

BIRD

BLACKBIRDS, ORIOLES AND ALLIES

ICTERIDAE—BLACKBIRDS

Agelaius tricolor—Tricolored blackbird
Euphagus cyanocephalus—Brewer's blackbird
Icterus bullockii—Bullock's oriole
Sturnella neglecta—Western meadowlark

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS AND BUSHTITS

Psaltriparus minimus—Bushtit

EMBERIZINES

EMBERIZIDAE—EMBERIZIDS

Amphispiza belli—Sage sparrow
Amphispiza bilineata—Black-throated sparrow
Chondestes grammacus—Lark sparrow
Junco hyemalis—Dark-eyed junco
Melozone crissalis—California towhee
Pipilo maculatus—Spotted towhee
Spizella breweri—Brewer's sparrow
Zonotrichia leucophrys—White-crowned sparrow

FALCONS

FALCONIDAE—CARACARAS AND FALCONS

Falco mexicanus—Prairie falcon

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Carpodacus mexicanus—House finch Spinus lawrencei—Lawrence's goldfinch Spinus psaltria—Lesser goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Sayornis saya—Say's phoebe
Tyrannus verticalis—Western kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

Accipiter cooperii—Cooper's hawk Buteo jamaicensis—Red-tailed hawk Buteo swainsoni—Swainson's hawk Circus cyaneus—Northern harrier

HERONS AND BITTERNS

ARDEIDAE—HERONS, BITTERNS, AND ALLIES

Ardea herodias—Great blue heron

JAYS, MAGPIES AND CROWS

CORVIDAE—CROWS AND JAYS

Aphelocoma californica—Western scrub-jay Corvus corax—Common raven

KINGLETS

REGULIDAE—KINGLETS

Regulus calendula—Ruby-crowned kinglet

LARKS

ALAUDIDAE—LARKS

Eremophila alpestris—Horned lark

MOCKINGBIRDS AND THRASHERS

MIM/DAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—Northern mockingbird

NEW WORLD QUAIL

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

NEW WORLD VULTURES

CATHARTIDAE—CARDINALS AND ALLIES

Cathartes aura—Turkey vulture

OLD WORLD WARBLERS AND GNATCATCHERS

SYLVIIDAE—SYLVIID WARBLERS

Polioptila caerulea—Blue-gray gnatcatcher Polioptila melanura—Black-tailed gnatcatcher

OWLS

STRIGIDAE—TYPICAL OWLS

Bubo virginianus—Great horned owl

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

Streptopelia decaocto—Eurasian collared-dove Zenaida macroura—Mourning dove

ROADRUNNERS AND CUCKOOS

CUCULIDAE—CUCKOOS, ROADRUNNERS, AND ANIS

Geococcyx californianus—Greater roadrunner

SHOREBIRDS

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus—Killdeer

SHRIKES

LANIIDAE—SHRIKES

Lanius ludovicianus—Loggerhead shrike

STARLINGS AND ALLIES

STURNIDAE—STARLINGS

* Sturnus vulgaris—European starling

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Petrochelidon pyrrhonota—Cliff swallow Stelgidopteryx serripennis—Northern rough-winged swallow

THRUSHES

TURDIDAE—THRUSHES

Sialia mexicana—Western bluebird

TITMICE

PARIDAE—CHICKADEES AND TITMICE

Baeolophus inornatus—Oak titmouse

WOOD WARBLERS AND ALLIES

PARULIDAE—WOOD-WARBLERS

Oreothlypis celata—Orange-crowned warbler Oreothlypis ruficapilla—Nashville warbler Setophaga coronata—Yellow-rumped warbler Setophaga petechia—Yellow warbler

WOODPECKERS

PICIDAE—WOODPECKERS AND ALLIES

Colaptes auratus—Northern flicker

Melanerpes formicivorus—Acorn woodpecker

WRENS

TROGLODYTIDAE—WRENS

Catherpes mexicanus—Canyon wren Thryomanes bewickii—Bewick's wren Troglodytes aedon—House wren

WRENTITS

TIMALIIDAE—BABBLERS

Chamaea fasciata—Wrentit

INVERTEBRATE

BUTTERFLIES

HESPERIIDAE—SKIPPERS

Atalopedes campestris—Sachem

Erynnis brizo—Sleepy duskywing

Erynnis funeralis—Funereal duskywing

Erynnis propertius—Propertius duskywing

Erynnis sp.—duskywing

Erynnis tristis—Mournful duskywing

Heliopetes ericetorum—Northern white-skipper

Hesperia juba—Juba skipper

Ochlodes agricola—Rural skipper

Pholisora catullus—Common sootywing

Polites sabuleti—Sandhill skipper

Pyrgus communis—Checkered skipper

LYCAENIDAE—BLUES, HAIRSTREAKS, AND COPPERS

Atlides halesus—Great purple hairstreak

Brephidium exile—Western pygmy-blue

Callophrys augustinus—Brown elfin

Callophrys perplexus—Perplexing green hairstreak

Celastrina ladon—Spring azure

Euphilotes battoides—Western square-spotted blue

Everes amyntula—Western tailed-blue

Glaucopsyche piasus—Arrowhead blue

Philotes sonorensis—Sonoran blue

Plebejus acmon—Acmon blue

Plebejus lupini—Lupine blue

NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

Chlosyne gabbii—Gabb's checkerspot

Danaus plexippus—Monarch

Euphydryas chalcedona—Variable checkerspot

Junonia coenia—Common buckeye

Vanessa annabella—West coast lady

Vanessa atalanta—Red admiral

Vanessa cardui—Painted lady

Vanessa sp.—lady

PAPILIONIDAE—SWALLOWTAILS

Papilio eurymedon—Pale swallowtail

Papilio polyxenes coloro—Desert black swallowtail

Papilio rutulus—Western tiger swallowtail

Papilio sp.—swallowtail

PIERIDAE—WHITES AND SULFURS

Anthocharis cethura—Desert orangetip

Anthocharis sara—Pacific sara orangetip

Anthocharis sp.—orangetip

Colias eurytheme—Orange sulphur

Colias harfordii—Harford's sulphur

Colias philodice—Clouded sulphur

Colias sp.—dogface

Euchloe hyantis lotta—Desert pearly marble

Nathalis iole—Dainty sulphur

Pieris rapae—Cabbage white

Pontia beckerii—Becker's white

Pontia protodice—Checkered white

Pontia sisymbrii—Spring white

Pontia sp.—white

RIODINIDAE—METALMARKS

* Apodemia mormo—Mormon metalmark

MOTHS

SPHINGIDAE—HAWK MOTHS

Euproserpinus phaeton—Primrose sphinx moth

NOCTUIDAE—OWLET MOTHS

Autographa californica—Alfalfa looper

Heliothis belladona—no common name

Schinia amarylis—no common name

Schinia aurantiaca—no common name

Stylopoda cephalica—no common name

CRAMBIDAE—GRASS MOTHS

Chrismania pictipennalis—no common name

Loxostege immerens—no common name

EREBIDAE—WITCH MOTHS

Litocola sexsignata—Litocala moth

Drasteria biformata—no common name

Drasteria convergens—no common name

Drasteria divergens—no common name

Drasteria edwardsii—no common name

Drasteria fumosa—no common name

Drasteria ochracae—no common name

Drasteria tejonica—no common name

Leptarctia californica—no common name

MAMMAL

CANIDS

CANIDAE—WOLVES AND FOXES

Canis latrans—Coyote

CATS

FELIDAE—CATS

Lynx rufus—Bobcat
Puma concolor—Cougar

HARES AND RABBITS

LEPORIDAE—HARES AND RABBITS

Lepus californicus bennettii—San Diego black-tailed jackrabbit Sylvilagus audubonii—Desert cottontail

RATS AND MICE

MURIDAE—RATS AND MICE

Neotoma sp.—woodrat

UNGULATES

CERVIDAE—DEERS

Odocoileus hemionus-Mule deer

REPTILE

LIZARDS

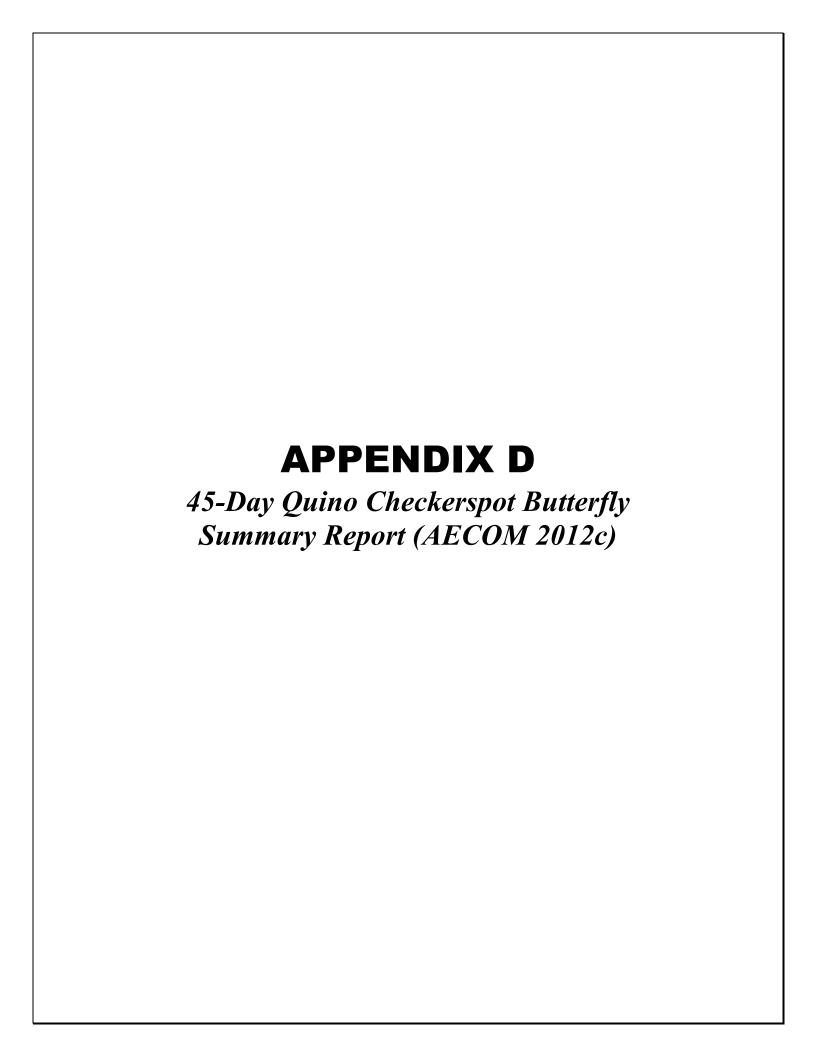
PHRYNOSOMATIDAE—IGUANID LIZARDS

Phrynosoma blainvillii—Blainville's horned lizard Sceloporus orcutti—Granite spiny lizard

TEIIDAE—WHIPTAIL LIZARDS

Aspidoscelis hyperythra beldingi—Belding's orange-throated whiptail Aspidoscelis tigris stejnegeri—Coastal whiptail

* Signifies introduced (non-native) species





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February 7, 2012

Ms. Susie Tharatt Recovery Permit Coordinator Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road, Suite 101 Carlsbad, California 92011

RE: 2011 Rugged Solar Energy Project Quino Checkerspot Butterfly 45-Day Summary Report, Boulevard, California

Dear Ms. Tharatt:

In compliance with the Special Terms and Conditions for Endangered and Threatened Wildlife Species Permit TE-820658-4.6, on behalf of Rugged Solar Farm, LLC, AECOM submits this letter report summarizing the results of focused surveys conducted in 2011 for the federally listed endangered Quino checkerspot butterfly (*Euphydryas editha quino*; Quino) for the Rugged Solar project (Proposed Project or Project) in Boulevard, California. AECOM currently holds an Endangered and Threatened Species Permit issued by the U.S. Fish and Wildlife Service (USFWS) under Section 10(a)(1)(A) of the Federal Endangered Species Act. This permit authorizes AECOM to conduct presence/absence surveys for the Quino and other species.

Project Description

The Proposed Project is a concentrating photovoltaic (CPV) power plant with alternating current (AC) generating capacity of as much as approximately 100 megawatts (MW) AC. The Project will consist of up to approximately 4,375CPV trackers, although the first phase of the Project would be comprised of up to approximately 3,560 trackers grouped into approximately up to 64building blocks with up to 60 trackers and one pair of 630- to 680kilowatt (kW) inverters each. Each inverter pair is equipped with a small step-up transformer. The AC inverter capacity determines the nameplate capacity of each building block to be 1.26 to 1.36 MW AC. The Project will be constructed on relatively flat to gently sloping land that is currently zoned as agricultural and used for grazing. The Project area is approximately 1.25 miles north of Interstate 8 (I-8), extending roughly 2 miles between Ribbonwood Road and McCain Valley Road. A smaller portion lies east of McCain Valley Road. The Project area lies within the unincorporated area of San Diego County near Boulevard, California (Figures 1, 2). It will interconnect to San Diego Gas & Electric's (SDG&E) local distribution system at the Boulevard Substation via a dedicated or shared 69-kilovolt (kV) tie-line. The Project area totals approximately 888 acres. Portions of the Project area were excluded from the Quino survey area, resulting in approximately 789 acres for the Quino Survey. The details related to acreage exclusion are defined in the survey methodology.

Site Description

The Project area is located in a desert transition zone dominated by chaparral communities, subshrub communities, alkali meadows and seeps, oak woodlands, and wildflower fields.



Elevation within the Project area ranges from approximately 3,500 to 3,670 feet above mean sea level. The Project area has gently sloping hillsides and shallow valleys, with rock outcrops and a few small hills scattered throughout. The 789-acre portion of the Project area surveyed for Quino (the Quino Survey Area) (Figure 3), is located on an active cattle ranch. The vegetation communities found within the Quino Survey Area are listed below. Vegetation was mapped during field surveys using large-plot aerial photographs at a scale of 1 inch = 200 feet. The Holland (1986) classification system for natural communities as modified by Oberbauer et al. (2008) was used for vegetation mapping. The vegetation communities are described below in order of abundance, starting with the most common community. Following the community name is the Holland (1986) classification number in parentheses (i.e., as updated by Oberbauer et al. 2008).

Semi-Desert Chaparral (37400)

Semi-desert chaparral is an open-canopy chaparral community dominated by widely spaced evergreen shrub species within a matrix of subshrubs and succulent desert transition species. This community is more open and is not quite as tall as other chaparral types, and is probably dormant in winter (due to cold temperatures) and in late summer and fall (due to drought) (Holland 1986). Dominant species are scrub oak (*Quercus xacutidens*), chamise (*Adenostoma fasciculatum*), holly-leaf cherry (*Prunus illicifolia*), interior flat-topped buckwheat (*Eriogonum fasciculatum* ssp. *polifolium*), foothill buckwheat (*Eriogonum wrightii var. membranaceum*), and mountain mahogany (*Cercocarpus betuloides*). Common desert transition species include cholla cactus (*Cylindropuntia californica* var. *parkeri*), Mojave yucca (*Yucca schidigera*), ephedra (*Ephedra californica*), and desert apricot (*Prunus fremontii*).

Alkali Seep (45320)

Alkali seep as defined in Holland (1986) and Oberbauer et al. (2008) is a wetland vegetation type that supports halophytic plant species such as salt grass (*Distichlis spicata*), salt heliotrope (*Heliotropium curassavicum*), Mexican rush (*Juncus mexicanus*), and alkali sacaton (*Sporobolus airoides*). Within the Quino survey area, this community is consistently dominated by salt grass and salt heliotrope, with presence of the other halophytic species. This community extends throughout the floodplain of Tule Creek, which is generally flat and is subject to extensive cattle and horse grazing.

Big Sagebrush Scrub (35210)

This community is composed of soft-woody shrubs approximately 6 feet tall and is dominated by big sagebrush (*Artemisia tridentata*) with several other associated subshrub and herbaceous species. Big sagebrush scrub can occur on a wide variety of soils and terrain, from rocky well-drained slopes to fine-textured valley soils with a high water table (Holland 1986).



<u>Upper Sonoran Subshrub Scrub</u> (39000)

Upper Sonoran subshrub scrub is a low, open scrub community that is dominated by soft-wooded, summer-dormant, drought-tolerant shrubs. Dominant species include interior flat-topped buckwheat, foothill buckwheat, and interior goldenbush (*Ericameria linearifolia, Ericameria brachylepis*). Inter-shrub spaces are occupied by many annual species, including sun cup (*Camissonia californica*) and California matchweed (*Gutierrezia californica*) (Holland 1986).

Red Shank Chaparral (37300)

Red shank chaparral is similar to chamise chaparral but is generally taller (6.5 to 13 feet) and usually more open. Red shank (*Adenostoma sparsifolium*) is the dominant species and occupies greater than 50% of the vegetative cover. Chamise, scrub oak, and big sagebrush (*Artemisia tridentata*) often occur as co-dominant species. This community is generally restricted to granitic soils, often at higher elevations that have greater precipitation and colder winters. Red shank chaparral occurs in Southern California and is commonly found on interior cismontane slopes (Holland 1986). Other associated species often include Mohave yucca, interior flat-topped buckwheat and foothill buckwheat.

Scrub Oak Chaparral (37900)

Scrub oak chaparral is a dense, tall community that is dominated by scrub oak and, in some areas, Palmer's oak (*Quercus palmeri*), in association with various other chaparral shrub species such as chamise, sugar bush (*Rhus ovata*), silk tassel bush (*Garrya veatchii*), cup-leaf ceanothus (*Ceanothus greggii* var. *perplexens*), and big-berry Manzanita (*Arctostaphylos glauca*). This community occurs on sites that are more mesic than other chaparrals, on soils that are too shallow or xeric for oak woodland communities (Holland 1986).

Chamise Chaparral (37200)

Chamise chaparral is dominated by chamise and generally contains less species diversity than other chaparral communities (Holland 1986). However, several other shrub, subshrub, and herbaceous species are present as co-dominant species on occasion, including scrub oak, interior flat-topped buckwheat, foothill buckwheat, cup-leaf ceanothus, and Mohave yucca.

Nonnative Grassland (42200)

Nonnative grassland generally occurs on fine-textured loam or clay soils that are moist or even waterlogged during the winter rainy season and very dry during the summer and fall. It is characterized by a dense to sparse cover of annual grasses, often with native and nonnative annual forbs (Holland 1986). Typical grasses within the region are cheat grass



(Bromus tectorum), ripgut brome (Bromus diandrus), red brome (Bromus madritensis ssp. rubens), soft chess (Bromus hordeaceus), wild oats (Avena sp.), and rat-tail fescue (Vulpia myuros). Nonnative disturbance-related annuals such as filaree (Erodium spp.), and short-pod mustard (Hirschfeldia incana) are common to this community. Although named as a nonnative community, this community often has significant biological value, since it typically supports native grassland species such as tarweed (Deinandra spp.) and California goldfield (Lasthenia gracilis), provides foraging habitat for raptors, and often supports other sensitive wildlife species.

Freshwater Seep (45400)

Freshwater seep is a persistent wetland dominated by low-growing, perennial plant species. It occurs in permanently moist or wet soil often associated with grasslands and meadows. This vegetation community is dominated by various wetland plant species, including cluster field sedge (*Carex praegracilis*), rushes (*Juncus* spp.), and yerba mansa (*Anemopsis californica*) (Oberbauer et al. 2008).

Coast Live Oak Woodland (71160)

Coast live oak woodland varies from an open to dense tree community with interior coast live oak (*Quercus agrifolia* var. *oxyadenia*) as the dominant overstory species in the habitat on-site. The shrub understory of these communities may include foothill buckwheat in the more open phase oak woodland, and black elderberry (*Sambucus nigra* spp. *caerulea*) and hybrid scrub oak (*Quercus x acutidens*) in the dense phase (Holland 1986).

Southern Willow Scrub (63320)

Southern willow scrub is a dense, broad-leaved, winter deciduous riparian thicket dominated by several species of willow (*Salix* spp.) in association with mulefat (*Baccharis salicifolia*). Associated species found within this community include mariposa rush (*Juncus dubious*), seep monkeyflower (*Mimulus guttatus*), and hoary nettle (*Urtica dioica-holosericea*), among others. This is an early seral community that requires periodic flooding to prevent succession to riparian forest (Holland 1986).

Wildflower Field (42300)

This community is distributed from montane areas to foothills and valleys of the Californian Floristic Province below about 4,000 to 5,000 feet elevation in San Diego County. The distinguishing feature of wildflower fields is a dominance of native herbaceous species, often with conspicuous displays of annual wildflowers. Dominance varies from site to site and from year to year (Holland 1986). This community type does not apply to desert regions (too dry) or the north coast of California (too wet). Wildflower field is a sensitive habitat because of its unique character and rare occurrence.



Disturbed (11300)

Disturbed areas are those affected by human activities. Vegetation does not usually become reestablished due to frequent disturbances (Holland 1986). Disturbed habitat includes permanent dirt roads and cleared/graded areas surrounding development.

Unvegetated Channel (64200)

This community consists of unvegetated washes that are dominated by sandy substrate and little to no vegetation (Holland 1986). These channels flood with sufficient frequency to exclude vegetation. However, low cover of flood-adapted herbaceous species can be present. Within the Project area, Tecate tarplant (*Deinandra floribunda*), a California Native Plant Society (CNPS) List 1B rare plant species restricted to southern San Diego County and Baja California, was present in some areas of the unvegetated washes.

Background Information

Quino was added to the federal endangered species list by USFWS on January 16, 1997 (USFWS 1997). The species (*E. editha*) has a range extending from British Columbia and Alberta, Canada, south through Colorado and Utah, and west along the coast to northern Baja California. It is divided into at least 29 subspecies, each of which has its own range and biological and morphological characteristics. In California, there are at least 18 described subspecies (Emmel 1998). Three other subspecies of *E. editha* are currently known to occur in Southern California. Quino is the southwesternmost subspecies of *E. editha* (Mattoni et al. 1997).

Quino is known to occur in association with a variety of plant communities, soil types, and elevations (up to 5,000 feet). The plant communities include clay soil meadows, open grasslands, coastal sage scrub, chamise chaparral, red shank chaparral, juniper woodlands, and semi-desert scrub (Ballmer et al. 2001). Quino is also associated with clay soils that possess cryptogamic crusts and vernal pools (USFWS 2002).

