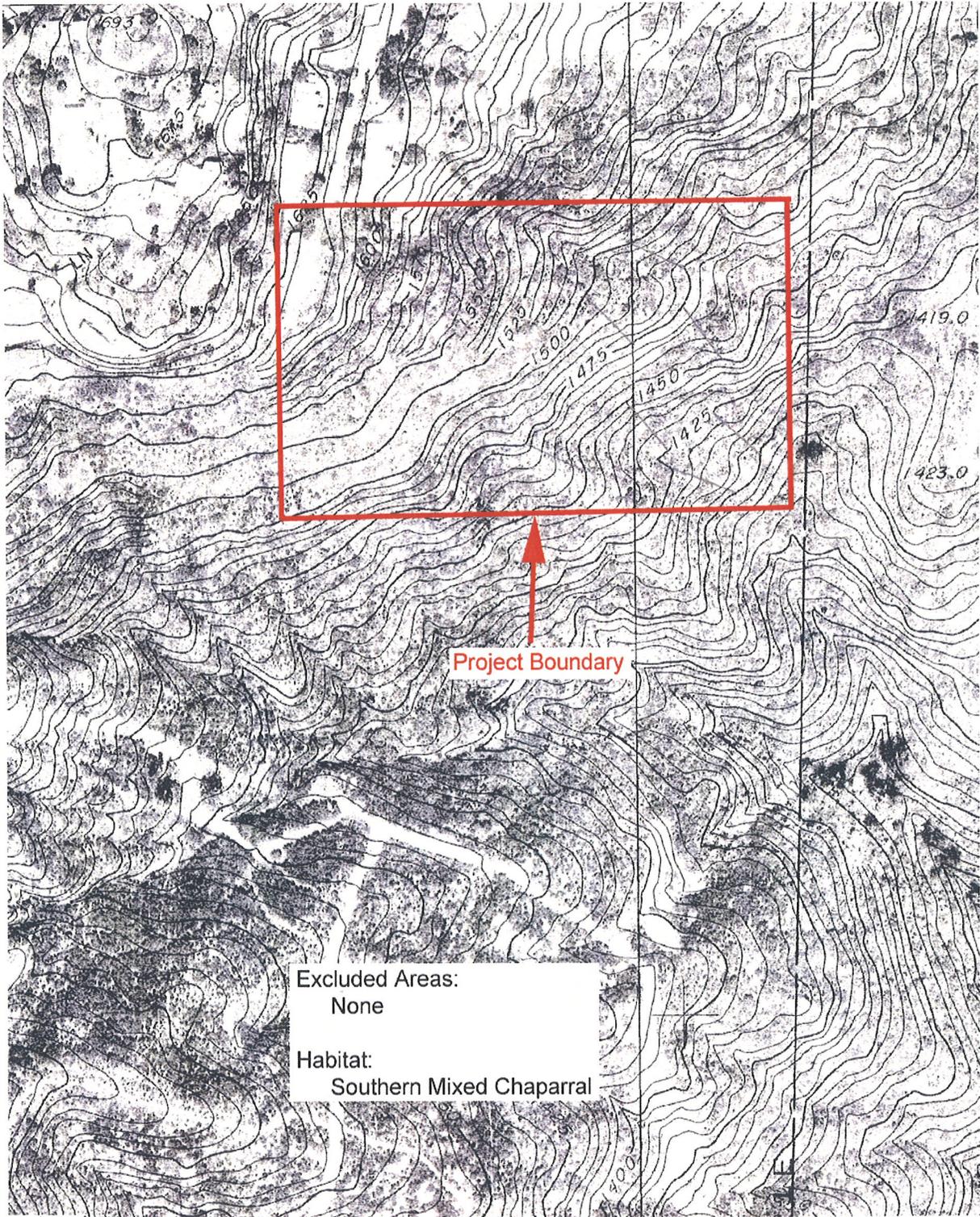


Figure 3 Site Assessment Map

Table 1
Survey Details

Date (2005)	Time/Temperature Start (degrees Fahrenheit)	Time/Temperature End (degrees Fahrenheit)	Weather Conditions
7 March	1355/72	1530/68	clear, wind 0-3 mph west
14 March	1300/65	1430/65	high clouds, wind 0-3 mph west
21 March	1330/70	1500/65	scattered clouds, wind 0-3 mph west
27 March	1200/75	1330/75	scattered clouds, calm
4 April	1300/62	1430/64	scattered clouds, wind 10 mph west
11 April	1300/77	1430/80	scattered clouds, wind 12 mph west

Table 2
Butterfly Species Observed

Scientific Name	Common Name
<i>Anthocharis sara</i>	Sara Orangetip
<i>Erynnis funeralis</i>	Funerial Dusky Wing
<i>Junonia coenia</i>	Buckeye
<i>Vanessa atalanta</i>	Red Admiral
<i>Pontia protodice</i>	Common White
<i>Pieris rapae</i>	Cabbage White
<i>Vanessa cardui</i>	Painted Lady
<i>Colias eurytheme</i>	Alfalfa Sulfur

REFERENCES

Emmel, T.C., and Emmel J.F. 1973. The Butterflies of Southern California. Science Series 26. Natural History Museum of Los Angeles County.

Garth, J.S., and Tilden, J.W. 1986. California Butterflies. University of California Press, Berkeley, California.

U.S. Fish and Wildlife Service 2002. *Quino Checkerspot Butterfly* (*Euphydryas editha quino*) *Year 2002 Survey Protocol*. Carlsbad Field Office, Carlsbad, CA.

APPENDIX A

Other Species Observed Onsite

Scientific Name

Common Name

Reptiles

Uta stansburiana

Side-blotched Lizard

Sceloporus orcutti

Granite Spiny Lizard

Birds

Cathartes aura

Turkey Vulture

Corvus brachyrhynchos

American Crow

Zenaida macroura

Mourning Dove

Carpodacus mexicanus

House Finch

Calypte anna

Anna's Hummingbird

Mammals

Sylvilagus bachmani

Brush Rabbit

APPENDIX B

Dyke Lot Split

March 7, 2005

1355

1530

72°

68°

clear

Same

0-3mph wind W

Painted Lady 1♀ + 1♀ + 1♀

III

Common White 1

Sara Orangetip 11

Red Admiral 1

Other

Side-blotched Lizard

Granite Spiny Lizard

Mourning Dove

House Finch

Anna's Hummingbird

Dyke Lot Split

March 14, 2005

1300

1430

65°

Same

high clouds

0-3 mph wind W

Painted Lady IIII IIII IIII IIII |

Sara Orangetip II

Cabbage White I

Other

Turkey Vulture

Crow

Brush Rabbit

Dyke Lot Split

March 21, 2005

1330

1500

70°

65°

Scattered clouds

Same

0-3 mph wind W

Painted Lady 10 + 10 + 10

Funereal Dusky Wing 1

Cabbage White HHT 11

Common White 111

Alfalfa Sulfur 111

Dyke Lot Split

March 27, 2005

1200

75°

Scattered clouds

calm

1330

75°

cloudy

6 mph wind W

~~1~~ Painted Lady IIII 1

Cabbage White 1

Dyke Lot Split

April 4, 2005

1300

62°

Scattered clouds

10mph wind W

1430

64°

Same

Painted Lady ~~||||~~

Sara Orangetip 1

Cabbage White 11

Common White 1

Dyke Lot Split

April 11, 2005

1300

77°

partly cloudy

8 mph wind W

1430

80°

Scattered clouds

12 mph wind W

Painted Lady HHT III

Cabbage White III