Quino is a medium-sized butterfly (approximately 0.8- to 1.1-inch wingspan) belonging to the family Nymphalidae. The adults are primarily orange-red with white and have black markings on the dorsal wing surface. They are active primarily in March and April. This active period may vary depending on weather conditions (Ballmer et al. 2001). The adult butterfly feeds on nectar, which it obtains from spring annuals such as popcorn flower (*Cryptantha* spp.), Layia (*Layia glandulosa*), goldenbush (*Ericameria* spp.), pincushion (*Chaenactis* spp.), fiddleneck (*Amsinckia intermedia*), chia (*Salvia columbariae*), and blue dicks (*Dichelostemma capitatum*), among others. It cannot use flowers that possess deep corolla tubes, such as monkeyflower (*Mimulus* spp.), or those that can be opened by bees, such as snapdragons (*Antirrhinum* spp.) (USFWS 2002). Adult males and virgin females sometimes "hilltop," or travel to elevated locations to find mates. While waiting for females to arrive, the males will often exhibit "territorial behavior" and will chase other butterflies that approach



them. Frequently, the butterflies are observed in meadows or clearings where their host plants occur (Ballmer et al. 2001).

An adult female may lay 20 to 75 eggs per cluster and may produce up to 1,200 eggs in her lifetime of a couple weeks. The eggs hatch in approximately 10 days under favorable weather conditions, and the young larvae will immediately begin to feed upon a host plant. The feeding larvae use the dot-seed plantain (*Plantago erecta*), Patagonia plantain (*Plantago patagonica*), white snapdragon (*Antirrhinum coulterianum*), and southern Chinese houses (*Collinsia concolor*) as their host plants (Pratt 2010). Dark-tip bird's beak (*Cordylanthus rigidus*) and purple owl's clover (*Castilleja exserta*) are considered secondary hosts (USFWS 2002). New evidence suggests that southern Chinese houses is a primary larval food plant for Quino in the 2,953- to 4,265-foot elevation range (Pratt 2010), which is within the range coincident with the Quino survey area.

After feeding and initial growth, the early instar larvae enter an obligatory aestival diapause (dormant stage), which may be broken after fall or winter rains (Murphy and White 1984; Osborne 1998). If adverse weather conditions occur, the emergent larva may reenter a diapause stage repeatedly, for up to 5 or 6 years, until favorable weather conditions permit sufficient growth of the host plant to allow the larva to complete its development. Quino is known to undergo population fluctuations, with extirpation of local populations and recolonization of new areas characteristic of metapopulation dynamics (Osborne 1998).

Quino was once common in Southern California. It ranged north into Ventura County, west to the Pacific Ocean, east to the desert edge, and south into northern Baja California. Currently, it is known to occur only in a few, probably isolated, colonies in southwestern Riverside County, San Diego County, and northern Baja California.

Reasons for the butterfly's reduction in population are not well understood. Habitat loss due to degradation and fragmentation caused by urban and rural development, agricultural conversion, off-road-vehicular use, the invasion of nonnative plants and insects, fire management practices, overcollecting, and adverse weather conditions have likely contributed to the species' decline (USFWS 1997).

USFWS recommends that focused Quino surveys be conducted a minimum of five times during the adult flight season by biologists possessing a recovery permit for this species pursuant to Section 10(a)(1)(A) of the Endangered Species Act. The Quino flight season within a given area is determined by the activity of known Quino populations, which is monitored annually by USFWS. The Quino survey area is located in eastern San Diego County, and the Jacumba reference site, approximately 4.5 miles to the southeast, is the closest known population of Quino; therefore, surveys coincided with Quino activity at the Jacumba reference site. During the 2011 flight season, the first adult Quino were observed flying at the Jacumba reference site on March 15 (USFWS 2011).



Survey Methodology

In the Project area which totals 888 acres, approximately 99 acres were excluded from Quino surveys because of lack of suitable habitat, overlap with other project sites, and small modifications made to the Project area after the completion of protocol surveys (Figure 3).

One small feature of unsuitable habitat occurs on the northwestern portion of the site: a pond, which covers 0.17 acre. Two other areas of the Project area were excluded due to overlap with another project. This consisted of a construction yard and a construction corridor totaling 75.41 acres.

After Quino surveys were completed in spring 2011, the Project area boundaries shifted very slightly in some areas. One access route was shifted to a new area off of McCain Valley Road and another access route was expanded. These modifications to the Project footprint study area amount to 24.18 acres and contain similar habitat to the adjacent areas surveyed for Quino. These changes are reflected in Figure 3.

Habitat Assessment

In accordance with the *Survey Protocol for the Endangered Quino Checkerspot Butterfly* (*Euphydryas editha quino*) (USFWS 2002), a habitat assessment of the Project area was conducted on March 25, 2011, prior to the first protocol-level survey by permitted biologists (Table 1). Protocol-level surveys for Quino were determined necessary due to the presence of suitable Quino habitat, known occurrences in the region, and the USFWS recommendation for Quino surveys of the area (USFWS 2005). The Project area occurs within Area 1 of the most up-to-date USFWS Quino Recommended Survey Area Map, where capture of Quino is not allowed (USFWS 2005). Potential habitat surveyed for Quino consists of all habitat types onsite except for open water (cattle ponds), developed areas, and other portions of the Project area excluded from the survey. Results of habitat assessments defined all potentially suitable habitats as the Quino survey area (Figure 3). Closed-canopy chaparral, riparian forest, and oak woodland habitats were included in the Quino survey area because these areas were small and adjacent to open patches of habitat with the potential to support Quino.

Table 1
Permitted Biologists Who Conducted Quino Habitat Assessments

AECOM Permitted Biologists
Erin Bergman
Andrew Fisher
Mike Couffer
Subcontracted Permitted Biologists
Antonette Gutierrez
Steve Rink
Adam Behle



Focused Adult Quino Surveys

The start date for focused adult Quino surveys was determined based on conditions at the Jacumba reference site monitored by USFWS (USFWS 2011). The Jacumba reference site population of Quino uses dotseed plantain (Plantago erecta) as a host plant (USFWS 2011). This plant species, widespread on clay soils in western San Diego County, is restricted to basalt-derived clay soils in the vicinity of Jacumba Mountain (Osborne 2011), and is not present in the Project area. The Jacumba reference site is closer to the desert and at a slightly lower elevation than the Quino survey area. Due to higher elevations, the presence of granitic soils, the lack of clay soils, and the absence of dotseed plantain in the Quino Survey Area, any Quino population existing on-site would be expected to exhibit ecology similar to other "high" elevation Quino populations in the vicinity, which are typically associated with southern Chinese houses, white snapdragon, and dark-tip bird's beak host plants. Quino populations of higher elevations tend to fly slightly later in the season than those populations at slightly lower elevations. Based on AECOM biologists' experience with Quino in the region, it is expected that any potential Quino population in the vicinity of the Quino Survey Area will have its flight season beginning 1 or 2 weeks later than the population at the Jacumba reference site.

The first adult Quino observed at the Jacumba reference site was detected on March 15, 2011. However, due to out-of-protocol weather for most of March (mean daytime temperatures were predicted to be below protocol survey guideline temperatures), surveys were not initiated until March 30, 2011. Focused presence/absence Quino surveys within the Quino Survey Area occurred from March 30, 2011, to May 4, 2011. Surveys were conducted by permitted AECOM biologists Erin Bergman, Bonnie Hendricks, Andrew Fisher, and Barbra Calantas. Additional AECOM biologists with independent permits also conducted Quino surveys; Table 2 provides a list of all biologists who conducted surveys and their permit numbers.

Table 2
Survey Personnel and TE Permit Numbers

Biologist	Permit Number
Adam Behle	797999-7.2
Andrew Fisher	820658-4
Antonette Gutierrez	797999-7.2
Barbra Calantas	820658-4
Bonnie Hendricks	820658-4
Erin Bergman	820658-4
Ken Osborne	837760-6
Kyle Ince	797999-7.2
Margaret Mulligan	233291-0
Michael Couffer	782703-8
Steve Rink	797999-7.2



Surveys were conducted during optimal periods for detecting Quino when wind, temperature, and other weather conditions were most favorable. If weather conditions did not meet the USFWS protocol for Quino, biologists waited for the weather conditions to improve before proceeding with surveys. Surveys were terminated if sustained winds were more than 15 miles per hour. The survey routes of each permitted biologist were recorded and mapped electronically using Garmin Global Positioning System (GPS) units. Biologists walked meandering transects through all potentially suitable habitat, scanning the ground, surrounding shrubs, and all nectar sources for Quino. Biologists documented any potential Quino host plant populations, all species of flowering plants (potential nectar sources), and all species of butterflies observed. Potential Quino host plants were mapped and recorded during all habitat assessments and focused adult surveys in increments of 1–10, 11–50, 51–100, 101–500, and 500+ individual plants (Figure 3).

The Quino Survey Area was surveyed initially for 5 weeks, which is the recommended minimum duration for focused Quino presence/absence surveys in the current USFWS survey protocol (USFWS 2002). Surveys were extended an additional survey week within selected portions of the Quino Survey Area because potential Quino host plants (dark-tip bird's beak and southern Chinese houses) were present in these areas or nectar resources remained abundant. Although protocol was satisfied with the 5 weeks of survey effort, in the interest of survey rigor, a sixth week of survey was continued within portions of the Quino survey area considered to have the greatest potential to support Quino. Portions of the Quino Survey Area were excluded from this additional survey effort based on the following factors: increased evidence of heavy cattle grazing, a lack of host plant populations, and sparse nectaring resources. Therefore, approximately 559.63 acres within the Project area were surveyed during survey week 6 (Figure 3).

According to USFWS guidelines, habitat with active/in-use grazing and a lack of native vegetation can be excluded from protocol-level surveys. Evidence of cattle grazing was present during weeks 1 through 5, but these areas were still surveyed for 5 weeks given the presence of native vegetation in spite of active grazing. Table 3 provides the survey week, date, survey team, total number of survey days, and the number of permitted biologist days that surveys were conducted.

Results

No Quino were detected during the habitat assessment or the focused adult Quino surveys. The five most abundant butterflies found in the Project area in order of abundance were the Behr's metalmark (*Apodemia mormo*), Sara orangetip (*Anthocharis sara*), desert pearly marble (*Euchloe hyantis*), common buckeye (*Junonia coenia*), and Acmon blue (*Icaria acmon*). A total of 64 butterfly and various moth species were detected within the survey area, with numbers varying across survey weeks. The total abundance of butterfly species ranged across the six surveys, but was highest during survey weeks 3 through 6.



Table 3
Protocol Quino Survey Schedule

Survey Week	Date	Survey Team	# Calendar Days	# Person Days ¹
1	03/29/11 – 04/01/11	Erin Bergman, Barbra Calantas, Mike Couffer, Andrew Fisher, Bonnie Hendricks, Margie Mulligan	4	12
2	04/04/11 – 04/05/11	Barbra Calantas, Mike Couffer, Andrew Fisher, Bonnie Hendricks, Kyle Ince, Margie Mulligan, Stephen Rink, Adam Behle	2	11
3	04/14/11 – 04/15/11	Erin Bergman, Antonette Gutierrez, Bonnie Hendricks, Kyle Ince, Margie Mulligan, Stephen Rink	2	12
4	04/18/11 – 04/20/11	Erin Bergman, Mike Couffer, Antonette Gutierrez, Bonnie Hendricks, Kyle Ince, Margie Mulligan, Ken Osborne, Stephen Rink	4	10
5	04/25/11 – 05/01/11	Mike Couffer, Antonette Gutierrez, Margie Mulligan, Ken Osborne	4	10
6	05/02/11 – 05/05/11	Erin Bergman, Bonnie Hendricks, Margie Mulligan, Ken Osborne	4	11

The number of person days varied depending on weather conditions, as outlined in the USFWS protocol, and included only permitted biologists.

Generally, potential nectar sources increased in diversity and abundance during survey weeks 3 through 6. A summary of weekly butterfly and moth species observations is included in Appendix A. Survey-specific weather conditions and personnel are presented in Appendix B. Field data collected during protocol surveys is included in Appendix C. A list of potential nectaring sources and host plants detected during each survey week is presented in Appendix D. A list of vertebrate wildlife species detected during Quino surveys is presented in Appendix E.

The Quino Survey Area within the Project area was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm LLC, LanEast Solar Farm LLC, and Rugged Solar LLC) after the completion of habitat assessments and Quino surveys. LanWest Solar Farm is located near the Proposed Project (on the western boundary of LanEast) and includes habitat approximately 0.5 mile west of McCain Valley Road immediately south of I-8 and north of Old Highway 80. LanEast Solar Farm is located on both sides of McCain Valley Road immediately south of I-8, but not extending all the way south to Old Highway 80. Rugged Solar Farm includes land beginning about one mile north of I-8 and on both sides of McCain Valley Road. All three project sites were surveyed at the same time for Quino (when the sites were considered one large project). Therefore, to provide additional data, some of the appendices include combined data from the now three differentiated projects. Appendix D is the same for all three project sites.



During spring 2011, rare plant surveys were ongoing and concurrent with focused Quino surveys for the Project. Botanists Bonnie Hendricks, Erin Bergman, Fred Sproul, Kyle Harper, Lance Woolley, Margaret Mulligan, John Messina, and Kyle Ince conducted rare plant surveys across 100% of the Quino Survey Area. Botanists mapped all potential Quino larval host plants observed while completing rare plant surveys. All potential host plants that were detected within the Quino Survey Area, including observations made by Quino surveyors during protocol surveys and by botanists during rare plant surveys within the same time frame as the Quino protocol surveys, are provided in Figure 3.

Two potential Quino host plant species were detected within the Quino Survey Area: dark-tip bird's beak and southern Chinese houses (Figure 3). Southern Chinese houses was most abundant in the chaparral communities on gently sloping terrain in the central portion of the Project area. A population of approximately 5,000 individuals was observed in flower during the fifth week of surveys. Chinese houses were starting to set seed in the sixth week of surveys.

Dark-tip bird's beak was observed in small numbers scattered across the Project area. This species was present as a small basal rosette and/or diminutive immature plant in April. Dark-tip bird's beak did not fully mature and bloom on-site until July. The basal rosettes were first observed during the second week of surveys.

Discussion

No Quino were found within the Quino Survey Area, despite the presence of several small discontiguous populations of potential Quino host plants, including southern Chinese houses and dark-tip bird's beak (Figure 3). One relatively larger population of Chinese houses including several thousand individuals was located in the central area of the project site in redshank chaparral. No dot-seed plantain was found within the Quino survey area.

Due to above-average rainfall during the 2010/2011 wet season, host plant population growth, as exhibited at several other locations in the general vicinity of the Project area, was not limited by rainfall (NOAA 2011). Given the ample winter precipitation, abundant wildflowers, springtime butterflies and moths, well coordinated timing of the survey relative to activity of local Quino populations, and extensive experience of the survey biologists, AECOM is confident that the negative survey results for Quino are valid on all portions of the Quino Survey Area.



If you have any questions or comments regarding this letter report, please contact me at (619) 233-1454.

Sincerely,

Andrew Fisher Wildlife Biologist

Attachments: Figure 1 – Regional Map

Figure 2 – Vicinity Map

Figure 3 — Quino Habitat Assessment and Larval Host Plants Map

Appendix A - Summary of Weekly Butterfly and Moth Species

Observations During Quino Surveys

Appendix B - Daily Weather Conditions During Quino Surveys

Appendix C – Field Data Collected During Quino Surveys

Appendix D – Potential Nectaring Sources and Host Plants Detected

During Quino Surveys

Appendix E – Vertebrate Wildlife Species Detected During Quino Surveys

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Ms. Susie Tharatt Recovery Permit Coordinator Carlsbad Fish and Wildlife Office February 7, 2012 Page 13

Certification

Qualified biologists who conducted Quino surveys for the proposed Rugged Solar LLC project certify that the information in this survey report fully and accurately represents the work performed. Signatures of permitted biologists, as listed in Table 1, who conducted protocol surveys (March 29, 2011, through May 5, 2011) are included below. The results of focused surveys for listed species are typically considered valid for 1 year by the resource agencies.

Erin Bergman AECOM Biologist

Michael Couffer AECOM Biologist

Bonnie Hendricks AECOM Biologist

Ken Osborne AECOM Biologist Adam Behle Subcontracted Biologist

(foto 200

Andrew Fisher AECOM Biologist

Kyle Ince

Subcontracted Biologist

Erin Riley

AECOM Biologist

Barbra Calantas AECOM Biologist

Antonette Gutierrez Subcontracted Biologist

Margaret Mulligan AECOM Biologist

Steve Rink

Subcontracted Biologist

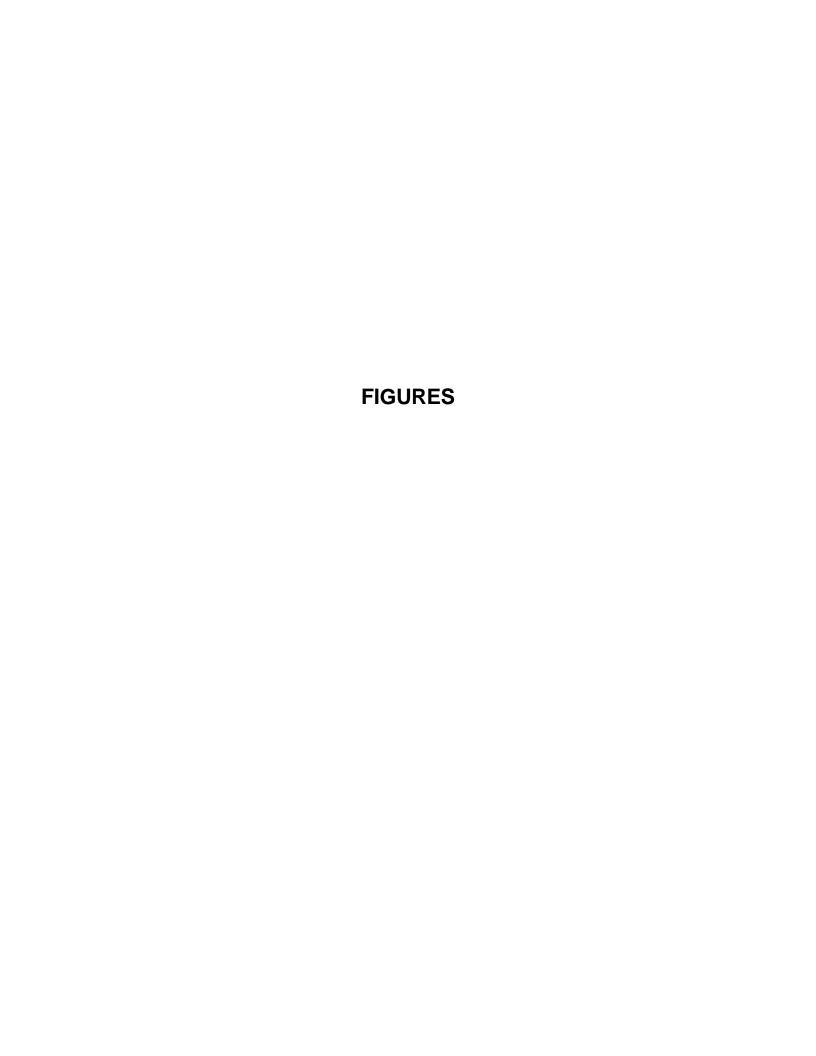


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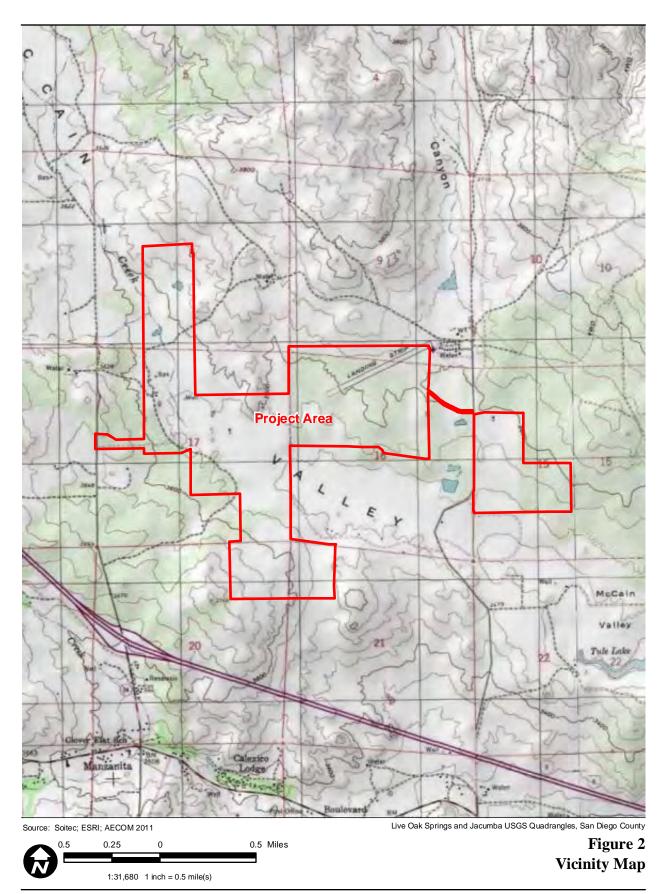


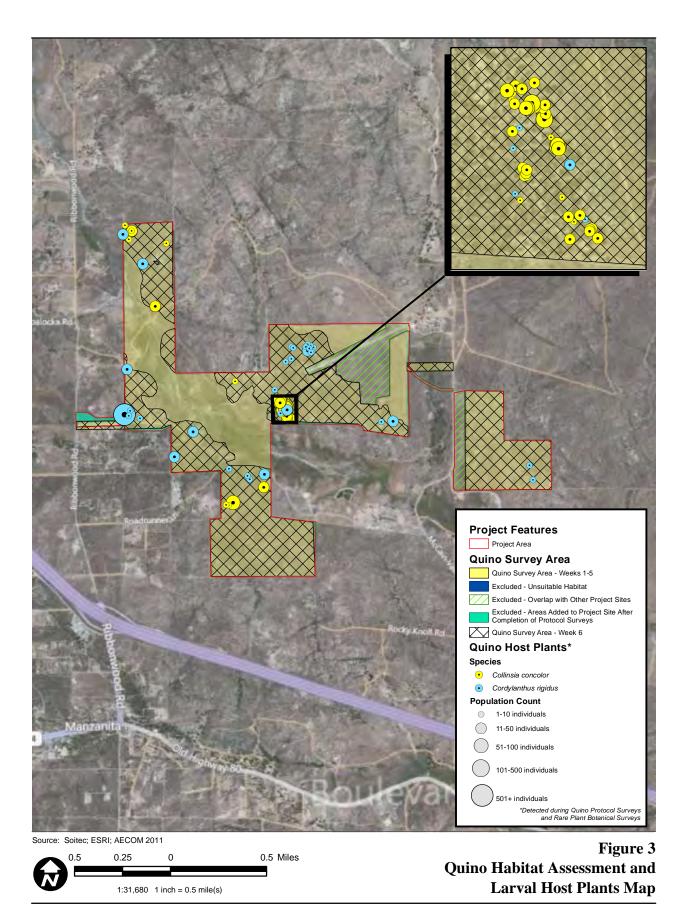
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2011 Rugged Solar Energy Project Quino Checkerspot Butterfly 45-Day Report





APPENDIX A SUMMARY OF WEEKLY BUTTERFLY AND MOTH SPECIES OBSERVATIONS DURING QUINO SURVEYS

APPENDIX A SUMMARY OF WEEKLY BUTTERFLY AND MOTH SPECIES OBSERVATIONS DURING QUINO SURVEYS

	Survey Week 1	Survey Week 2	Survey Week 3	Survey Week 4	Survey Week 5	Survey Week 6	TOTAL
Nymphalidae (Brushfooted Butterflies)		l					
Chlosyne gabbii (Gabb's checkerspot)	0	1	0	0	1	1	3
Euphydryas chalcedona (Henne's checkerspot)	2	0	0	0	2	2	6
Junonia coenia (common buckeye)	0	3	39	61	55	45	203
Vanessa annabella (west coast lady)	1	0	2	1	0	0	4
Vanessa atalanta (red admiral)	0	0	0	0	2	1	3
Vanessa cardui (painted lady)	3	4	2	0	3	0	12
Vanessa sp. (lady sp.)	2	5	2	0	0	0	9
Danaidae (Milkweed Butterflies)	<u>'</u>	<u> </u>	<u> </u>	l .			
Danaus plexippus (monarch)	0	0	0	0	0	1	1
Pieridae (Whites, Sulphurs)							
Anthocaris sp. (orangetip sp.)	0	9	0	0	0	0	9
Anthocharis cethura (Felder's orangetip)	3	2	0	0	0	0	5
Anthocharis sara (Sara orangetip)	59	78	51	17	10	4	219
Colias eurytheme (Orange sulphur)	7	0	1	7	5	30	50
Colias harfordii (Harford's sulphur)	5	3	6	7	11	54	86
Colias sp. (sulphur sp.)	3	3	4	4	0	0	14
Euchloe hyantis (desert pearly marble)	98	69	25	5	7	0	204
Nathalis iole (dainty sulphur)	3	0	2	0	1	18	24
Pieris rapae (cabbage white)	0	2	0	0	0	0	2
Pontia beckerii (Beker's white)	0	5	2	3	4	1	15
Pontia protodice (common white)	9	16	9	34	22	57	147
Pontia sisymbrii (spring white)	5	0	0	3	1	0	9
Pontia sp. (white sp.)	11	4	0	0	0	0	15
Papilionidae (Swallowtails)	<u>'</u>	<u> </u>	<u> </u>	l .			
Papilio eurymedon (pale swallowtail)	0	1	3	1	1	4	10
Papilio polyxenes (desert black swallowtail)	1	1	1	0	0	0	3
Papilio rutulus (western tiger swallowtail)	0	0	0	0	3	0	3
Papilo sp. (swallowtail sp.)	0	1	0	0	0	0	1
Riodiniade (Metalmarks)	<u>'</u>	<u> </u>	<u> </u>	l .			
Apodemia mormo (Behr's metalmark)	365	574	679	684	940	439	3,681
Lycaenidae (Hairstreaks and Blues)							
Atlides halesus (great purple hairstreak)	0	0	0	0	2	0	2
Brephidium exile (western pygmy blue)	0	0	0	0	0	2	2
Callophrys augustinus (brown elfin)	4	0	1	2	4	0	11
Callophrys dumetorum (perplexing green hairstreak)	55	20	10	4	1	1	91
Euphilotes battoides	0	0	0	0	0	12	12
Everes amyntula (western-tailed blue)	1	4	5	1	7	32	50
Glaucopsyche lygdamus (southern blue/silvery blue)	0	2	0	0	5	2	9
Glaucopsyche piasus	0	0	0	0	1	0	1
Icaria acmon (acmon blue)	28	52	17	9	25	46	177
Philotes sonorensis (sonoran blue)	0	0	0	2	0	0	2
Plebejus lupine	0	0	0	0	3	3	6

	Survey Week 1	Survey Week 2	Survey Week 3	Survey Week 4	Survey Week 5	Survey Week 6	TOTAL
Hesperiidae (Skippers)							
Atalopedes campestris (sachem)	0	5	0	0	0	0	5
Erynnis brizo (sleepy duskywing)	6	3	1	2	2	4	18
Erynnis funeralis (funereal duskywing)	5	8	3	0	3	0	19
Erynnis propertius (propertius duskywing)	6	14	10	11	12	10	63
Erynnis sp. (duskywing sp.)	12	9	2	1	0	0	24
Erynnis tristis (sad duskywing)	1	1	1	1	4	0	8
Heliopetes ericetorum (northern white skipper)	0	0	0	0	2	2	4
Hesperia juba (juba skipper)	0	2	6	10	8	29	55
Ochlodes agricola	0	0	0	0	1	0	1
Philosora catullus (common sootywing)	0	9	19	14	10	8	60
Polites sabuleti (sandhill skipper)	0	0	1	45	58	23	127
Pyrgus communis (checkered skipper)	0	0	0	1	0	0	1
Moths							
Autographa californica	0	0	1	0	0	0	1
Drasteria biformata	0	0	1	0	0	0	1
Drasteria convergens	0	0	0	0	1	0	1
Drasteria divergens	0	0	1	0	0	0	1
Drasteria fumosa	0	0	1	0	0	0	1
Drasteria ochracae	0	0	0	0	1	3	4
Drasteria tejonica	3	0	0	3	0	0	6
Heliothis belladona	0	0	2	0	0	0	2
Kodiosoma fulva	0	0	0	0	3	1	4
Leptarctia californica	0	0	0	2	0	0	2
Litocola sexsignata	16	1	0	0	0	0	17
Schinia aurantiaca	0	0	0	1	6	3	10
Stylopoda cephalica	0	0	0	0	4	0	4
Unknown moth	0	0	4	2	0	0	6

APPENDIX B DAILY WEATHER CONDITIONS DURING QUINO SURVEYS

APPENDIX B DAILY WEATHER CONDITIONS DURING QUINO SURVEYS

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
3/29/2011	1	Erin Bergman	0945	68.9	1.4-3.8	0	clear
3/29/2011	1	Erin Bergman	1045	70.1	1.9-2.6	0	clear
3/29/2011	1	Erin Bergman	1145	71.8	1.0-2.6	0	clear
3/29/2011	1	Erin Bergman	1245	76.9	1.9-2.3	0	clear
3/29/2011	1	Erin Bergman	1345	70.0	0.8-2.5	0	clear
3/29/2011	1	Erin Bergman	1445	69.0	0.8-2.5	0	patchy
3/29/2011	1	Erin Bergman	1600	68.0	0.8-2.5	80	patchy
3/29/2011	1	Andrew Fisher	0920	64	1–2 W	0	clear
3/29/2011	1	Andrew Fisher	1130	68	2–3 W	0	clear
3/29/2011	1	Andrew Fisher	1430	73	3 W	5	clear
3/29/2011	1	Andrew Fisher	1530	75	2–3 W	65	patchy
3/29/2011	1	Bonnie Hendricks	0900	66	3.6-7.5	0	clear
3/29/2011	1	Bonnie Hendricks	1000	68	2.7-3.9	0	clear
3/29/2011	1	Bonnie Hendricks	1100	67	1.4-6.0	0	clear
3/29/2011	1	Bonnie Hendricks	1220	71	2.4-7.0	0	clear
3/29/2011	1	Bonnie Hendricks	1345	70	1.9-3	0	clear
3/29/2011	1	Bonnie Hendricks	1500	74	2.4-4.2	50	patchy
3/29/2011	1	Bonnie Hendricks	1600	68	1.2-3.5	80	overcast
3/29/2011	1	Margie Mulligan	0910	68	1–3	0	clear
3/29/2011	1	Margie Mulligan	1200	70	2–3	2	clear
3/29/2011	1	Margie Mulligan	1410	70	1–3	5	clear
3/30/2011	1	Erin Bergman	0930	63	1.5	15	clear
3/30/2011	1	Erin Bergman	1250	72	1.5	0	clear
3/30/2011	1	Erin Bergman	1430	73	6–8	0	clear
3/30/2011	1	Barbra Calantas	0840	64.2	1.5-3.0	0	clear
3/30/2011	1	Barbra Calantas	0940	67.1	2.8-3.5	5	clear
3/30/2011	1	Barbra Calantas	1040	68.5	4.3-5.5	2	clear
3/30/2011	1	Barbra Calantas	1140	71.7	4.5-4.6	2	clear
3/30/2011	1	Barbra Calantas	1240	72.1	10.4-15.1	2	clear
3/30/2011	1	Barbra Calantas	1330	72.0	6.3-8.9	2	clear
3/30/2011	1	Bonnie Hendricks	0850	63.7	1.5-4.3	15	clear
3/30/2011	1	Bonnie Hendricks	1000	69.1	7.1-11.4	2	clear
3/30/2011	1	Bonnie Hendricks	1230	72.1	8.6-13.4	1	clear
3/30/2011	1	Bonnie Hendricks	1330	73.2	6.7-12.2	5	clear
3/30/2011	1	Bonnie Hendricks	1430	75.8	3.2-6	60	patchy
3/30/2011	1	Bonnie Hendricks	1600	75.2	1.3-2.6	80	patchy
3/31/2011	1	Andrew Fisher	1300	85	2–3 W	0	clear
3/31/2011	1	Andrew Fisher	1500	81	2–3 W	0	clear
3/31/2011	1	Andrew Fisher	1726	81	1–2 W	0	clear
4/1/2011	1	Mike Couffer	0830	81	0	0	clear
4/1/2011	1	Mike Couffer	0900	83	0–1	0	clear
4/1/2011	1	Mike Couffer	1000	85	0–3	0	clear
4/1/2011	1	Mike Couffer	1100	85	0–3	0	clear
4/1/2011	1	Mike Couffer	1200	87	1–5	0	clear
4/1/2011	1	Mike Couffer	1300	86	1–4	0	clear
4/1/2011	1	Mike Couffer	1400	86	0	0	clear
4/1/2011	1	Andrew Fisher	0837	75.5	0	0	clear
4/1/2011	1	Andrew Fisher	1347	88	0	0	clear
4/4/2011	2	Adam Behle	0900	62	2-10	0	clear
4/4/2011	2	Adam Behle	1200	73	2-9	0	clear
4/4/2011	2	Adam Behle	1520	-	2-6	0	clear
4/4/2011	2	Erin Bergman	0900	61	1–3	0	clear
4/4/2011	2	Erin Bergman	1100	70	1–5	0	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
4/4/2011	2	Erin Bergman	1200	69	1–3	0	clear
4/4/2011	2	Erin Bergman	1300	68	1–6	0	clear
4/4/2011	2	Erin Bergman	1400	72	2–6	0	clear
4/4/2011	2	Erin Bergman	1600	73	2–7	0	clear
4/4/2011	2	Margie Mulligan	0915	60	5–8	0	clear
4/4/2011	2	Margie Mulligan	1030	64	2–4	0	clear
4/4/2011	2	Margie Mulligan	1300	71	2–5	0	clear
4/4/2011	2	Margie Mulligan	1420	74	3–6	0	clear
4/4/2011	2	Margie Mulligan	1600	76	3–5	0	clear
4/5/2011	2	Barbra Calantas	0900	60.8	0.7-2.3	12 haze	clear
4/5/2011	2	Barbra Calantas	1000	70.5	1.9–3.7	15 haze	clear
4/5/2011	2	Barbra Calantas	1100	72.3	1.9-2.8	25 haze	clear
4/5/2011	2	Barbra Calantas	1200	79.1	1.1-5.0	40 haze	clear
4/5/2011	2	Barbra Calantas	1300	78.4	1.0-5.4	70 haze	patchy
4/5/2011	2	Mike Couffer	0830	68	0	high clouds	clear
4/5/2011	2	Mike Couffer	0900	70	0–1	high clouds	clear
4/5/2011	2	Mike Couffer	1000	73	0–2	high clouds	clear
4/5/2011	2	Mike Couffer	1100	75	0–4	high clouds	clear
4/5/2011	2	Mike Couffer	1200	77	0–4	high clouds	clear
4/5/2011	2	Mike Couffer	1300	77	2–7	30	patchy
4/5/2011	2	Mike Couffer	1400	79	2–6	50	overcast
4/5/2011	2	Andrew Fisher	1220	80	3–4	50	patchy
4/5/2011	2	Andrew Fisher	1400	78	4-10.0	80	patchy
4/5/2011	2	Andrew Fisher	1515	72	5-10.0	85	patchy
4/5/2011	2	Bonnie Hendricks	0900	69.4	2.2-5.5	10	clear
4/5/2011	2	Bonnie Hendricks	1050	81.2	1.8-3.3	40	clear
4/5/2011	2	Bonnie Hendricks	1130	83.5	2.1-4.5	30	clear
4/5/2011	2	Bonnie Hendricks	1250	76.8	3.2-7.8	50	patchy
4/5/2011	2	Bonnie Hendricks	1320	73.5	5.6-8.7	75	patchy
4/5/2011	2	Bonnie Hendricks	1430	80.6	5.3-8.5	75	patchy
4/5/2011	2	Bonnie Hendricks	1600	72.7	4.1-7.2	80	overcast
4/5/2011	2	Kyle Ince	0915	66	2-3	5	clear
4/5/2011	2	Kyle Ince	1020	66	2-5	10	clear
4/5/2011	2	Kyle Ince	1130	80	5-10	15	patchy
4/5/2011	2	Kyle Ince	1300	76	2-8	25	patchy
4/5/2011	2	Kyle Ince	1430	74	2-8	50	patchy
4/5/2011	2	Kyle Ince	1500	-	5-8	75	overcast
4/5/2011	2	Margie Mulligan	0915	68	2–5	35	patchy
4/5/2011	2	Margie Mulligan	1115	72	3–6	35	patchy
4/5/2011	2	Margie Mulligan	1300	74	3–6	55 65	patchy
4/5/2011	2 2	Margie Mulligan Steve Rink	1400	77 61	6–8	65 15	patchy
4/5/2011 4/5/2011	2	Steve Rink Steve Rink	0800 1021	70	1-2 5-3	15 15	patchy
4/5/2011	2	Steve Rink Steve Rink	1205	70	5-3 5-7	15	patchy
4/5/2011	2	Steve Rink	1420	72	7-12	15	patchy patchy
4/5/2011	2	Steve Rink	1520	70	7-12	15	patchy
4/14/2011	3	Erin Bergman	0900	60	0–3	0	clear
4/14/2011	3	Erin Bergman	1000	63	0-3	0	clear
4/14/2011	3	Erin Bergman	1100	66	0-3	0	clear
4/14/2011	3	Erin Bergman	1200	68	0-3	0	clear
4/14/2011	3	Erin Bergman	1300	72	0-3	0	clear
4/14/2011	3	Erin Bergman	1400	73	0-3	0	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
4/14/2011	3	Antonette Gutierrez	1000	60	3.2-6	0	clear
4/14/2011	3	Antonette Gutierrez	1100	60	3.2-6	0	clear
4/14/2011	3	Antonette Gutierrez	1200	62	3-8	0	clear
4/14/2011	3	Antonette Gutierrez	1300	62	2-6	0	clear
4/14/2011	3	Antonette Gutierrez	1400	64	2-6	0	clear
4/14/2011	3	Antonette Gutierrez	1500	64	2-6	0	clear
4/14/2011	3	Antonette Gutierrez	1600	64	2-6	0	clear
4/14/2011	3	Bonnie Hendricks	1115	70.6	2.6-5.6	0	clear
4/14/2011	3	Bonnie Hendricks	1200	70.2	3.2-5.9	0	clear
4/14/2011	3	Bonnie Hendricks	1305	67.1	5.3-9.5	0	clear
4/14/2011	3	Bonnie Hendricks	1400	71.5	4.1-7.2	0	clear
4/14/2011	3	Bonnie Hendricks	1500	70.2	4.3-6.4	0	clear
4/14/2011	3	Bonnie Hendricks	1610	69.0	2.9-5.7	0	clear
4/14/2011	3	Kyle Ince	1000	61	2	2	clear
4/14/2011	3	Kyle Ince	1115	65	2	2	clear
4/14/2011	3	Kyle Ince	1230	68	2	0	clear
4/14/2011	3	Kyle Ince	1340	70	2	0	clear
4/14/2011	3	Kyle Ince	1430	70	2	0	clear
4/14/2011	3	Kyle Ince	1545	70	3	0	clear
4/14/2011	3	Margie Mulligan	0845	60	1–5	2	clear
4/14/2011	3	Margie Mulligan	1130	64	3–8	5	clear
4/14/2011	3	Margie Mulligan	1420	68	3–5	5	clear
4/14/2011	3	Margie Mulligan	1600	68	2–5	5	clear
4/14/2011	3	Steve Rink	1000	60	3.2-6	0	clear
4/14/2011	3	Steve Rink	1200	63	1.7-5	0	clear
4/14/2011	3	Steve Rink	1400	64	3-7	0	clear
4/14/2011	3	Steve Rink	1602	63	3-5	0	clear
4/15/2011	3	Mike Couffer	1100	65	4–10	0	clear
4/15/2011	3	Mike Couffer	1200	69	4–10	0	clear
4/15/2011	3	Mike Couffer	1300	72	2–7	0	clear
4/15/2011	3	Mike Couffer	1330	73	1–6	0	clear
4/15/2011	3	Mike Couffer	1400	73	1–4	0	clear
4/15/2011	3	Mike Couffer	1500	74	1–3	0	clear
4/15/2011	3	Mike Couffer	1600	76	0–3	0	clear
4/15/2011	3	Antonette Gutierrez	0930	64	6.2-10	0	clear
4/15/2011	3	Antonette Gutierrez	1030	68	6.4-12	0	clear
4/15/2011	3	Antonette Gutierrez	1130	70	6.4-12	0	clear
4/15/2011	3	Antonette Gutierrez	1230	72	6-12	0	clear
4/15/2011	3	Antonette Gutierrez	1330	74	6.2-12	0	clear
4/15/2011	3	Antonette Gutierrez	1430	74	3.2-8	0	clear
4/15/2011	3	Antonette Gutierrez	1530	74	3.2-6	0	clear
4/15/2011	3	Margie Mulligan	0930	64	2–7	0	clear
4/15/2011	3	Margie Mulligan	1242	73	3–7	0	clear
4/15/2011	3	Margie Mulligan	1520	76	2–5	0	clear
4/15/2011	3	Ken Osborne	1030	69	5.2-7.4	0	clear
4/15/2011	3	Ken Osborne	1145	67	5.7-12.9	0	clear
4/15/2011	3	Ken Osborne	1345	77	5-10	0	clear
4/15/2011	3	Ken Osborne	1600	74	4-6	0	clear
4/15/2011	3	Erin Bergman	1000	60	1–2	0	clear
4/15/2011	3	Erin Bergman	1200	63	1–2	0	clear
4/15/2011	3	Erin Bergman	1400	64	1–2	0	clear
4/15/2011	3	Erin Bergman	1602	63	1–2	0	clear
4/18/2011	4	Erin Bergman	11002	62	1–2	0	clear
4/18/2011	4	Erin Bergman	1400	60	0	0	clear
4/18/2011	4	Antonette Gutierrez	1100	60	1.6-9.2	70	patchy
4/18/2011	4	Antonette Gutierrez	1200	65	3-9.2	15	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
4/18/2011	4	Antonette Gutierrez	1300	64	6-13	40	patchy
4/18/2011	4	Antonette Gutierrez	1400	60	9-20	75	patchy
4/18/2011	4	Antonette Gutierrez	1420	60	9-20	75	patchy
4/19/2011	4	Mike Couffer	1030	64	5–11	0	clear
4/19/2011	4	Mike Couffer	1100	66	2–6	0	clear
4/19/2011	4	Mike Couffer	1200	70	3–12	0	clear
4/19/2011	4	Mike Couffer	1300	70	2–7	0	clear
4/19/2011	4	Mike Couffer	1400	72	3–11	0	clear
4/19/2011	4	Mike Couffer	1500	73	2–8	0	clear
4/19/2011	4	Margie Mulligan	1030	62	4–11	10	clear
4/19/2011	4	Margie Mulligan	1230	73	6–15	10	clear
4/19/2011	4	Margie Mulligan	1345	63	5–13	5	clear
4/19/2011	4	Margie Mulligan	1600	69	3–6	5	clear
4/19/2011	4	Ken Osborne	1030	69	3-9.5	0	clear
4/19/2011	4	Ken Osborne	1148	71	2.4-8.8	0	clear
4/19/2011	4	Ken Osborne	1432	69	7.4-10	0	clear
4/19/2011	4	Ken Osborne	1600	69	2.5-6.8	0	clear
4/19/2011	4	Steve Rink	1015	63	7-3.5	2–5	patchy
4/19/2011	4	Steve Rink	1210	65	12-6.2	2–5	patchy
4/19/2011	4	Steve Rink	1300	67	16.5-6.5	0	clear
4/19/2011	4	Steve Rink	1545	67	15.8-5.2	0	clear
4/20/2011	4	Mike Couffer	1200	73	7–16	0	clear
4/20/2011	4	Mike Couffer	1300	72	5–10 5–11	0	clear
4/20/2011	4	Mike Couffer	1400	71	3–17	0	clear
4/20/2011	4	Mike Couffer	1500	70	10–13	0	clear
4/20/2011	4	Mike Couffer	1600	70	7–12	0	clear
4/20/2011	4	Ken Osborne	0900	63	2-3	0	clear
4/20/2011	4	Ken Osborne	1040	68	2.5-4.9	0	clear
4/20/2011	4	Steve Rink	0938	62	2.5-4.9	2–5	
4/20/2011	4	Steve Rink	1105	63	6.2-2.5	2-5	patchy
4/20/2011	4	Steve Rink	1235	64	7.2-16.5	2–5	patchy
	4		1417	65		1–2	patchy
4/20/2011	4	Steve Rink Steve Rink		67	12.9-20.8		clear
4/20/2011			1556	64	9.6-16.8	0	clear
4/21/2011	4	Barbra Calantas	1045		6.2-17	5	clear
4/21/2011	4	Barbra Calantas	1145	66.2	5.3-13.8	5	clear
4/21/2011	4	Barbra Calantas	1245	66.8	3.8-9.2	5	clear
4/21/2011	4	Barbra Calantas	1345	67.2	3.9-8.2	10	clear
4/21/2011	4	Barbra Calantas	1445	66.7	10.1-13.8	10	clear
4/21/2011	4	Barbra Calantas	1530	67.1	2.1-8.8	15	clear
4/25/2011	5	Mike Couffer	0900	67	0	0	clear
4/25/2011	5	Mike Couffer	1000	72	0–1	0	clear
4/25/2011	5	Mike Couffer	1100	76	0	0	clear
4/25/2011	5	Mike Couffer	1200	76	3–9	0	clear
4/25/2011	5	Mike Couffer	1300	76	2–9	0	clear
4/25/2011	5	Mike Couffer	1400	76	4–8	0	clear
4/25/2011	5	Mike Couffer	1500	76	4–12	0	clear
4/25/2011	5	Antonette Gutierrez	0900	62	0	15	clear
4/25/2011	5	Antonette Gutierrez	1000	70	0-2.1	15	clear
4/25/2011	5	Antonette Gutierrez	1100	74	0-16.1	15	clear
4/25/2011	5	Antonette Gutierrez	1200	76	2.1-7	15	clear
4/25/2011	5	Antonette Gutierrez	1300	76	6-13	15	clear
4/25/2011	5	Antonette Gutierrez	1400	76	6-13	15	clear
4/25/2011	5	Antonette Gutierrez	1530	74	9.7-15	15	clear
4/25/2011	5	Margie Mulligan	0910	66	1–3	10	clear
4/25/2011	5	Margie Mulligan	1200	74	4–8	10	clear
4/25/2011	5	Margie Mulligan	1530	77	4–9	15	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
4/25/2011	5	Ken Osborne	0935	73	2-4	0	clear
4/25/2011	5	Ken Osborne	1100	75	calm	0	clear
4/25/2011	5	Ken Osborne	1400	73	7-14.8	0	clear
4/25/2011	5	Ken Osborne	1545	73	10.3-20.9	0	clear
4/25/2011	5	Ken Osborne	1605	73	10.3-20.9	0	clear
4/26/2011	5	Ken Osborne	0935	64	3-5	0	clear
4/26/2011	5	Ken Osborne	1045	67	4-7	0	clear
4/26/2011	5	Ken Osborne	1200	70	1-8	0	clear
4/26/2011	5	Ken Osborne	1345	71	2-5	0	clear
4/26/2011	5	Ken Osborne	1410	72	3.6-5	0	clear
4/26/2011	5	Antonette Gutierrez	0900	62	1.8-6	0	clear
4/26/2011	5	Antonette Gutierrez	1100	71	1.1-5	0	clear
4/26/2011	5	Antonette Gutierrez	1200	75	0-5	0	clear
4/26/2011	5	Antonette Gutierrez	1315	78	2.1-3.6	0	clear
4/26/2011	5	Antonette Gutierrez	1330	76	2.1-8	0	clear
4/26/2011	5	Antonette Gutierrez	1450	76	1.9-7.8	0	clear
4/26/2011	5	Mike Couffer	0900	61	0–1	0	clear
4/26/2011	5	Mike Couffer	1000	68	0–5	0	clear
4/26/2011	5	Mike Couffer	1100	74	0–3	0	clear
4/26/2011	5	Mike Couffer	1200	73	0–7	0	clear
4/26/2011	5	Mike Couffer	1230	76	0–3	0	clear
4/26/2011	5	Mike Couffer	1300	77	0	0	clear
4/26/2011	5	Mike Couffer	1400	80	0–1	0	clear
4/26/2011	5	Mike Couffer	1500	78	2–6	0	clear
4/27/2011	5	Ken Osborne	0834	63	1.5-3	0	clear
4/27/2011	5	Ken Osborne	0930	71	3-6	0	clear
4/27/2011	5	Ken Osborne	1115	75	5-12	0	clear
4/27/2011	5	Ken Osborne	1415	72	6-9	0	clear
4/27/2011	5	Ken Osborne	1500	71	1.8-5	0	clear
4/27/2011	5	Ken Osborne	1600	72	calm	0	clear
4/27/2011	5	Erin Bergman	0830	70	1–4	0	clear
4/27/2011	5	Erin Bergman	0900	72	1–4	0	clear
4/27/2011	5	Erin Bergman	1000	73	1–4	0	clear
4/27/2011	5	Erin Bergman	1100	73	1–4	0	clear
4/27/2011	5	Erin Bergman	1200	77	1–4	0	clear
4/27/2011	5	Erin Bergman	1600	74	1–4	0	clear
5/1/2011	5	Ken Osborne	0930	56	7-14	0	clear
5/1/2011	5	Ken Osborne	1030	62	8-15	0	clear
5/1/2011	5	Ken Osborne	1200	61	8-14	0	clear
5/2/2011	6	Bonnie Hendricks/ Ken Osborne	1050	67	7.2-14.9	0	clear
5/2/2011	6	Bonnie Hendricks/ Ken Osborne	1200	65	8-12	0	clear
5/2/2011	6	Bonnie Hendricks/ Ken Osborne	1300	68	6-11	0	clear
5/2/2011	6	Bonnie Hendricks/ Ken Osborne	1400	70	5-9	0	clear
5/2/2011	6	Bonnie Hendricks/ Ken Osborne	1500	71	11-6	0	clear
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	0925	69	4-6	0	clear
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	1115	75	4-6.2	0	clear
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	1200	75	4-8	0	clear
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	1315	75	7.8-9.8	0	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed range (mph)	Cloud Cover (%)	General Sky Condition
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	1445	75	5-8	0	clear
5/3/2011	6	Ken Osborne/ Bonnie Hendricks	1610	74	calm	0	clear
5/3/2011	6	Margie Mulligan	0900	75	2–5	0	clear
5/3/2011	6	Margie Mulligan	1130	78	3–6	0	clear
5/3/2011	6	Margie Mulligan	1200	80	2–4	0	clear
5/3/2011	6	Margie Mulligan	1500	83	2–4	0	clear
5/4/2011	6	Erin Bergman	1200	85	0	0	clear
5/4/2011	6	Erin Bergman	1630	94	0	0	clear
5/4/2011	6	Ken Osborne	1140	88	4-6	0	clear
5/4/2011	6	Ken Osborne	1550	90	calm	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	0945	82	1.9-3.7	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1045	85	2.3-5.1	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1145	88.5	4.6-7.4	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1300	90.5	3-5.6	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1400	90.7	2.2-4.6	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1500	89	1.3-2.1	0	clear
5/5/2011	6	Bonnie Hendricks/ Erin Bergman	1600	87.5	5.6-9.6	0	clear
5/5/2011	6	Margie Mulligan	0930	82	2–6	5	clear
5/5/2011	6	Margie Mulligan	1200	89	2–4	5	clear
5/5/2011	6	Margie Mulligan	1500	91	0–2	0	clear
5/5/2011	6	Margie Mulligan	1600	88	2–6	0	clear
5/5/2011	6	Ken Osborne	0930	85	2-4	0	clear
5/5/2011	6	Ken Osborne	1100	90	calm	0	clear
5/5/2011	6	Ken Osborne	1315	87	1-2	0	clear
5/5/2011	6	Ken Osborne	1445	85	3.3-5.5	0	clear
5/5/2011	6	Ken Osborne	1600	85	3-5	0	clear
5/5/2011	6	Erin Bergman	0950	83	-	0	clear
5/5/2011	6	Erin Bergman	1600	90	-	0	clear

APPENDIX C FIELD DATA COLLECTED DURING QUINO SURVEYS

27			
Recorder: <u>Frin Renama N</u> Add Person; A	J/A	Date: March 39, 11 GPS Unit: 1	1
Project: Concentrix Soler Project Map #: 2 Survey S	Sxn:	QCB Protocol Survey # of	5
TIME (24-hour) Temp (F*): Vind (4)/g/max) 1	sec .		
$ s_{\text{out}} = 4:1/5$ $ s_{\text{ol}} = 4:1/4/3.8$	7		
70. 10.46 0	<u> </u>		·
1 	໌ງ :		
		Otens patchy reginasi, dr./de shows	
-1 1 1)	<u>elega</u> (x erdiy overtinal district abover	
70.11	1		
<u> </u>		clear colicly overcast disable shower	
End 4,000 62, 0.8/20 3			
Habita: On-site (circle): open soils, hifftops, ridges, rock outcrops, s:		27 22 22 23 424 424 424 424 424 424 424 42	
Nymphaildae (Brushfooted Butterfiles)	Total	Hannadidan (Chimnan)	Total
Euphydryes edithe (Quino Checkerspot)	·	Hesperiidae (Skippers)	
Euphydryas chalcedona (Harne's Checkerspot)	-	Erynnis funeralis (Funereal Duskywing))	<u> </u>
Thosselia leanira (Wright's Checkerspot)	 	Erynnis tristis (Sad Duskywing)	ļ
Chlosyne californica (California Patch)	+	Erynnis propertius (Propertius Duskywing)	
Chiosyne gabbii (Gabb's Checkerspot)	+	Eryonis brizo (Sleepy Duskeywing)	ļ
Phyciodes mylitta (Mylitta Crescent)	+-	Pyrgus communis(Checkered Skipper)	
Junoriia coenia (Common Buckeye)	l —	Hesperia jubia (Jubia Skipper)	
Vanessa annabello (West Coast Lady)	.∤ ——	Polites sobuleti (Sandhilt Skipper)	l
Vunassa atalanta (Red Admiral)	<u> </u>	Megalhymidae (Glant Skippers)	
Vanessa cardui (Painted Lady) ∮		Megathymus yuccaв (Yucca Grant Skipper)	
Vanesso virginiansis (Virginia Lady)	┼╇	Other Bust autitor	<u> </u>
Nymphelis celifornica (California Tortoiseshell)		Other Butterflies:	
Danaidae (Mikweed Butterfilas)	-	While sp. 1	· ·
Danaus ploxippus (Monarch)	∔ :	Duskynning se	<u>. </u>
Denaus giliopus (Queen)	.	 	L
Salyridae (Satyrs)			
Coencrympha celifornica (Common California Ringlet)	⊹	 	
Pieridae (Whites, Suiphurs)	 	<u>:</u>	<u> </u>
Pieris rapse (Cabbage White)		<u>: </u>	
Pontie sisymbni (Spring White)	<u> </u>	-	
Portia beckerii (Beker's White)			!
Pontia protodice (Common White)	÷ —	, — — —	
Anthochans sara (Sara Orangetip)[[·} ~	l ————————————————————————————————————	<u></u>
Anthocharis cethura (Folder's Orangetip)	2		
Euchloe hyuntis (Desert Pearly Marble) } [[]	 		
Collas eurytheme (Orange Sulphur)	 -	 	
Collas harfordii (Harford's Sulphur)	++ −	 	
Nathelis iole (Dainty Sulphur)	ł	 	
Papilionidae (Swallowtalls)	┥──	Notes:	
Papillo polyxenes (Deserl Black Swallowtail)	┥	· 	<u> </u>
Papillo eurymedon (Pale swellowfail)	:	California gerail at Cost 45	
Papilio rutulus(Western Tiger Swallowteil)	 	The fall of all local 15	
Riodiniade (Metalmarks)	┼ -	Comorals Vanc.	
Apodemia mormo (Behr's Motalmark) [4]	12	Kest to led House - 2	
Lycaenidae (Hairstreaks and Blues)	H ~	So to to	
Cetastrina ladon (Spring Azure)		Spotted towker -1	
Loptotos merine(Marine Blue)	· —	1300 10 13 1000 1 1010 1	
Brephidium exile (Western Pygmy Brue)	··-	ME STEAM ILLUSTICATION OF A POPULA	
Glaucopsyche lygdemus (Southern Blue/Silvery blue)	<u> </u>	+ ·· · - · · · · · · · · · · · ·	_
Hemiergus cereurus (Edward's Blue)	! —	<u> </u>	
icarie acmon (Acmon Blue)	/	 	
Philoles sonorensis(Sonoran Blue)	-7-	 	
Callophrys augustinus (Brown Elfin)	 	 	
Calkophrys dumetorum (Pemlaxing Green Hairstreak)	+ u—	├ ·	_
Strymon malinus (Gray Hairstreak)	1 -1	·i	
Affides halesus (Great Purple Hairstreak)	· —·	· · — – —	
- mass maryone forest rappa rishes/bank	├ ·	··	
	L <u>.</u>		

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Erin Bergmans Antirrhinum coulterianum = AC Collinsia concolor = CC mard, 29,11 Cordylanthus rigidus = CR Plantago patagonica = PP

ж	Amsın ci va menzlesli
o	Antirrhimum coulterlann

Antimhinum nutfalllanum

Asclepios fescicularis

Boechera sp.

Calendrinia cilieta

Calochortus concolor

Catystegia longipes:

Camissonia sp. Castilloja oxerta

Caulanthus heterophytius

Cautenthus simulans Ceanothus cuneatus

х Ceanothus greggii Coanolhus leucodermis

Chapnactis ortemisilfolia Cheenactis glabriuscula

× Clematis sp.

Collinsia concolor Cordylanthus rigidus

Comonsis celifornica

Corethropyno filaginifolia Cryptanths so.

Cucurbita foetidissima

Descuratnia sp. o Dicentra chrysantha

0 Dichelostemma capitotum

Dudlaya sp

Emmenanthe pondulifera

Eriastrum sp. Ericementa sp.

Engeron foliosus

Erlodictyon Inchocalysi Eriogonum fasciculatum

Enogonum sp.

Eriophyllum sp. *

Erodium cicutarium* Erysismum copitatum

Eschecholzia californica

Eucrypta chrysanthemifolia 0 Euthamia occidentalia

Garrya veatchii

Gilla sp. r) Gnaphalium

0 Guillenia tasiophylle

Gutierrazie serothrae

Heliotropium curessavicum

a Hirshfeldia Incana Lamium amplexicaula

Losthenia gracilis

Layia glandulosa

Lepidium so. Linanthus bellus

Linanthus dicholomus 0 Lonicora subspicata

Malacothrix californica

Malacothrix clavelandii ٥

Marah macrocarpus ٥ Mamihium vulgare*

Matricaria matricarioides* Mentzelia veatchiana

Microsteria precilia

Mimulus sp.

Nemophila menzeisii Orobanche bulbosa

Rancher's Fiddleneck

Coulter's Snapdragon

Nuttali's Snapdragon Narrow-leaf Milkweed

Rock Cress

Red Maids

Golden-bowl Mariposa Lily

Morning-glory Sun Çup Paintbrush

San Diego Jewelflower

Payson's Caulanthus

Buck Brush Cup-leat-lilac

Chaparral Whitelborn

White Placushion

Yellow Pincushion

Clemates.

Southern Chinese Houses

Dark-tip Bird's Beak California Coreopsis

Common Send-aster

Ctyptantha Calabazilia

Tansy-mustard

Golden Ear-drops

Blue Dicks Dudleya

Whispering Bells

Woolly-star Goldenbush:

Leafy Daisy Hairy Yerba Santa

Inland California Buckwheat

Buckwheat

Long-stem Golden-yarrow

Red-stem Storksbijt Western Wallflower California Poppy

Spotted Hideseed Western Goldenrod

Carryon Silk Tasse:

Gilia

Cudweed

California Mustard Broom Matchweed

Salt Heilofrope Short-pod Mustard

Henbi:

Common Goldfields

White Levia Peppaweed.

Desert Beauty Evening Snow

Johnston's Honeysuckie California Dandolion

Cleveland's Malacothrix Wild-cocumber

Horehound

Common Pir.sapple-weed Vealch's Slick-leak

Siender Phlox **M**onkoytlower

Small-flower Baby Blue Eyes

Chaperral Broom-rape

Osmadenia terrolla

Pagonia californica

X Pectocarya sp. Phacelia sp. o

Pholisioma membranaceum

× Phyliobothrys sp.

Plantago palagonica Platyslemon californicus

Prunus Illedolia

Relinesquia neomexicana Ribes quercetorum a

Rorripa nasturtium aquaticum

Ross californica Saltugilla australis

Senecio californicus Senecio Recoldus

Sidalcea malvaellore o

Sisymbriam sp. Solidago californica G. 0

Stachys ajugoidas ¢: Stephanomeria sp.

Simplanthus compositis Stylocline gnaphalioides

Ġ Tetradymia comosa ٥ Таукапоситрия вр.

n. Trichostemma parishit Tropidocarpum gracile

t) Uropagous Indievi ø Viola purpurea

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Osmadenia

California Paony Pectocarya Phacelra

White Fiesta Flower

Popocornillower Desert Plantain Cream Cups

Hofly-leaf Cherry Desert Chicary

Oak Gooseberry Water-cress California Rose Southern Gilia

California Butterweed Butterweed

Checker-bloom Tumble Mustard California Goldenrod

Hedge-nettle Wreathplant

Southern Jewelflower . Everlasting Nest-strew

Cotton-thorn Fringepod

Mountain Bluecuris Slender Ooble-pod Silver Puffs

Oak Yellow Violet

Other Flowering Plants:

Angulatha upida.
Craptantha upida.
Craptantha interioria.
Lometrum desucarpum y no otasgenyan.

Lapinus con linua - no coma ? Bec pullement

Rare Wildlife or Rare Plants: 17lants Jack rabbyt 50 PL 65 المخالية والمات 20 nd 02 ρ land plant 230 do plant

ad - Astragature cloud less var. perstaction

Recorder: ANDREW Ster Add'l Person:		Date: 3-29-// GPS Unit: 2
Project: Concentrix Solar Project Map #: / Sur	vey Sxn: /	QCB Protocol Survey #
TBSE (24-hour)Tomp (F1); Wind (avglinas)	wcc	
Stort 1920 644 1-2 W	Ø	gatchy overcust dritzle shower
1130 108°F 2-3 W	T3	
1430 739F 34	5%	
60:1530 754 2-3 N	65%	constructive overness charles stronge
		<u>clear</u> putchy overcust drizzle shower
		clear pelohy overcest drizzle shower
<u> </u>	[clear pelchy crysicasi druzzie sheyer
Habitat On-site (circle): open solls, hilltops, ridges, rock outco		tlay soils, old roads, various nectar sources
MARKET AND THE STATE OF THE STA	Total	Total
Nymphalidae (Brushfooted Butterfiles)	l- ·	Hesperiidae (Skilopers)
Euphydryas editha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcadona (Henne's Checkerspol)	l	Erynnis tristis (Sad Duskywing)
Thosselie leanire (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)		Erynnis brizo (Sieepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus communis(Checkered Skipper)
Phycrodes mylitta (Mylitta Crescent)		Hespona jubio (Jubia Skipper)
Junonia coenia (Common Buckeye)		Polites sabuleti (Sandhill Skloper)
Vanessa annabella (West Coast Lady	1_	Megethymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)		Megalhymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)		
Vanesse virginionsis (Virginia Lady)		Other Butterfiles:
Nymphalis californica (California Tortoiseshell)		PANTIA SO. 5
Danaideo (Milkweed Butterfiles)		Francis So 2
Danaus plexippus (Monarch)		
Danous gilippus (Queen)		
Salyridae (Catyrs)		
Coenonympha californica (Common California Ringlet)		ļ i
Pieridae (Whites, Sulphurs)		
Plens repor (Cabbage White)		
Pontia sisymbni (Spring Waite) Houting Sps. 14		
Pantie beckerii (Beker's White)		
Pontie protodice (Common White)	1	
Anthochan's sara (Sara Orangetip)	10	0 0
Anthocharis cethura (Felder's Orangolip)		V V V V V WVV V
Euchloe hyantis (Desert Pearly Marble), HTT	- Z	
Cohas eurytheme (Orange Sulphur)	. [7]	
Colias harfordii (Harford's Sulphur)		
Nathalis role (Dainty Sulphur)	<u>i</u>	
Papilionidae (Swaliowtalia)		Notes:
Papilio polyxenes (Desert Black Swallowtail)		BUOR.
Papilio curymedon (Pale swaflow(ail)	i	HOWR BISP CAUT WITH
Papilio rutulus(Western Tiger Swallowtail)		
Ricdiniade (Metalmarks)		NOFT WILL LALT 5/10
Apodemia mormo (Benr's Metalmark)	35	
Lycaenidae (Hairstreaks and Blues)		LACSE CAPOU BUSIL KIKT
Celastrina ladon (Spring Azure)		T-000
Leptoles marina(Marine Blue)		Muledon Tikes Romalita about
Brephidium exile (Western Pygmy Blue)	· 	The state of the s
Glaucopsyche lygdamus (Southern Blue/Silvery blue)		Colleman I rave GUET WEN
Hemiergus ceraunus (Edward's Blue)	_	TO THE TOTAL OF THE PARTY OF TH
tcarle acmon (Acmon Blue)	 	LETU HUNT OF WAR BELD.
Philotes sonorensis(Sonoran Blue)		1 - Common to the second of th
Callophrys augustinus (Brown Elfin)		Side - Watches lizard desettens
Callophrys dumetorum (Perplaxing Green Hairstreak)	1 " 747-	Lizard Continue of Con
Strymon melinus (Gray Hairstreak)	·	
Altidos halesus (Great Purple Haustreak)	-	ZMICE THULL CAN A RETURN RAWING
		In War Cout utde allow our
·—————————		

atial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) .ctions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantago palagonica = PP Antirrhinum coulterionum = ACCollinsia concolar = CC

	THE PROPERTY OF THE PROPERTY O	THE COMMISSION CONCORDS TOTAL
i)	Amsinckia menziesii	(Rancher's Fiddleneck)
ų.	Antirrhimum coulterianum	Coulter's Snapdragon
0	Antiphinum nuttallianum	
_	- · · · · · · · · · · · · · · · · · · ·	Nuttell's Shapdragon
n	Asclepias fascicularis	Narrow-leaf Milkweed
Ç4	Boechera sp.	Rock Cress
9	Celandrinia ciliata	Red Maids
0	Calochortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipas	Morning-glory
o	Camissonia sp.	Sun Cup
0	Castilleja oxorta	Paintbrush
٥	Caulanthus heterophyllus	San Diago Jewelflower
ë	Caulanthus simulans	Payson's Caulanthus
6	Ceanothus cuneatus	Buck Brush 7 11
0		
	Ceanathus greggii	(Cup leaf-lias
٥	Coanothus toucodarmia	Chaparral Whitethorn
0	Chaonactis artemisiitolla	White Pincushion
0	Cheeneciis glabriuscula	Yellow Pincushian
1:	Clematis sp.	Clematis
υ	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
0	Coreopsis californica	California Coreopsis
0	Corethrogyne fileginifolia	Common Sand-aster
5	Cryptantha sp.	Cryptantha)
	Cucurbita foetutissime	Calabazilla
9		<u>-</u>
٥	Descurelnia sp.	(Tansy-musland)
9	Dicentra chrysantha	Golden Ear-drops
0	Dichelostemma capitatum	<u>₄Bl</u> ue Dicks
0	Oudleya sp.	Dudley a
o.	Emmenanthe pendulifera	Whispering Bells
o	Eriastrum sp.	Woolly-star
O.	Ericamoria sp.	Goldenbush
o.	Erigeron foliosus	Leafy Daisy
D	Erfodictyon trichocalist	Hairy Yerba Sente
c	Eriogonum fasciculatum	Inland California Buckwheat
6	Епоролит вр.	Buckwheat
0	-	
	Eriophyllum sp.	Long-stem Golden-yarrow
n	Erodium cicutarium*	Red-stem Storksbill
0	Erysismum capitatum	Western Walflower
Ø.	Eschschotria californica	California Poppy
0	Eucrypte chrysanthemifolie	Spotted Hideseed
o	Euthamia occidentalis	Western Goldenrod
Ċ.	Gerrya veatchii	Canyon Silk Yassel
ę.	Gilia sp.	Gilia
0	Gnaphalium	Cudweed
ė.	Guillenia lasiophylla	California Mustard
ō	Gulierrozia sarothrae	Broom Matchweed
ė		
	Heliotropium curassavicum	Sait Heliotrope
"	Hirahfeldia incene	Short-pod Mustard
ü	Lamium emplexicaule	Henbit
0	Losthenia gracilis	Common Goldfields
Q.	Layia glandukosa	Write Cayla
o.	Lepidium sp	Pepperweed
a	Linanthus bellus	Cesert Boauly
6	Linenthus dichotomus	Evening Snow
0	Lonicera subspiceta	Johnston's Honeysuckie
÷	Malacoshrix californica	California Dandelion
0	Melecollutix clevelandii	Cleveland's Matecothrix
0	Marah macrocarpus	Wild-cucumber
0	Marrublum vulgero	Horehound .
0	Matricaria matricarioides*	Common Pineapple-wood
e.	Mentzelie ventchiane	Veatch's Stick-leak
C .	Microsteria gracilis	Stender Phiox
С	Mimutus sp.	Monkeyflower
	** - t	

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nomophila monzeisii

Orobancha bulbasa

o	Osmadenie toncila	Osmadenia
O.	Paconto californica	Catifornia Peony
i.	Pectocarya sp.	Pectocaryo
D	Phacelia sp.	Phacelia
a	Pholistoma membranaceum	White Fiests Flower
υ	Plagiotothrys sp.	Poncornflower
9	Plantago palagonica	Desert Plantain
0	Phrystemon californicus	Cream Cups
o	Prunus ilicitolia	Holfy-leaf Cherry
o	Relinesquie neomoxicana	Desert Chicory
Q.	Ribes querçeforum	Oak Gooseberry
0	Rompa nesturium-equaticum	Water-cress
o.	Rosa californica	California Rose
0	Settugika eustralis	Southern Gli:a
o.	Senecio californicus	California Butterweed
ů.	Senecio flaccidus	Butterweed
o.	Sidaloca melvaeflora	Checker-bloom
1:	Sisymbrium sp.	Tumble Mustard
c	Solidago californias	Catifornia Goldenrod
O.	Stachys ajugoides	Hedge-nettle
U	Stephanomeria sp.	Wreathplant
ņ	Streptanthus campostris	Southern Jawelliower
n	Stylacline gnaphalioides	Everlasting Nest-straw
a	Telradymia comosa	Cotton-thorn
0	Thysanocarpus sp	Frin g epod
0	Trichostemina parishii	Mountain Bluecuris
o.	Tropidocarpum grocule	Slender Dobie-pod
C.	Uropappus lindleyi	Silver Puffs
0	Viola purpurea	Oak Yellow Violet
Q		
9		

Other Flowering Plants:

Rare Wildlife or Rare Plants:

AFALOI: 1 jur. Lowed Lizab

Record	ler: <u>v\û\v\) (</u>	- Walt 190	Add'l Person:		Date	e:	9 3	G	PS Unit :	
Project	: Concentrix So	lar Project_N	Мар#:Sur	vey Sxn:	QCB Prof	ocol Surv	ey#		of	5 .
	TIME (24-hour)	Temp (F*):	l Wind (avgénax)	% CC			Sky	_		
Start	or history	(v8	1 - 3	7	¿'čleār	n webs.				
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I —	200	<u>70</u>	- 1-3			paketny	gyorcast	divide	\$50w01	
├──	2 -10				<u>clear/</u>	patchy	OVERTABLE.	<u> </u>	shower	
					chia:	potetry	nymeast	crossing	shower	
L			[. [clear	patchy	overcost	dnazie	shower	
					cles	patchy	avnicasi	drazik	apower	
End		<u>-</u>		_ -	-					
	On other delicated and	a caille bulldana		G	cker	paictry	avisicas)	ಚಿತ್ರಗಳ	shower	
Habitat	Ou-site (Cucie): ober	п soj⊭s, п⊪юра, 	, nages, rock outce	ba' abi consist o	ay soils, aid roads, v	ranous nec	tar source:	š		Total
Nymph	elidae (Bruehfoote	d Butterfiles)			Hesperiidae (Skip	mers)	·-·			100
	dryas edilha (Quino				Erynnis funeralis		Dusktovine	1		
	diyas chalcadona (I				Erynnis tristis (S			#)		
	alia leanira (Wright's			 -	Erynnis propertie			vino)		
	yne californice (Calif		···	<u> </u>	Eryonis brizo (S)			8/		
	yne gabbii (Gabb's (Pyrgus communi			3		+
	odes myhita (Myhita				Hesperia jubia (J			,		+
	ia coania (Common				Polites sabuleti (-
	ssa annabella (West			—— I ——	Megathymidae (G					
	ssa <i>etalente</i> (Red Ad				Megathymus yu			roper) —		ŀ
	ssa cardui (Painted						· · · · · · ·	40.70		· ·
Vanes	sse virginiensis (V.rg	inte Ledy)		\rightarrow	Other Butterflies:					-
Nymp	haliş catifornica (Ca	lifomia Tortoise	esheli)	—·	E / (585)	S 4.5				1
Denald	ae (Milkwead Butte	rfites)			- ,, , , , , , , , , , , , , , , , , , 	} -				ļ*
Dana	us <i>plexippus</i> (Monan	ch)	—			. —				
Danas	us gwippus (Queen)			_						
Satyrid	se (Satyra)									
	onympha californica		fornia Ringlet)							.
	e (Whites, Sulphur									
	rapao (Cabbage Wi									
	sisymbril (Spring W						_	·		
	<i>bocken</i> ї (Bek er's W	: -:-:				_				
	protodice (Commo				_					
	charis sara (Sara O:			. hs iii	<u> </u>					
	charis celhure (Feld		<u> </u>		<i>p</i> .					
	ce byantis (Desert P			١,	 (¿') 	_				
	eurytheme (Orange			-				_		
	i <i>harfordii</i> (Harford's <i>lis iolo</i> (Dainty Su [*] ph									
	nidae (Swallowtails				· Notes:	-				
	o polyxenes (Desert	•	taul).	·	· MODES.					•
	o ourymodon (Pale s			-	<u> </u>					
	o rutulus(Western Ti		il).	·	 		_			.
	ade (Metalmarks)				· · · · · · · · · · · · · · · · · · ·				. —	
	min marma (Behr's	Metalmark)		N4. 115	(177) "					· · · ·
	idae (Hairstreaks a			7/32 1/31						-
	trina ladon (Spring A									
Lepto	les marina(Marme B	lue)		<u> </u>	<u> </u>					
	idium exile (VVesterr									
	opsyche lygdamus ((Silvery blue)			_			_	
	argus cereunus (Edv									
	acmon (Acmon Blue			[
	es s <i>onoronsis</i> (Sonol									
	xhrys augustinus (Вг			.]						-
	hrys dumotorum (Pe		n Hairstreak)	<u> </u>	INIJE I					<u> </u>
	on molinus (Gray Ha			_	L	_				<u>`</u>
Atlide.	s halesus (Great Pui	rp'e Hairs(reak))			_ `				
				1	I					:

otential Nectaring or Host Plants for Quino Checkerspot Butterfly In Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

—-	Antirchinum coulterianum =	= AC <u>Collinsia concolor</u> = 0
~	"Amsinckia menziesil	Rancher's Fiddleneck
。 آن	Antirrhimum coutterianum	Coulter's Snapdragon
o	Antirthinum nuttallianum	Nuttall's Snapdragon
4	Asclepias fasciculans	Narrow-leaf Milkweed
à	Boechera sp.	Rock Cress
·**	Celendrinia ciliata	Red Maids
0	Calochorius concolor	Golden-bowl Manipose Lily
ö	Calystagia longipus	Moming-glory
o	Camissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
o	Caulanthus heterophylius	San Diego Jewelflower
::	Caulanthus simulans	Payson's Caulanthus
<u>س</u>	Ceanolhus cuneatus	Buck Brush
e (Ceanothus greggii	Cup-leaf-tiled
ς,`	Ceanothus leucodermis	Chaparral Whitethorn
0	Cheonactis artemisiifolia	White Pincushion
e.	Chaenectis globriuscula	Yellow Pingushion
:>	Clematis sp.	Clematis
a	Collinsta concolor	Southorn Chinese Houses
o	Cordylanthus rigidus	Dark-tip Bird's Beak
٥	Coreopsis californica	California Coreopsis
U	Corethrogyna filaginifolia	Common Sand-aster
9-(Cryplantha
n Ì	Cucurbita foetidissima	Celabaziria
Q	Descurainie sp.	Tansy-mustard
, . ,	Dicentra chrysantha	Golden Eandrops
n	Dicheloslemma capitatum	Blue Dicks
0	Dudleya sp.	Dudleya
0	Emmonanthe pendulifera	Whispering Bells
rs	Eriastrum sp.	Woolly-star
ú	Ericameria sp.	Goldenbush .
n	Etigeron faliosus	Leafy Daisy
0	Eriodictyon trichocetyx	Hairy Yerba Sonta
э .	Eriogonum fesciculatum	Inland California Buckwheat
>	Eriogonum sp.	Buckwheat
	Enophyllum sp.	Long-stem Golden-yarrow
ν,	Erodium eleutarium*	Red-stem Storksbill
,	Erysismum capitatum	Western Walflower
, ,	Eschscholzia californica	California Poppy
,	Eucrypte chrysenthermfolin	Spotted Hideseed
	Euthamia occidentalis	Western Go'denrod
×	Garrya vealchii	Canyon Silk Tassel
1	Gilis sp.	Gilia
	Gnaphalium	Cudwaed
)	Guillenia tasiophytta	California Mustard
	Gutierrezia şerpihrae	Broom Matchweed
,	Heliotropium curessavicum	Salt Heliotrope
	Hirshfeldie incone	Short-pod Mustard
	Lamium emplexicaule	Henbil
	l.esthenia gracilis	Common Goldfields
	Layia grandulosa	White Laylo
	Lepidium sp.	Pepperweed
	Linanthus bellus	Desert Beauty
	Linanthus dichotomus	Evening Snow
	Lonicora subspicata	Johnston's Honeyauckie
	Malacuthrix celifornica	California Dandelion
	Melacothrix olevetandit	Cleveland's Malacothrix
	Marah macrocarpus	Wild-cucumber
	Marruhium volgare*	Horehound
	Metricaria matricarioides*	Common Pineapple-weed
	Mentzelia voetchiana	Veatch's Stick-leak
	Microsteris gracilis	Slender Phlox
	Almalas s p.	Monkeyflower
	Vemootiila manzeisii	Small-flower Rahu Rina Evas

Small-flower Baby Blue Eyes

Chapatral Broom-rape

Nemophila manzeisii

Orobanche bulbosa

Otrandonia fanalia	
Osmadenia tenella Paeonia californica	Osmadenia
Pectocorya sp.	California Peony Pedecarya
Phecelie sp.	Phace is
Pholistoma membranaceum	White Flesta Flower
Plagiobothrys ap,	Popcomflower
Plantago patagonico	Desert Plantain
Ptetystemon californicus	Cream Cups
Prunus Ilicifolia	Holly-leaf Cherry
Refinesquia naomexicana	Desert Chicory
Ribes quercetorum	Oak Gooseberry
Rompa nasturtium-equaticum Rose catifornica	Water-cress
Sallugilia australis	California Rose Southern Gilla
Senecio californicus	California Butterweed
Serrecto fleccidus	Butterweed
Sidelces malvuoffore	Checker-bloom
Stsymbrium sp.	Tumble Mustard
Solidago californica	California Goldenrod
Stechys ajugoides	Hedge-nettle
Stephanomena sp.	Wreathplant
Streptanthus campestris	Southern Jewelflower
Stylocline gnaphalicides Tetredymie comosa	Everlasting Nest-straw
Thysanocarpus sp.	Cotton-thorn Fringepod
Trichostomma parishii	Mountain Bicecuris
Tropidocamum gracile	Slender Doble-pod
Uropeppus lindleyi	Silver Puffs
Viola purpuren	Oak Yellow Violet
Other Flowering Plants:	Com Lawrence
Other Flowering Plants: Lamatoum , las year Lugare Francis hardy (excocurs held)	gen de grager ides beblandes
Other Flowering Plants: Lamaform (las years) Lapare Cache Handy (evectorous belig)	gen de grager ides bebleides
Lamatium, lagger Lagger francischer lande Cercocordus belde, Rare Wildlife or Raro Plante:	gem de grager ides bebleides
Lamatium, lagger Lagger rains lands Cercocarous helds Rare Wildlife or Raro Plants:	
Lamatium, lagger Lagger Francischerier Cercocarpus belle Rare Wildlife or Raro Plants: Agbrasign für Jaurglas	
Lamatium, lagger Lagger rains lands Cercocarous helds Rare Wildlife or Raro Plants:	
Lamatium, lagger Lagger Francischerier Cercocarpus belle Rare Wildlife or Raro Plants: Agbrasign für Jaurglas	
Lamatium, lagger Lagger Francischerier Cercocarpus belle Rare Wildlife or Raro Plants: Agbrasign für Jaurglas	
Lamatium, lagger Lagger Francischerier Cercocarpus belle Rare Wildlife or Raro Plants: Agbrasign für Jaurglas	
Lamatium, logge Lamatium, logge Cercocordus bello Cercocordus bello Rare Wildlife or Raro Plants: Ashmagic (un logge) logge AMADOZO (
Lamatium, logge Lamatium, logge Cercocordus bello Cercocordus bello Rare Wildlife or Raro Plants: Ashmagic (un logge) logge AMADOZO (
Lamatium, logge Lamatium, logge Cercocorpus bello, Cercocorpus bello, Rare Wildlife or Raro Planto: Aghrango (ux Jangles AMADO20 1 Coco Vijut Coco Coco	
Lamatium, logge Logge Fisher house (excocordus bello) Rere Wildlife or Raro Plante: Ashrange (up Jourges MANADOZO 1 COCO MANATOZO 1	
Lamatium, logge Logge Fisher house (excocordus bello) Rere Wildlife or Raro Plante: Ashrange (up Jourges MANADOZO 1 COCO MANATOZO 1	
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Rare Wildlife or Raro Plants: Ashracy (1) Journal What Color Color MMRTCIDE DOCT	
Lamatium, luggine Concornas bella. Rere Wildlife or Rano Plante: Ashrango for dourgles AMADOZO I CONO CHOO MARTOJO I CONO MARTOJO MARTOJ	
Rare Wildlife or Raro Plants: Ashracy (1) Journal What Color Color MMRTCIDE DOCT	
Lamatium, luggine Concornas bella. Rere Wildlife or Rano Plante: Ashrango for dourgles AMADOZO I CONO CHOO MARTOJO I CONO MARTOJO MARTOJ	
Lamatium, luggine Concornas bella. Rere Wildlife or Rano Plante: Ashrango for dourgles AMADOZO I CONO CHOO MARTOJO I CONO MARTOJO MARTOJ	
Lamatium, luggine Concornas bella. Rere Wildlife or Rano Plante: Ashrango for dourgles AMADOZO I CONO CHOO MARTOJO I CONO MARTOJO MARTOJ	
Lamatium, luggine Concornas bella. Rere Wildlife or Rano Plante: Ashrango for dourgles AMADOZO I CONO CHOO MARTOJO I CONO MARTOJO MARTOJ	

Recorder: Bonno Hendrick Add'l Person: N	A	Date: 3/29/11 GPS Unit : 14	<u>2</u>
Project: Concentrix Solar Project Map #: 5 Survey Sxr	n: 🔑		<u> </u>
Sum 9100 66° 3.6 7.5 0) }	Sky Clear penthy overcent c Erzzké shower Line penthy overcent drizzka shower	
12:20 7/024/70 0	+	claus paretry evercest drizzla shower	-
3:45 30° 19/23 (\	these policity overcast drizzle shower	
68° 12/55 80	37	clear (partitle overcast drizzin sonwer claur partity (overcast) drizzio sonwer	
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil	crusts, cl		Total
Nymphaildae (Brushfooted Butterfiles)		Hesperiidae (Skippers)	
Euphydryss aditha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)	
Euphydrysis chalcadona (Henne's Checkerspot)		Erynnis tristis (Sad Duskywing)	
Thessalia leenira (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)	
Chlosyne californice (California Patch)		Erynnis brizo (Sleepy Duskeywing) // (ος Ε. ρτορ.)	_3
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus communis(Checkered Skipper)]
Phyciodes myliffa (My.itta Crescent)		Hesperia jubia (Jubia Skipper)	
Junonia coonia (Common Buckeye)		Polites sabuleti (Sandhill Skipper)	
Vanossa annabella (West Coast Lady		Megathymidae (Glant Skippers)	
Vanessa atalanta (Red Admiral)		Megathymus yttocae (Yucca Gient Skipper)	
Venesse cardui (Painted Lady)			
Vanesse virginiensis (Virginia Lady)		Other Butterflies:	
Nymphalis californica (California Tortoiseshell)		Everes amyntula. 1	I - I
Danaldee (Milkwood Butterfiles)		1 a (whetern tailed blue)	1
Danous plexippus (Monarch)		<u> </u>	
Danaus glippus (Queen)		Nectaring on lunine	
Satyridae (Satyra)		Hostolalat XAstragalia	
Coenonymphe californica (Common California Ringlet)		double mearlow	
Pieridae (Whites, Sulphurs)			
Pieris rapae (Cabbage White)		Colortul Moth forange, cream	、ブー
Pontia sisymbril (Spring White)		1 3 dd	1 .
Pontla backerii (Baker's White)		Small cream moth 4111	. 6
Pontia protodice (Common White)		Black Moth w/ large cream go	151
Anthocharis sara (Sara Orengetip)		0)	,
Anthocharis cethura (Falder's Orangetip)		Sulpher Jp.	
Euchice hyentis (Desert Pearly Marble)	30	· · · · · · · · · · · · · · · · · ·	
Colies eurytheme (Orange Sulphur)			
Colias herfordii (Harford's Sulphur)	· · · - ·		
Nathalis lole (Dainty Sulphur)		į	
Papilionidae (Swallowfalls)		Notes:	
Papillo polyxenes (Desert Black Swallowtail)		Cattle - Area is harviel	
Popilio curymedon (Pale swallowtail)		J-50-70 J	
Papilio rutulus(Western Tiger, Swaflowfail)		CORA	
Ricdiniade (Metalmarks)		SCIA Perscat	
Apodemia mormo (Behr's Metalmark)	<u>30 </u>	LASP Wen sp.	
Lycaenidae (Hairstreaks and Blues)		AMOR, MODD, 5, Waleglinan	<u> </u>
Celastrina ladon (Spring Azure)			
Leptoles marina(Marine Blue)		pocket gophers, ground St	برسهروا
Brophidium exite (Western Pygmy Blue)		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Glaucopsyche tygdamus (Southern Blue/Silvery blue)		*/_OSH Bh 150] (See Next)	$\rho Q_n \perp$
Hemiargus ceraunus (Edward's Blue)		Bh 1502	<u> </u>
(Carie acmon (Acmon Blue)	_1	Honeyoea, Elle, gnats	
Philotes sortorensis(Sonoran Blue)		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Callophrys augustinus (Brown Elfin)		MUCH Uta Standfunano	ا بہا
Callophrys dumotorum (Perplexing Green Hairstreak)	4	CARU Scaloperis occiden	talis
Strymon thelinus (Grey Hairstreak)	•	1345H_ Abundant Lizard	<u> </u>
Attides halesus (Great Purple Hairstreak)		VESP OCWA Nemadopewring	<u>',</u>]
		F/4 CH3P	·
		WEN LOTH?	
		COTO	
		JI 10	

antial <u>Nectaring or Host Plants for Quino Checkerspot Butterfly</u> in Boulevard, California (Concentrix/Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plontago patagonica = PP

	Antirrhinum coulterianum =	AC Collinsia concolor =
	Amsinckia menziasii	Rancher's Fiddleneck
Š	Antirchimum coullerianum	Coulter's Snapdragon
Ċ	Antirchinum nuttelllenum	
u U	Asolepias fascicularis	Nuttali's Snapdragon Narrow-leaf M:lkweed
G	Воесната зр.	Rock Cress
::	Colandrinia ciliata	Red Maids
0	Calochortus concelor	Golden-bowl Mariposa Lily
0	Calystagia longipes	
0	Camissonie sp.	Moming-glory Sun Cup
ď	Castilloja exerta	Paintibrush
6	Caulanthus heterophyllus	
ı:	Caulanthus simulans	San Diego Jewelflower Payson's Caulanthus
41	Ceanothus cureatus	Buck Brush
×	Ceanothus greggii	Cup-leaf-lilac
'n	Ceenothus leucodennis	Chaparral Whitelhom
:-	Citaenactis erlomisiitotia	White Pincushion
Ö	Cheenectis glebriuscula	Yellow Pingushlon
o,	Clematis sp.	Clematis
o	Collinais concolor	Southern Chinese Houses
C.	Cordylanthus rigidus	Dark-tip Bird's Seak
п	Coreopsis californica	California Coreopsis
0	Corethrogyne fileginifolia	Common Sand-aster
×	Cryptantha sp.	Cryptantha
o	Cucurhita foetidissima	Calabazilla
o	Descureinia sp.	Tansy-mustard
Ç.	Dicentra chrysantha	Golden Ear-drops
o	Dichelostemma capitatum	Blue Dicks
С	Dudleya sp.	Dudleya
п	Emmenanthe pendulilem	Whispering Bells
y .	Eriastrum sp.	Woolly-star
×	Ericameria sp.	Goldenbush
0	Erigoron foliosus	Lealy Daisy
a	Eriodickyon krichocalyx	Hairy Yerba Şanta
0	Eriogonum fasciculatum	Inland California Buckwheat
<u>ک</u> ور	Erlogonum sp.	Buckwheat
4	Eriaphyllum sp	Long-stern Golden-yarrow
	Erodium cicutarium*	Red-stem Storksbill
·	Erysismum capitatum	Western Wallflower
Κ.	Eschscholzie celifornice	California Poppy
0	Evorypta chrysanthomitolia Euthamia occidentalis	Spotted Hideseed
0	Garryo veelchii	Western Goldenrod
i)	Gilia sp.	Canyon Silk Tasset Gilia
	Gnaphelium	Gudweed
,	Guillenia lasiophylla	California Mustard
'n	Gutierrozia sarolhrae	Broom Matchweed
,	Heliotropium curassavicum	Salt Heliotropa
,	Hirshfoldie incana	Short-poo Musterd
;	Lamium emplexicaule	Henbit
٤	Lasthenia gracilis	Common Goldfields
7	Layia glandulosa	White Layia
,	Lopidium sp.	Pepperweed
1	Linenthus bellus	Desert Beauty
١.	Linanthus dichotomus	Evening Snow
>	Lonicere subspicata	Johnston's Honeysuckie
*	Malacothrix californica	California Dandelion
Ļ	Malacottnix clevelandii	Cleveland's Malacothrix
;	Mareh macrocarpus	Wid-augumber
,	Marrubium vulgare*	Harehaund .
:	Matricaria metricarioidos*	Common Pineapple-weed
)	Mentzelia vealchiena	Veatch's Stick-leak
	Address and the control of the contr	

Slander Phlox

Monkeyficwar

Small-flower Bapy Blue Eyes

Chaparral Broom-rape

Microsteris gracilis

Nemophila menzeisil

Orobanché bulbosa

Mimulus sp.

0	Osmadenia tenella	Osmadenia
0	Paeonia californica	California Peony
0	Pedocarya sp.	Pectocarva
×	Phacelia sp.	Phacelia
ୃ	Pholistoma membranacoum	White Fiesta Flower
ú	Plagiobothrys sp.	Popografiower
Ů.	Plantago patagonica	Descrit Plantain
ı	Platystemon californicus	Cream Cups
ii	Prunus ilicifolia	Holly-leaf Cherry
	Rafinosquia noomexicana	Desert Chicory
0	Ribes quercetorum	Oak Gooseberry
0	Rompe nesturium aqueticum	Water-cress
c.	Rosa californica	California Rose
o	Seltunitia australia	Soutem Glia
1:	Sanedio delifornicus	California Butlerweed
٠.	Senecio flaccidus	Bullerweed
٥	Sidalces malvasRors	Checker-bloom
×	Sisymbrium sp.	Tumble Mustard
ୃ	Solidago californica	
ö	Stachys ajupoides	California Goldenrod
0	Stophanomeria sp.	Hedge-netile
Ö	Stroplanthus campestris	Wreathplant
0	Styloclino gnaphalioides	Southern Jewelflower
 o	Tetradymia comosa	Everlasting Nest-straw
31	Thysanocarpus sp.	Cotton-thorn
9	Trichosternma perishil	Fringepod
υ.		Mountain Bluecurls
	Tropidocarpum gracile	Slender Dobie pod
0	Uropeppus lindleyi	Silver Puffs
0	Viola purpurea	Oak Yezow Viole:
0		
e a	Other Classes - Oleman	
t)	Other Flowering Plants:	

Rare Wildlife or Rare Plants:

Bhisol Loggerhead Shrike Carried nest material. Then perched with a lizard hanging out of its bill (feat & body of lizard). Went into bush Astropalis douglasii Did not GPS Vocations. Bh 150Z - 205H perchal on oak

${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey-Field\ Data\ Sheet}$

Recorder: b A		_Add'l Person:	nore	Date: 02/20 / 11 GPS Unit 6	
Project: Concentrix Sol	ar Project IN		የተባ ነ WesT vey Sxn: ብቻቃይ	of females of of	5 .
TLY.E (24-haur)	Temp (F*):	Wind (evglines)	% CC	Skry	
Start		i.	į	polithy overload drizzle shower	
084Q	64.2	1.5/20	5	Geg paraty everces: dilude shows:	']
0440	67.7	28/25	2		—·
1040	· 7 /	4.3/55			
(140	989		2	GREE parchy oversas dayste shows:	
	11- 1		2	Geat politing overcast deside shows.	
1240	72.	10.4/[5.]	2	GREAT DESTROY CONTRACT CRIZING STOWNS	
End 1330	12.0	4.3 18.4	2	(DOY prestry revolvant drazile attendor	
Habitat On-site (circle open	soils hilltons	tigges rack outcre	opa. soil crusts, i Total	clay soils, old roads, various nectar sources	 Total
Nymphalidae (Brushfooted	Butterflies)			Hesperlidae (Skippers)	<u> </u>
Euphydryas edilha (Quino				Erynnis funeralis (Funereal Duskywing)	<u> </u>
Euphydryas chelcedona (H		erspot)	:	Erynnis tristis (Sad Duskywing)	
Thesselia leanire (Wright's				Erynnis propertius (Propertius Duskywing)	<u> </u>
Chlosyne californica (Califo				Erynnis brizo (Sleepy Duskeywing)	<u>: 2</u>
Chlosyne gabbii (Gabb's C		<u> </u>		Pyrgus communis(Checkered Skipper)	: .
Phyciodes mylitta (Mylitta (— — —	Hesperia jubia (Jubia Skipper)	;
Junonia coenia (Common I				Polites sabulati (Sandhill Skipper)	1
Vanessa annatiella (West I				Megathymidae (Glant Skippers)	↓
Vanessa atalanta (Red Adi			i	Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardur (Painted L					
Vanessa virginiensis (Virgii				Other Butterfiles:	1
Mymphatis californica (Cal		shell}			\perp
Danaidae (Milkweed Butter				· · · · · · · · · · · · · · · · · · ·	\perp
Danaus plexippus (Monarc	<u>h)</u>			· · · · · · · · · · · · · · · · · · ·	لــــــــا
Danaus gilippus (Queen)				•	<u> </u>
Satyridae (Satyrs)	0		- 	 	! '
Coenanympha californica (omia Ringleti			: T
Pieridae (Whites, Sulphurs			<u>i</u>		
Pieris rapae (Cabbage Whi Pontia sisymbrii (Spring Wi				<u> </u>	
Pontia beckenii (Beker's Wi					
Pontia protodice (Common					1
Anthocharis sara (Sara Ora			- 7 -		
Anthocharis cethura (Felde		11.1	- <u> </u>		ł
Euchige hyantis (Desert Pa			3	ner. n.e.	
Çokaş eurythama (Orange		11		 	\vdash
Colias harfordii (Harford's S			- 1		
Nathalis iole (Dainty Sulph)					 · · · · · · · · · · · · · · · · · · ·
Papillonidae (Swallowtails)				. Notes:	
Papilio polyzenes (Desert E		ail}		LOVER WESTERN FERCESTERNA	
Papilio eurymedon (Pele sv		-		RITHA Side-biotched"	<u> </u>
Papilio rululus(Western Tig		·	 -	MODO WEWAT	
Riodinfade (Metalmarks)			-	CPTO CATH	: · · i
Apodemia momio (Bahr's N	Metalmark) (W IT	7	CALT	
Lycaenidae (Hairstreaks an		····		COHOMBUIL	
Celastrina ladori (Spring Az				WEST	
Loptotos marina(Marine Blu			1	HOUA -BCHA OI	
Brophidium exile (Western	Pygmy Blue)			SAPH	
Glaucopsyche lygdamus (S		Silvery blue)		DEJV]
Hemiargus ceraunus (Edwa				OAT	
lçaria acmon (Acmon Blue)			1	BJackindbut BCBJOI	!
Philotes somersis(Sonore				AUU	
Callophrys augustious (Bro			!	CATOLO	
Callophrys dumetorum (Per		Hairstreak)	2	5 gilliagtor lizard	
Strymon melinus (Gray Hai				LAKP	, 7
Atlides helesus (Great Purp	le Hairstreak)			Will	<u>Г</u>
				SD Wast In orned 102000 - BCHLOL	

itential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterionum =	= AC Collinsia concolor = CC
√	Amsinckia menziesii	Rancher's Fidolaneck
ų.	Antirrhimum coulterianum	Coulter's Snapdragon
G	Antintúnum nuttellienum	Nuttall's Snapdragon
n	Asclepias fascicularis	Narrow-leaf Milkweed
c	Boechera so.	Rock Cress
į,	Catandrinia ciliata	Red Maids
9	Calechortus concelor	Golden-bowl Mariposa Lily
:1	Catystegia kongipes	Morning-glory
٥	Camiasonia sp.	Sun Cup
o	Castilioja exerta	Paintbrush
0	Caulanthus hererophyllus	San Diego Jewelflower
Ø.	Caulanthus simulans	Payson's Caulanthus
9	Ceanothus cuneatus	Buck Brush
0	Ceanothus graggii	Cup-feaf-lilac
0	Ceanothus feucodermis	Chaparral Whitethorn
	Chaenaclis artemisiifolia	While Pincushion
0	Chaenactis glabriuscula Clamatis sp.	Yellow Pincushion Clematis
c c	Collinsia concolor	Southern Chinese Houses
 G	Cordylanthus rigidus	Dark-tip Bird's Beak
Ç.	Coreopsis californica	California Coreopsis
2:	Corethrogyne filaginifolia	Common Sand-aster
Ü	Cryplantha sp.	Cryptantha
Ö	Cucurhita faetidissima	Calabazilla
	Descureinie ap.	Tansy-mustard
٥	Dicentra chrysantha	Golden Ear-drops
0	Dichelostemma capitatum	Blue Dicks
¢.	Oudleye sp.	Dudleya
o	Emmenantho pendulifora	Whispering Bells
0	Eriastrum sp.	Woolly-star
5	Ericameria sp.	Goldenbush
0	Erigeron foliosus	Leafy Daisy
0	Enodictyon Inchocalyx	Hairy Yerba Santa
0	Eriogonum fasciculatum	Inland California Buckwheat
e .	Eriogonum sp.	Buckwheat
٠,	Eriophyllum sp. Erodium cicularium"	Long-stern Golden-yatrow Red-stern Storksbill
	Erysismum capitatum	Western Wallflower
\	Eschachatrie catifornice	California Poppy
•	Eucrypta chrysanthemilolia	Spotted Hideseed
٥	Eulhamia occidentatis	Western Goldenrod
	Garrya veatchii	Canyon Sifk Tassel
Li .	Gilia sp	Gilla
¢:	Gnaphalium	Cudweed
0	Guillenia lealophylle	California Mustard
÷	Gulierrezia sarothrae	Broom Matchweed
a	Heliotropium curessavicum	Sall Heliotrope
V	Hirshfoldia incana	Short-pod Mustard
۰,	Lamium amplexicaula	Hentál
	Lastheria gracilis	Common Goldfields
V	Layie glandulosa	White Leyia
¢	Lepidium sp.	Peppenysed
0	Linanthus bellus	Desert Beauty
с -	Linanthus dichotomus Lonicera subspicata	Evening Snow Johnston's Honeysuckle
0 C	Malacothnix celifornica	California Dandelion
0	Malacothrix clevelandii	Cleveland's Malacothrix
n	Mereh mecrocerpus	Wild-curcumber
 D	Manubium vulgare*	Florehound
r:	Matricana matricariordes	Common Pineapple-weed
e	Montzelle veelchiena	Veatch's Stick-leak
n	Microsteris gracilis	Stender Phlox
9	Mimulus sp.	Monkeyflower
n	Nemophila menzeisii	Small-flower Baby Blue Eyes
	Ombasche fedbace	Changest Broom-1900

г.	Osmadenia tenella	Osmadenia
o	Pasonia californica	California Peony
٥	Pedlocarya sp.	Pedocarya
œ.	Phacetia sp.	Phacelia
c	Pholistoma membranaceum	White Fiesta Flower
v	Płagiobothrys sp.	Popcoroflower
ŏ	Plantago patagonica	Desert Plantain
o	Platyclemon celifornicus	Cream Cups
er.	Prunus ilicifolia	Holly-leaf Cherry
o	Rafinesquia neomexicana	Desert Chicory
o	Ribes quercetorum	Oax Gooseberry
ð	Romps nesturium-aquaticum	Water-cress
·)	Rosa californica	California Rose
o	Sattugilia australis	Southern Gilia
ℯ	Senecio californicus	California Sutterweed
0	Senecio flaccidus	Butterweed
Ċ.	Sidelcea malvaeflore	Checker-bloom
G	Şişymbrium sp.	Tumble Mustard
0	Solidago californica	California Goldenrod
0	Stachys ajuguides	Hedge-nettle
0	Stephanomeria sp.	Wreathplant
п	Streptenthus composins	Southern Jewelflower
::	Stylocline gnaphalioides	Everlasting Nest-straw
0	Tetradymia comosa	Cotton-thorn
٥	Thysanocarpus sp.	Fringepod
a	Trichostermna panshri	Mountain Bluecuris
္	Tropidocerpum gracile	Slender Dobie-pod
<1	Uropappus kindleyi	Silver Pults
o.	Viola purpurea	Qak Yellow Violet

Other Flowering Plants: LOM ANUM daily car pum

Rare Wildlife or Rare Plants: press out yaqe

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Chaparral Broom-rape

Orobanche bulbose

Recorder: BUAAdd'l Person:	Date: 3/30/11 GPS Unit: 6
Project: Concentrix Solar Project Map #: 2 Survey Sxn: 2	(th Q/) of NrkMaP QCB Protocol Survey # of of
Traject. Congentity Coat Traject Hisb#. 2 Carvey Crit. 21	4 GOD 1 10 G
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	clear potchy overtasi dhazie shower
End 1605	cice: patchy evertest drawle shower
Habitat On-site (circle): open soits, hilltops, ridges, rock outcrops, <u>soit crust</u> Tot	
Nymphalidae (Brushfooted Butterfiles)	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	Erynnis funeralis (Funeraal Duskyvong) {
Euphydryas chalcadona (Henne's Checkerspot)	Erynnis (ristis (Sad Duskywing)
Thessalia leanira (Winght's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	Pyrgus communis(Checkered Skipper)
Phyciodes mylitte (Mylitta Crescent)	Hesperia judia (Judia Skipper)
Junonia coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady	Megathymidae (Glant Skippers)
Vanessa atalanta (Red Admiral) Vanessa cardul (Painted Lady)	Megathymus yuccae (Yucca Giant Skipper)
Vanessa virginiensis (Virginia Lady)	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	
Danvidae (Milkweed Butterflies)	— ··· · · · · · · · · ·-
Danaus plaxippus (Monarch)	
Danaus gilippus (Queen)	
Satyridae (Satyrs)	
Coenonympha californica (Common California Ringlet)	4
	<u> </u>
Pleridae (Whites, Sulphurs)	- i :
Piens rapae (Cabbage White)	· · · · · · · · · · · · · · · · · · ·
Piens rapae (Cabbage White) Pontia sisymbrii (Spring White)	· · · · · · · · · · · · · · · · · · ·
Piens rapae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckeni (Beker's White)	•
Piens rapae (Cabbage White) Pontie sisymbrii (Spring White) Pontie beckeni (Beker's Write) Pontie profodice (Common White)	·
Piens rapae (Cabbage White) Pontie sisymbrii (Spring White) Pontie beckeni (Beker's White) Pontie protodice (Common White) Anthocharis sara (Sara Orangatip)	•
Piens rapae (Cabbage White) Pontie sisymbri (Spring White) Pontie beckeni (Beker's White) Pontie prolodice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip)	•
Piens rapae (Cabbage White) Pontie sisymbri (Spring White) Pontie beckeni (Beker's White) Pontie protodice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip) Euchloe hyantis (Desen Pearly Marble)	·
Piens rapae (Cabbage White) Pontia sisymbri (Spring White) Pontia beckeni (Beker's White) Pontia protodice (Common White) Anthocharis sara (Sara Orangatip) Anthocharis cethura (Felder's Orangatip) Euchice hyantis (Desen Pearly Marble) Cotias ourythomo (Orange Sulphur)	•
Piens rapae (Cabbage White) Pontia sisymbri (Spring White) Pontia beckeni (Beker's White) Pontia protodice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip) Euchice hyantis (Desen Peorly Marble) Cotias ourythomo (Orange Sulphur) Coties harfordii (Harford's Sulphur)	
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:tians:

Orobenche bulbosa

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

-t:	Amsintkie menziesii	Rancher's Fiddleneck	1 -	Osmadenia lenella	Osmadenia
1. u	Antirrhimum coulterianum	Coulter's Snapdragon	,	Paeonia californica	California Peony
c	Antimhinum nullallienum	Nuttail's Snapdragon	1		Poctocarya
	Asclepias fascicularis	Narrow-leaf Milkweed	٠,	Paciocarya sp. Phacelia sp.	Phacel:a
٥	Boechera sp.	Rock Cress		Pnolistoma membranaceum	White Fiesta Flower
٥	Calandrima ciliata	Red Maids	0		Popoomflower
n	Calachortus concolor		0	Plagiobothrys so.	•
0		Golden-bowl Mariposa Lily	٧	Plantago patagonica	Desert Plantain
9	Calystagia kongipes	Morning-glory Sun Cup	0	Platystemon californicus	Cream Cops
9	Camiesonia sp.		۰	Prunus ilicifatia	Holly-leaf Cherry
0	Castilieje exerte	Paintbrush	٥	Rafinasquia neomexicana	Desert Chicory
a	Caulenthus heterophyllus	San Diego Jewelflower		Ribes quercelorum	Oak Goosebarry
c.	Caulanthus simulans	Payson's Caulanthus	0	Rompa nasturtium-aquaticum	Water-cress
0	Ceanothus cureatus	Buck Brush	ר ו	Rosa californica	Gatifornia Rose
o	Ceanothus greggir	Cup-leaf-lilac	۰ ا	Settugika eustralis	Southern Gitia
ō	Caanothus leuco dermis	Chaparral Whitethorn	۰ ا	Senecio californicus	California Butterweed
0	Chaenactis artemisiifolia	White Pincushion	0	Senecio flaccidus	Butterweed
0	Chaenactis glabriuscula	Yellow Pincushion	0	Sidalcee malveellore	Checker-bloom
O	Clematis sp	Clemátis	0	Sisymbrium sp.	Tumble Musterd
0	Collinsia concolor	Southern Chinese Houses	0	Solidago californica	California Goldenrod
2	Cordylanthus rigidus	Dark-tip Bird's Beak	G	Stachys ajugoides	Hedge-nettle
o.	Coreopsis celifornica	California Coreopsis	- 6	Stephanomeria sp.	Wreathplant
\mathbf{o}	Corethrogyne filaginifolia	Common Sand-aster	2	Streptamhus campestris	Southern Jewelflower
0	Cryptonina sp.	Cryptantha		Stylocline gnaphalioides	Everlesting Nest-strew
c	Cucurbita foetidissima	Calabazille		Tetradymia comosa	Cotton-thosa
o	Descureima sp.	Tansy-mustard	د ا	Thysanocarpus sp.	Fringepod
c	Dicentra chrysantha	Golden Ear-drops	0	Trichostemma parishri	Mountain Bluecurls
ø	Dichelostemma capitetum	Blue Dicks		Tropidocarpum gracile	Slender Dob:e-pod
c	Dudleya sp.	Oudleya	1 6	Uropeppus lindleyi	Silver Puffs
	Emmenanine pendulifera	Whispering Bells	1 6	Viola purpuree	Oak Yellow Violet
3	Eriastrum sp	Woolly-star		riora parparoti	5511 7 511 51 51 51 51 51 51 51 51 51 51 51 51
ÿ	Ericameria sp.	Goldenbush			
ā	Erigaron foliosus	Leafy Daisy	"	Other Flowering Plants:	
71	Eriodictyon trichocalyx	Hairy Yerba Santa	- 6	Cuter i lonelling i lents.	
9	Eriogonum lasciculatum	Inland California Buckwheat	, ,		
9	Exiogonum sp.	Buckwheat	, ,		
0	Eriophyllum sp.	Long-stem Golden-yarrow	,		
ā	Erodium cicularium*	Red-stem Storkabil:	1		
0	Ervsismum capitatum	Western Waltflower	2		
	Eschscholzia californica	California Poppy	0		
0	Eucrypte chrysanthemilalia	Spotted Hidesced	9		
o.	Euitiamia occidentalis	Western Goldenrod	. 0	Rare Wildlife or Rare Plants:	-
	Gerrya veatchi:	Canyon Silk Tassel	2	Rare Mildrite of Rare Plants:	
0	Garrya veatche Gilia sp.	Gilia	9		
	Gilia sp. Gnephalium		С		
ن	- '-	Cudweed California Mustard	- 6		
0	Guillenia lasiophylla	Broom Matchweed	٥		
0	Gutierrozia sarothrae		ە ا		
C	Heliotropium curassavicum	Saft Heliotrope	3		
G	Hirshfeldia incana	Short-pod Mustard	٥		
0	Lamium emplexicaute	Henbit			
0	Lasthania gracilis	Common Goldfields	0		
C.	Layia glandulosa	White Leyia	15		
5	Lepidium sp.	Pepperweed	- 5		
ů,	Linanthus belius	Desert Beauty	0		
0	Linanthus dichotomus	Evening Show	0		
٥	Lonicers subspicete	Johnston's Honeysuckie	0		
43	Matacollurix californica	California Dandetlon	5		
0	Malacothrix clavelendii	Cleveland's Matacothrix	5		
σ	Marah macrocarpus	Wild-cucumber	٠.		
2	Marrubium vulgare*	Horehound	1 6		
э	Matricaria matricariordes*	Common Pineapple-weed	6		
2	Mentzelia veatchiana	Veatch's Stick-leak			
0	Microsteris gracilis	Slender Phlox			
o	Mimulus sp.	Monkeyflower	0		c
o.	Nemophila menzeisir	\$malt-flower Baby Blue Eyes	-		
_	Omboorko hulbata	Chanarral Broom-race	1		

Chaparral Broom-rape

Recorder: Bonnie Hand Litt SAdd'l Person: Bar. Project: Concentrix Solar Project Map #: H Survey So	<u>bca (</u> a	2/antos Date: 3/30/11 GPS Unit: 2
Project: Concentrix Solar Project Map #: # Survey So	c / թզջ m: _5 ₋₁	of 5 of 5 of 5
TIME (24-hour) Temp (F*): Wind (avg/max) %	or:	Shy
sun <u>9:.50 </u>	590	<u>vieus</u> pricity overcast drugge shower
10:00 69.77.1771.4 3	70	clinic patchy prejoust double shower
1-12-30 - 93 / 4 6/24 7	90	
1 30 73.2 6 4 / 123 5	78	
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2:30 75.8!3.2/6.0	2014	clear (pacing) evercasi diszle shower
End H:00 75,21312.6 a	0 %	
Habitat On-site (circle): open soils nilltops, rudges) rock outcrops (so	il crusty, c Total	ley soils old roads verious necter sources
Nymphalidae (Brushfooted Butterfiles)	ТОТЭТ	Hesperiidae (Skippers)
Euchydryes editha (Quino Checkerspot)	 - ··· -	Erynnis funeralis (Funereal Duskywing)
Euphydryes chelcedone (Henne's Checkerspot)	 	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Winght's Checkerspot)		Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)		Etynnis brizo (Sicepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	 	Pyrgus communis(Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	 	Hespena jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	 	Polites sabulati (Sandhill Skipper)
Vanessa annabella (West Coast Lady		Megathymidae (Glant Skippers)
Venessa atalente (Red Admiral)		Megathymus yuccae (Yucca Glant Skipper)
Venossa cardui (Painted Lady)		<u> </u>
Vanessa virginlensis (Virginia Lady)		Other Butterfiles:
Nymphatis californica (California Torto seshall)	· ·	Dustaina so
Danaidaa (Milkwood Butterfiles)		Sulpher sol II 2
Danaus plexippus (Monarch)	-	Whitee 17
Danaus gilippus (Queen)	-:-	Protective taning on Last nema
Satyridae (Satyrs)		Black + white plater 1 15 - 16
Coenonympha catifornica (Common California Ringlet)		1/ 1000 10 5 ey 1 3 Mata
Pleridae (Whites, Sulphurs)		(* * * * * * * * * * * * * * * * * * *
Pieris rapae (Cabbage White)		· · · · ·
Pontla sisymbrii (Spring White)		
Pontia beckeni (Beker's White)		
Pontia protodice (Common White) []	ユ	
Anthocheris sere (Sara Orangetip)	6	
Anthochens cethura (Felder's Orangetip)	<u> </u>	
Euchice hyantis (Oesert Pearly Marble)	<u>ئېت :</u>	
Collas ourythome (Orange Sulphur)		
Colles harfordii (Harford's Sulphur)	!	<u> </u>
Natholis icle (Dainty Suiphur)	<u> </u>	
Papilionidae (Swallowtails)	<u> </u>	Notes:
Pepilio polyxones (Desert Black Swallowtail)		GL, CLOW, BSS, WETMEROLOW, WILCHP
Pepilio eurymedon (Pale svrallowtari)		1
Pepilio rutulus(Western Tiger Swallov/tail)	1	(CARA, WEME, KTHA, CORA, L
Riodiniade (Metalmarks)		-B ISK NEEL / WSS1, KRWAL
Apodemia mormo (Sehr's Metalmark)	1,2-	SCDAY BEITH, BUSH, BRID, IEGO
Lycaenidae (Hairstreaks and Blues)	!	berning in sid onk + res
Celastrina ladon (Spring Azure) Leptoles manina(Marine Blue)	 	<u> </u>
Brephklium exile (Western Pygmy Blue)	<u> </u>	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Glaucopsyche (ygdamus (Southern Blue/Silvery blue)	· -	Marked Sanceline Course because
Homiorgus ceraunus (Edward's Biue)	<u> </u>	1-5-QUESIDE NORSET DOLLINGARY,
Iceria acmon (Acmon B'ue)	 	but Boundary follows fence in
Philotes sonorensis(Sonoran Blue)	 	ctrus assasi
Callophrys augustinus (Brown Elfin)		trice and converse of the manufacture
"ophrys dumetorum (Perplexing Green Hairstreak)	 , ,,	The seet, Colorby, Sylvand, Nest les
n melinus (Gray Havistreak)	 4 : -	: bleens auf. * Testo!
'9sus (Great Purple Hairsfreak)	 	·
	 	i ~-— — — - — — — — — — — — — — — — — — —
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Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Mimulus sp. Nemonhila menzeisii

Orobanche bulbosa

Recorder: Erin Birgnor Add'l Person:	Dete: <u>March 30, 11</u> GPS Unit :	
Project: Concentrix Solar Project Map #: Survey Sx	n: QCB Protocol Survey # of	5
TIME (24-likeur) Tomp (F*): Villed (avg/mpx) % (CC Sky	
siec 9:20 6:3 1/5/1-2 1/5		
[12 17 2 1 0		
10 10 10 10 10 10 10 10 10 10 10 10 10 1	dear galichy overcasi dezele enewer	
[. Clear phichy pharces! drizzle shower	
2836 73 8-8	close paiding overcast dilacia shower	
in the second		
End		1
Habitat On-site (circle): open soils, hilliops, ridges, rock outcrops, soil	3161-31	T-4-1
Nymphalidae (Brushfooted Butterfiles)	Hesperiidae (Skippers)	Total
Euphydryos editha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcodona (Hanne's Checkerspot)	Erynnis tristis (Sad Duskywing)	T
Thessalia loanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)	-}
Chlosyne celifornice (California Patch)	Erynnis briza (Sleepy Duskeywing)	
Chlosyne gabhii (Gabb's Checkerspot)	Pyrgus communis(Checkered Skipper)	
Phyciodes mylitle (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)	
Junania coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)	
Vanessa ennebelle (West Coast Lady	Megathymidae (Glant Skippers)	
Vanessa atelente (Red Admirel)	Mogathymus yuccae (Yucca Giant Skipper)	
Vanesso cardui (Painted Lady)		
Vanessa virginiensis (Virginia Lady)	Other Butterflies:	
Nympholis californica (California Tortoiseshell)		
Danaidae (Milkweed Butterfiles)	Math	- 1
Denaus plexippus (Monarch)	•	
Danaus gilippus (Queen)	Drastavia tejonica 11	-3-
Satyridae (Satyrs)		
	·	
Cognonympha catifornica (Common California Ringlet)	·	. 3
Coerionympha californica (Common California Ringlet) Pleridae (Whites, Sulphurs)	White sq. III	3
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Coenonympha californica (Common California Ringlet) Pleridae (Whites, Sulphurs) Pieris rapes (Cabbage White) Pontia sisymbrii (Spring Woite)	·	<u></u>
Connonympha californica (Common California Ringlet) Pleridae (Whites, Sulphurs) Pleris rapee (Cabbage White) Pontia sisymbrii (Spring White) Pontia backerii (Bekar's White)	·	<u>3</u> ————————————————————————————————————
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Ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar).

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Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CCCordylonthus rigidus = CR Plantago patagonica = PP

Amsinckla menzlesil Antirrhimum coulterianum Antinhinum nuttellianum Asclepias tasciculeris Boechera sp. Rock Cress Calendrinia ciliato Red Maids Calochortus concolor Calystogia longipes Moming-glory Camissonia ap. Sun Cup Castilleja exerta Paintbrush ÷ Caulanthus heterophyllus Caulanthus simulans Ceanothus cuneatus Buck Brush Ceanothus greggii Cup-leaf-Plac Ceanothus leucodermis Chaenactis artemisidalia White Pincuships Chaenactis glabnuscula Yellow Pingushion Clematis sp. Ciematis Collinsia concolor Cordylanthus rigidus Dark-tip Bird's Beak Coreopsis californica California Coreopsis Corothrogyne fileginifolia Common Send-aster Cryptantha ao. Cryptantha Cocurbita fostidissima Calabazilla Descurainia sp. Tanay-mustard ø Dicentra chrysantha Golden Car-drops Dichelosiomma capitatum Blue Dicks Dudleya sp. Dudloya Emmenentho pendulifera Whispering Balls Eriastrum sp. Woolly-star Ericamoria sp. Goldenbush Erigeron fatiosus Loafy Daisy Effectivity on trichocatys: Hairy Yerba Sante Eriogonum fasciculatum Eriogonum sp., **Suckwheat** Eriophyllum sp. Erodium eleutarium* Red-stem Storkshill Erysismum capitatum Western Wallflower Ġ. Eschschotzia californica California Poppy Eucrypta chrysanthemifolia ø Spotted Hideseed Euthamia occidentalis Western Goldenrod o Garrya veotchii Canyon Silk Taasel ń Gilia ap. Gilia Gnaphalium. Curdweed Guillenia lasiophylle California Mustard Gutierrozia sarothrao Broom Matchweed Heliotropium curessavicum Salt Heliotrope Hirshfeldla incena Short-pod Mustard Lamium amplaxicaule Henbit Lasthenia gracilis Common Goldfields Layia glandulosa White Layia Lepidium sp.

Linanthus bettus

O

Linanthus dichotomus

Melacothrix catifornica

Malacolitrix clevelendii

Matricaria matricarioldas*

Marah macrocarpus

Marnthium vulgere"

Mentzelia vealchiana

Microsteris gracilis:

Nomophila menzcisi)

Orobanche bulbosa

Mimulus sp.

Lonicera subspicata

Rancher's Fidulehack Coulter's Snapdragon Nuttail's Snapdragon Narrow-leaf Milkweed Golden-bowt Meriposa Lily San Diego Jewelflower Payson's Caulanthus Chaparral Whitethorn Southern Chineso Houses -Inland California Buckwheat Cong-stem Golden-yerrow Pepperwood Desert Beauty Evening Snow Johnston's Honeyegckie California Dandelion Cleveland's Malacothrix Wild-cucumder Horehound Common Pineapple-wood Veatch's Stick-leak Slender Palox Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Osmađenia tenejja Osmadenia 0 Pasonia californica California Peony Peciocerya sp. Ċ. Pectocarya n Phacelia sp. Phacelia Pholistoma membranaceum White Flesta Flower Plagiobothnys sp. Popcomflower Plantago patagonica Oeseri Plantain o Platystemon californicus Cream Cups: Prunus ilicitatia Holly-feat Charry Rafinesquia neomexicana G Desert Chicory o Ribes quercetarum Oak Gooseberry ٥ Rompa nasturlium-aquaticum Water-cress c Rosa californica California Rose Sallugilia australis Southern Gilia Senecio californicus California Butterweed Senecio fiscoldus Butterweed Sidalcee matvaeflore Checker-bloom Sisymbrium sp. Tumble Musterd ٥ Solidago californica California Goldenrod ò Stachys ajugaides Hedge-nettle Stephenomeria sp. o Wreathplant Streplanthus campestris ٥ Southern Jaweiflower ¢. Stylectine gnaphatioides Everlasting Nest-straw Tetradymie comosa э Collor-thorn Thysanocarous so. Fringepod c Trichostemma perishli Mountain Bluscuris Тгорідоситит длясію :1 Slender Dobie-pod. **Игорар**риз (ін**сі**ву) Silver Puffs Viola purpurea Oak Yollow Violet Other Flowering Plants:

appropriate lead

Rare Wildlife or Rare Plants:

36

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Recorder: Mary 6, c	Noth	Add'l Person:		Date: 🔀 🔏 🕦	G	PS Unit :_	12.
Project: Concentrix Solar	Project N	1ap #:Sur	vey Sxn:	QCB Protocol Survey #	1	of	5
TIME (24 hour)	Tomp (P1):	Y/Ind (avg/mex)	* cc	Say			
Sitra			<u> </u>	clear onliny overcast	d'azzie	sharaar	
16.7.	<u> </u>			(Geer / pullphy trythroas)	darzin	shows	
1350	-170		· — —				·
	$\frac{1}{2}$	- 7 <u>-</u> 44	· · · · · · · · · · · · · · · · · · ·	clear / spichy overcoss	chi 778a	Spanie	
	12		4-2+	Clock Canlaby Oversing	dhzzia	shower	—∙—-[
 			+	clear paticity overcast	r\$12.Ma	#Igneros	
			; <u> </u>	clear <u>palichy</u> over <u>oast</u>	diazin	shower	
End			`	clear policity overnes	Фиги	shower	
Habilat On <u>-site (circle): ope</u> n se	oils hilltops.	ridges, rock outge	ops soil <u>cru</u> sts to — Tot el	lay soils, fild roads, various nectar source	9 :		Total
Nymphalidae (Brushfooted B				Hesperiidae (Skippers)			
Euphydryas editha (Quino Cl				Erynnis funeralis (Funereal Duskywie	g)		
Euphydryas chalcedona (Hei		ersoci)		Erynnis tristis (Sad Duskywing)			7
Thessalia leanire (Wright's C				Erynnis propertius (Propertius Dusky)	ving)		
Chiosyna colifornica (Californ				Erynnis brizo (Sleepy Duskeywing)			
Chlosyne gebbii (Gabb's Che				Pyrgus communis(Checkered Skippe	r)		
Phyciodes mylitta (Mylitta Cre				Hesperia jubia (Jubia Skipper)			
Junonia coania (Common Bu				Polites sabuleti (Sandhill Skipper)			.
Vanessa annaballa (West Co			.	Megathymidae (Glant Skippers)			l
Venessa atalanta (Red Admir		·		Megalhymus yuccaa (Yucca Giant Sk	(pper)		
Vanessa cardur (Painted Lac							
Vanessa virginiensis (Virginia Nymphalis californica (Califo		anolli		Other Bulterflies:	\		 .
Danaldae (Milkwood Butterfil		:Silell)		The state of the s	-	<u> </u>	47
Dangus plexippus (Monarch)							
Danaus gilippus (Queen)	<u> </u>						j
Satyridae (Satyrs)				i			
Coenonympha californica (Co	ommon Calif	orma Rinolot)		†·		—··· —	+
Pieridae (Whitee, Sulphurs)			·	·- ··			
Pieris rapae (Cabbage White)			 			
Pontia sisymbrii (Spring While	e)			<u> </u>	•		. . —
Pontia beckerii (Beker's Whit	e)		I	•			
Pontia protodice (Common W	/hite)	 ·					
Anthocharis sara (Sara Oran	getip)		111				
Anthocharis cathura (Felder's							
Euchloe hyantis (Desert Pea:			. المثال		_		
Collas eurythema (Oracge S:				<u> </u>			
Colias harfordii (Harford's Su		x4	i i	<u> </u>	- —		
Nethalis iole (Dainty Sulphur)	l	1. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	\				
Papilionidae (Swallowtalls)		- 115	·	Notes:			
Papilio polyxenes (Desert Bla Papilio eurymedon (Pale swa		8 II)		!			
Papilio rutulus(Western Tiger		n ———	—— -· —	!			_
Riodiniade (Metalmarks)		"	· — !— ·-	 			_
Apodemia mormo (Behr's Me			ight igh	t. · ·			
Lycaenidae (Hairstreaks and			105-115	 		. ———	i
Celastrina ladon (Spring Azul			$\overline{}$	· —			_
Leptoles marine(Marine Blue			-	·			+
Brophidlum exile (Western Py	_		— † -···		· -		
Glauconsyche fygdamus (Sol		Silvery blue)	<u> </u>	!			
Hemiergus cereunus (Edward			 -			··	
Icaria acmon (Acmon Biue)				• · · · · · · · · · · · · · · · · · · ·			 -
Philoles sonorunsis(Sonoran	Blue)			: -			
Callophrys augustinus (Brown			 -		<u> </u>		
Collophrys dumotorum (Perp	lexing Green	Hairstreak)		<u> </u>		— -·	
Trymon melinus (Gray Hairs	treak)] — - — — —			
'93 halesus (Great Purple	Hairstreak)		1	<u></u>			-
]			

itial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP ·

-	Antirrhinum coulterianum	<u>= AC Callinsia concolor = C</u>
7	Amsinckia menziesli Antirrhimum coulterianum	Rancher's Fiddleneck
		Coulter's Snapdragon
٥	Antimhinum huttallianum	Nu tall's Snapdragon
٠:	Asclepias fascicularis	Nerrow-leaf Milkweed
0	Boechera sp.	Rock Cress
0	Calandrinio ciliata	Red Maids
0	Celochortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipos	Marning-glory
0	Carrissonia sp	Sun Cup
C	Castilleja exerta	Paintbrush
0	Caulanthus hotorophyllus	San Diogo Jawelflower
C.	Caulanthus simulans	Payson's Caulanthus
Ç	Ceanothus cuneetus	Buck Brush
11	Ceanothus greggii	Cup-leaf-lifac
9	Ceanothus le yeodormis	Chaparral Whitethorn
٥.	Cheenactis artemisiilolia	White Pincushion
ο.	Cheenactis glebriuscula	Yellow Pincushlon
41	Clentatis sp.	Clematis
0	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Park-tip Bird's Beak
4	Coreopsis celifornica	Catifornia Coreopsis
"	Corethrogyne filaginifolia	Common Send-aster
×		Gryptantha
0	Cucurbita foetidissima	Cafabazifia
٠,	Descuralnio ap.	Tansy-mostard
9	Dicentra chrysantha	Golden Ear-drops
o	Dichelosiemma capitatum	Blue Dicks
0	Dudloya sp.	Dudleya
0	Emmonanthe penduliters	Whispering Bells
C	Eriastrum sp.	Woolly-star
С	Ericameria sp.	Goldenhush
0	Erigeron foliosus	Loafy Daisy
0	Eriodictyon trichoestyx	Hairy Yerba Santa
л	Eriogonum fasciculatum	Inland California Buckwheet
ė,	Erlogonum sp.	Buckwheat
0	Eriophyllum sp.	Long-stem Golden-yarrow
0	Erodium eleutarium*	Red-stem Storksbill
٥,	Erysismum capitalum	Western Wallflower
r	Eschscholzia celifornice	California Poppy
X.	Eucrypta chrysanthomifolia	Spotted Hideseed
۰	Euthamia occidentalis	Western Goldenrod
K(Garrya vestahii	Canyon Silk Tasset
o	Gilia sp.	Gilia .
0	Gnaphalium	Cudweed
0	Guillonia tesiophylle	California Mustard
Ņ.	Gulierrezia sarothrae	Broom Matchweed
0	Heliotropium curassavicum	Sait Heliotropa
0	Hirshfeldie incane	Short-ped Mustard
o.	Lamium amplexicaule	Henbit
\propto	Lesthenia gracitis	Common Goldfields
6 \	Layia glandalosa	White Layia
2	Lepklium sp.	Pepper woe d
K	Linanthus bolius	Desert Beauty
e e	Linanthus dicholomus	Evening Snow
0	Lonicera subspicato	Johnston's Honeysuckie
o	Melecothrix cplifornics	California Dandelion
ь.	Malacothrix clavelandil	Cleveland's Malacothrix
e.	Marah macrocurpus	Wild-cucumber
0	Marrubium vulgare*	Horehound
1:	Metricerie matricarioldes*	Common Pineapple-weed
n	Mentzelia veatchiana	Veatch's Stick-leek
!:	Microsteris gracilis	Slender Phlox
ο.	Mimulus ap.	Monkéyflower
مرو	Nemophila menzeisii	Small-flower Baby Blue Ryes
5	Orobanche bulbosa	Chaparral Broom-rage

Chapacral Broom-rape

Orobanche bulbosa

Osmadenia tendita	Osmadenia .
Paeonia californica	California Peany
Pectocarya sp.	Pectocarya
Phacelia sp. 🖟(¬+ルバ)	Phacelia :
Pholistoma membranecoum	White Flesta Flower
Plagiobolhvys sp.	Popcornflower
Plantago patagonica	Desort Plantain
Platystemon californicus	Стеат Сира
Prunus ilicifolla	Holly-leaf Cherry
Ratinesquia neomexicana	Desert Chicory
Ribes quercetarum	Oak Gooseborry
Rordpa nastudjum-aquaticum	Water-cress
Rosa californica	California Rose
Sollugilia australis	Southern Glifa
Senecio celifornicus	California Butterweed
Senecio flaccidus	Butterweed
Sidalcea maivaeliom Sisymbrium sp.	Checker-bloom Tumble Mustard
Solidago californica	California Goldenrod
Stachys ajugoides 15-4 d 4	Hedge-natile
Stephanomone sp.	Wreathplant
Streptanthus campestris	Southern Jewelflower
Stylocline gnaphalicides	Everlasting Nest-straw
Tetradymią comosa	Cotton-thorn
Thysanocurpus sp.	Fringepod
Trichostemma parishii	Mountain Bluecurls
Tropidocarpum gracile	Slender Dobie-pod
Uropappus lindleyi	Silver Puffs
Viole purpurea	Qak Yellow Violet
•	
Other Flowering Plants:	
Charles transfer	•
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Charles Same	N. S. 18 3 5 5
Rare Wildlife or Raro Plants:	
•	
Barngeler degle	Service of the service of the
10 19 11 W. D.	7 pr. 3
55-55 COL - 64	•
• 1 = 0 • 1	
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<u> </u>	
_	_1.7.1.
Riant boltoni	
BlackJackni	9 7) T

HOAN HZARD MAHLOI Linanthur bellys MALB 01-09

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet Date: 3-3(-20/1 GPS Unit: Add'l Person: Recorder: Concentrix Solar Project QCB Protacol Survey # TIME (24-hour) Sky Starf drizzle ovescapi ынже 41230 AMPAPA Overcasi dizzie モルつ disale d:lazie **GVERCOSI** shower dizze ownersal parathy End ckon dazde Habitet On-site (circle) open soils hilltops (rioges (lock outcrops) soil crusts, clay soils, old roads, vanous nectar sources Total Total Nymphalidae (Brushfooted Butterflies) Hesperiidae (Skippars) Euphydryns adilha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryas chalcadona (Henne's Checkerspot) Erynnis Iristis (Sad Duskywing) Thessalia leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskyvang) Chłosyne celifornice (Celifornia Palch) Erynnis brizo (Sleepy Duskeywing) Chłosyno gabbii (Gabb's Checkerspot) Pyrgus communis(Checkered Skipper) Phyciodes mylitte (Mylitta Crescent) Hespene jubia (Jubia Skipper) Junonia coonia (Common Buckeye) Polites sabuteti (Sandhill Skipper) Vanessa annaholla (West Coast Lady Mogathymidae (Giant Skippers) Vanessa atalanta (Red Admiral) Megathymus yoccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) Vanessa virginiansis (Virginia Lady). Other Butterflies: Nymphalis californica (California Tortoiseshell) Danaidae (Milkweed Butterflies) Danaus plexippus (Monarch) Danaus gilippus (Queen) 9atyridae (Satyrs) Coenanympha californica (Common California Ringlet) Pieridee (Whites, Sulphurs) Pieris rapae (Cabhage White) Pontia sisymbni (Spring White) Pontla beckerii (Beker's White) Pontia protodico (Common White) \mathbf{z} Anthocharis sara (Sara Orangetio) Anthocharis cethura (Felder's Orangeto) Euchloe hyantis (Desert Pearly Marble) 10 Colins eurytheme (Orange Sulphur) Collas harfordii (Harford's Sulphur) Nathalis ible (Dainty Sulphur) Papillonidae (Swallowtalis) Notes: Papilio polyxenes (Desert Black Swallowteil) Papilio eurymedon (Pale swallowfail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apademia mormo (Behr's Metalmark) Lycaenidae (Heiratreaks and Blues)

Celastrina ledan (\$pring Azure) Leptotes marina(Marine Blue)

Icaria acmon (Acmon Blue)
Philoles sonorensis(Sonoren Blue)
Cellophrys augustinus (Brown Efin)

Brephidium exile (Western Pygmy Blue)

Hemiargus ceraunus (Edward's Blue)

Strymon melinus (Grey Hairstreak) Attides helesus (Great Purple Hairstreak)

Glaucopsyche lygdamus (Southern Blue/Silvery blue)

Callophrys dumetorum (Perplexing Green Hairstreak)

atial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar).

Mintulus sp.

Nomophila menzeisii

Ombencho bulbosa

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantago patagonico = PP

	Antirrhinum coulterianum	n = AC Collinsia concolor = (
-	Amsinckia menziesii	(Rancher's Fiddleneck)
0	Antimhimum coulterianum	Counter's Snapdragon
	Antimhloum nuttallienum	Nuttall's Snapdragon
٥	Asclepias fascicularis	Nagow-leaf Milkweed
c	Boechere sp.	Rock Cress
n	Calandrinia ciliata	Rep Maids
- 11	Calacitorius concolor	Golden-bowl Mariposa Lily
u	Calystegia longipes	Morning-giory
٥	Camissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
0	Caulanthus hetorophyllus	San Diego Jewelflower
	Caulanthus simulans	
	Ceanothus cureatus	Payson's Caulanthus
		Buck Brosh
	Coencibus greggil	Cup-leal-lac
٠.	Coanolhus leupodermis	Cheparral Whitethorn
0	Chaenactis artemislifolia	White Pincushion
0	Cheenactis glabiluscula	Yellow Pincushion
.,	Clematis ap.	Clematis
6	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
S	Coreapsis celifornica	California Coreopsis
0	Corathrogyne fileginifolie	Common Sand-aster
0	Cryptantha sp.	(_Cryptantitie
o	Cucurbita foetidissima	Carabazilla
1:	Descurainia so,	< Tansy-mustard
0	Dicentra chrysantha	Golden Far-drops
С	Dichelostomma capitalum	Blue Dicks
11	Dudlaya sp.	Dudleya
Q.	Emmenanthe pendulifera	Whispering Bolls
0	Eriastrum sp.	Woolly-star
. 5	Ertcameria sp.	Goldenbush
G.	Erigeron foliosus	Leafy Daisy
0	Eriodictyon trichocatyx	Hairy Yerba Santa
0	Eriogonum fasciculatum	Inland California Buckwheat
G	Елодопит эр.	Bu¢kwheat
0	Eriaphyllum sp.	Long-stem Golden-yarrow
0	Erodium eleuterium*	Red-stem Storkebili
J	Erysismum capitutum	Western Walltower
9	Eschscholaio californica	California Poppy
0	Eucrypta chrysonthemitolia	Spotted Hideseed
0	Euthamia occidentalis	Western Go'denrod
6	Garrya veetchii	Canyon Silk Tassel
o	Gille sp.	Gllia
13	Gnaphalium	Cudweed
n	Guillenia lasioahvile	California Mustard
ò	Gulierrezia sarolturae	Broom Matchweed
ū	Heliotropium curessaviçum	Salt Hellotrope
:	Hirshfeldie incana	(Short-pod Mustard)
D-	Lemium emplexicade	Henbit
0	Lasthenia gracilis	Common Coldiolds
ń	Layla glandulosa	White Layla
9	Lapidium sp.	-
	Linealhus bollus	Pepperweed
a a	Linenthus dicholomus	Cesert Beauty
		Evening Snow
ď	Lonicera subspicata	Johnston's Honeysuckie
0	Malacothrix californica	California Dandellon
0	Melacothrix clevelandii	Cleveland's Malacothrix
1	Marah mecrocerpus	Wild-cocumber
9	Marrubium vulgare*	Horehound
٥	Metricaria matricarioides*	Common Pineapple-wood
٥	Mentzelia veatchiana	Veetch's Stick-leak
0	Microsteris gracilis	Slendor Phlox
	Adioteches and	Mantenuffaction

Monkeyflower

Small-flower Baby Blue Eyes

Chaparre] Broom-rape

c	Osmadenia lenella	Osmadenia
o	Paeonia californica	California Peony
e.	Pectocarya sp.	Pectocarya
G_{i}	Phacelia sp.	Phacélia
C	Pholistoma membranaceum	White Fins [a Flower
O	Plagiobothrys sp.	Popcomfitmer
e.	Plantago palagonica	Desert Plantain
0	Platystemon californicus	Cream Cups
٥	Prunus ilicifolia	Holly-leaf Cherry
O	Ratinesquia neomexicana	Desert Chicary
r.	Ribos quercelorum	Oak Gooseberry
G	Rompa nasturtium-aquaticum	Water-cress
9	Rosa celifornica	California Rose
5	Saltugilia austrolis	Southern Gjfig
41	Senecio celifornicus	California Buttenvoed
a	Senecio flaccidus	Bulterweed
0	Sidalces matvaettora	Checker-bloom
5	Sisymbrium sp.	Tumble Musterd
n.	Solidago californica	California Goldenrod
0	Stachys ajugoides	Hedge-nettle
0	Stophanomeria sp.	Wreathplant
0	Streptanthus campestris	Southern Jewelliower
0	Stylodine graphalloldes	Everlasting Nest-straw
2	Tetradymia comosa	Cotton-thorn
ঙ	Thysanocarpus sp.	Fringepo d
.0	Trichostamma parishii	Mountain Bluecuris
o	Tropidocorpum gracita	Stender Dobie-pod
Q.	Uropappus IIndleyi	Silver Puffs
o	Viola purpures	Oak Yellow Violet
9		
9		
15	Other Flowering Plants:	

Rare Wildlife or Rare Plants: AF CHO1: 18 Coppers Rawk

AF 4501: 1 individual adult housed

Lock + 1 pair in ricinity

AF 4502: 1 pair Hors.

AF 4503: 2 pairs of Hord

Recorder: MIKE COUFFERAdd'l Person:	سى	Date: <u>1 ຊາຊະໂປ, 201\</u> GPS Unit :	<u>C_</u>
Project: Concentrix Solar Project Map #: 🖳 Survey S	xn:	GCB Protocol Survey # 1 of	5
	c c	Sky	
SHOP 0830 HRS 810F -	e .	(ution) pullong overcost dritate shower	
0900 HPS 83°F Ø->1 MPH &	9 [™]	clear palithy overcost charle shower	
	·		
		palony overcast druzle present	
1 01/10 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>ප</u>	(deed) gallony overcent drugle shower	
	2	clear galchy overcast drizzla singwer	
1300 Hes 86°F 1-4 may -	*	Class palety generals distribution absorber	•
Ena 1400 HRS 86°F 0	→ "	(Cox) pnichy overtost druzio shower	
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, so	oil causts, c Total	lay solls, old foads, various nectar sources	Total
Nymphalidae (Brushfooted Butterflies)	1000	Hesperiidae (Skippers)	T 70141
Euphydryas editha (Quino Checkerspot)	1	Erynnis funeralis (Funereal Duskywing)	3
Euphydryas chakedona (Henne's Checkerspot)	1	Erynnis tristis (Sad Duskyvring)	 ~
Thesselia leanira (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)	ļ ·
Chlosyne celifornica (California Patch)	+	Erynnis brizo (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's Checkerspot)	+	Pyrgus communis(Checkered Skipper)	
Phycioties myllite (Myllite Crescent)	+	Hospene jubia (Jubia Skipper)	+
Junonia coenia (Common Buckeye)	1	Polites sabuleti (Sandhill Skipper)	
Venessa ennebella (West Coast Lady	1	Megathymidae (Glant Skippers)	
Vanessa atalanta (Red Admiral)	·	Megethymus ywccae (Yucca Giant Skipper)	
Vanessa cardur (Painted Lady)	+	moganifinas (nocas (nocas cient company	 -
Vanessa virginiensis (Virginia Lady)	+	Other Butlerfiles:	+
Nymphalis californica (California Tortoiseshell)	+	<u> </u>	120
Daneldae (Milkweed Butterfiles)	· 	VANESSA SP. (UNIDENTIFIED LADY)	 ~
Danaus plexippus (Monarch)	1		
Daneus gilippus (Queen)	-	· ·	
Satyridao (Satyrs)	+	· ·	+
Coerionympha californica (Common California Ringlet)	+		+
Pleridec (Whites, Sulphurs)	+	 	+
Pieris rapeo (Cabbage White)	+	 	-
Pontia sisymbrii (Spring White)	45		}
Pontia beckerii (Beker's White)	43		
Pantia protodice (Common White)	1	· · · · · · · · · · · · · · · · · · ·	
Anthocheris sara (Sara Orangelip)	† 13	**********	
Anthochans cethure (Felder's Grangetip)	+-+-		i
Euchloe hyantis (Desert Pearly Marble)	7		i
Colias curythome (Orange Sulphur)	1 1		i
Colias harfordii (Harford's Sulphur)	1 2		
Nathalis lole (Dainty Sulphur)	33	• • • • • • • • • • • • • • • • • • • •	†
Papilionidae (Swallowtails)	+	Notes:	•
Papilio polyxenes (Desert Black Swallowfail)			:
Papilio eurymedon (Pale swallowlaii)			:
Papilio rutulus(Western Tiger Swallowteil)	 		į
Riodiniade (Metalmarks)			:
Apodemia mormo (Behr's Metalmark)	111		i
Lycaenidae (Hairstreaks and Blues)	 -		†
Celastrina ladon (Spring Azure)			†
Leptoles marine(Marine Blue)	1		i
Brephidium exile (Western Pygmy Blue)	 	·	•
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	1		i
Homiargus cereunus (Edward's Blue)	1		1
(caria acmor (Acmon Blue)	7	<u> </u>	1
Philates sonorensis(Sonoran Blue)	 		\top
Callophrys augustinus (Brown Effin)	4		·
Cellophrys dumetorum (Perplexing Green Heinstreak)	 4	· · · · · · · · · · · · · · · · · · ·	.—
Strymon melinus (Gray Hairstreak)	' -		1
Affides halesus (Great Purple Hairsfreak)	T	· · · · · · · · · · · · · · · · · · ·	1
<u> </u>	1	: ···	1

tential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

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Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum courtenanum	= AC COMMSTA CONCORDE = CC
0	Amsinckia menziasli	Rancher's Fiddleneck
**	Antimhimum conflerianum	Coulter's \$napdragon
, D	Antimhinum nuttallianum	Nuttali's Shapdragon
Vi.	Asciepius fascicularis	Narrow-leaf Milkweed
. 0	Boechera sp.	Rock Cress
11	Calandrinia ciliata	Red Maids
Ċ	Calochorlus concolor	Golden-bowl Mariposa Lily
C	Calystenia longipes	Morning-g'ory
0	Camissonia sp.	Sun Cup
С.	Castilleja exerta	Paintbrush
	Caulanthus heterophyllus Caulanthus simulans	San Dego Jewelflower
C G	Ceanaltrus sunatus	Payson's Cautanthus Buck Brush
	Ceanothus greggii	Cup-leaf-lilac
	Ceanothus leucodemis	Chaparral Whitelhom
L:	Chaenactis artemisiifelia	White Pincushion
	Cheenactis glebriuscula	Yellow Pincushion
e e	Clematis sp.	Clematis
n	Callinsia concolor	Southern Chinese Houses
12	Cordylanthus rigidus	Dark-lip Bird's Beak
С	Coreopsis californica	California Coreopsis
o	Corethrogyne filaginifolia	Common Sand-aster
<u></u>	Cryptenthe sp.	Cryplantha
0	Cucurbite footidissime	Calebazilla
0	Descurainia sp.	Taney-mostard
U	Dicentra chrysentha	Golden Ear-drops
0	Dichelostemme capitetum	Slue Dicks
r:	Dudleya sp.	Dudleya
EI	Emmenanthe pendulifere	Whispering Bells
G	Eriestrum sp.	Woolly-star
٥	Ericameria sp.	Goldenbush
C	Erigeron foliosus	Leafy Daisy
41	Eriodictyon Inchocalys	Hairy Yerba Santa
::	Eriogonum fasciculatum	Inland California Buckwheat
o n	Eriogonum sp.	Buckwheat
n li	Eriophyllum sp Erodium cicularium*	Long-stem Golden-yarrow Red-stem Storksbill
.,	Fryslsmum capitatum	Western Wallflower
ú	Eschacholzin californica	California Poppy
0	Eucrypta chrysanthemifolia	Spotted Hideseed
D.	Eulhamia occidentalis	Western Goldenrod
	Garrya vealchii	Canyon Silk Tassel
13	Glia sp.	Gilla
9	Gnachalium	Cudweed
0	Gullterile lasiophylle	Caffornia Mustard
6	Gulierrezie sąrothrąę	Sroom Matchweed
9	Hellotropium curassevicum	Salt Heliotrope
0	Hirshfeldia Incona	Short-pod Mustard
e.	Lemium amplexiceule	Henbit
a	Lasthenia gracilis	Common Goldfields
◎	Layia glandulosa	White Layia
2	Lepidium sp	Pepperweed
0	Linanthus bellus	Desert Beauty
a	Unanthus dicholomus	Evening Snow
47	Lonicora subspicate	Johnston's Honeysuckle
41	Malacothrix californica	California Dandelion
٥	Malacothrix clevelarktii	Cleveland's Malacothrix
9	Marah macrocarpus	Wild-cucumber
0	Morrublum yulgare*	Harehound
0	Motricoria matricanoides*	Common Pineappic-weed
9	Mentzelia veetchiene	Veetch's Stick-leak
٥	Microsteris graculis	Stender Phiox
0	Mimulus ap. Nemophila menzeisii	Monkeyflower Small-flower Baby Blue Eyes
~	Orahoneka hu/kana	Chancel Broom con

Chaparral Broom-rape

Orobenche bulbosa

o	Osmadenia tencila	Osmadenia
0	Paconia californica	Cefifornia Peony
U.	Peclocarya sp.	Pectocarya
œ.	Phacelia sp.	Phacelia
0	Pholistoma membranaçeus	m White Fieste Flower
<u>න</u>	Plagiobothrys sp.	Popcomflower
0	Plantago palagonica	Desert Plantain
o	Pletystemon californicus	Cream Cups
0	Pronus ilicifolia	Hofly-leaf Cherry
ο.	Refinesquia neomexicane	Desert Chicory
O.	Ribes quercetorum	Oak Gooseberry
0	Rorripa nesturlium-equation	tim Water-cress
۰.	Rosa californica	California Rose
0	Saltuglila australis	Southern Gilia
n	Senecio californicus	Catifornia Butterweed
O	Senecio fleccidus	Butterweed .
O.	Sidalcea melveellore	Checker-bloom
O	Sisymbrium sp.	Tumble Mustard
Ů.	Solidago californica	California Goldenrod
e.	Stachys ajugoldes	Hedge-nettle
O.	Stephanomeria sp.	Wreathplant
O	Streplanthus campestris	Southern Jewelflower
0	Stytocline gnaphalioides	Everlasting Nest-straw
٥	Totradymia comosa	Colton-tham
٥	Thysanocarpus sp.	Fringepool
0	Trichostomma parishit	Mountain Bluecuris
O	Tropidocarpum gracile	Stender Doble-pod
O	Uropappus Indleyi	Silver Puffs
O	Viola purpurea	Oak Yellow Violet
0	•	
0		
٩,	Other Flowering Plants:	
رد	CERNOMUS 5%	
0	Mo Co Signification	* O A GEROLEA
: •	MO CONIDO MO	T PLANTS OBSERVED
O		— — -
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0		
O	Rare Wildlife or Rare Pta	nts:
0	Milani i	lanuen Lanue
٥.	WCT401 F	lorned laz <u>ic</u> Scack-talled Jackbarbait
0	Wegaogn 6	LIBOASASA GELLAT - DANS
2	Mc HLOI	JARANEO LITARO
0	UICMEO!	2. N. HOMACO CLANICO
0		

Recorder: Ann Rec	Fisher-	_Add'l Person:	-,,	Date: 4-1-2011 GPS Unit : 12	
Project: Concentrix Sc	otar Project N	<u>1ap#: ┡</u> Sur	vey Sxn: 👃	QCB Protocol Survey# of 5	
TIME (24-hour)	Temp (F*);	Wind (evgimes)	w.cc	Sky	
Steri	:		Li	(loar patchy overcast discale showns	
0837	75.5	Ø	<u> 8</u>	(1796) patchy onequed shritte street	
			, ~·	clour patchy everant duzze shower	
·-		·-	l		
	 			okony parchy processi dozale showur	
	 			clear patchy nvorcesi chrzna shower	
	·	- ,			
End 1347	88		Ø		
Habitat On-site (circle): ope	<u>n soils, hilftops,</u>	ndges, rock outer		clay soils, old roads, vanous nectar sources	
Nymphalidae (Brushfoote	el Butta-Black		Total	Total	
Euphydryas editha (Quino				Hesperildae (Skippers) Erynnis funeralis (Funereal Duskywing)	
Euphydryns chalcedona (arcent)		Erynnis tristis (Sad Duskywing)	
Thesselia leanire (Wright)		парик)		Erynnis propertius (Propertius Duskywing) [K] 5	
Chlosyne californica (Cali		· · · ·		Erynnis brizo (Slaepy Duskeywing)	
Chlosyne gebbii (Gabb's (Pyrgus communis(Checkered Skipper)	
Phyciodes mylitta (Mylitta		•	 	Hesperia jubia (Jubia Skipper)	
Junonia coania (Common			··	Polites sabuleti (Sandhill Skipper)	
Vanessa annabella (West				Megathymidae (Glant Skippers)	
Vanessa atalanta (Red Ad			·-· ·	Megethymus yuocae (Yucca Giant Skipper)	
Vanessa cardui (Painted				meganymis yexcee (10cca Giait Gripper)	
Vanessa virginiensis (Virg			— ⊹——	Other Butterfiles:	
Nymphalis californica (Ca		eshell)		- Constitution make	
Danaidae (Milkweed Butte				Biros	
Daneus plexippus (Monar	··- ' · · · · · · · · · · · · · · · · ·			AA-T MISE BEEL SHOW CARRY	
Danaus gilippus (Queen)	411 7		·	UNITED THE STATE OF THE STATE O	
Satyridae (Satyrs)			+	DATE LAST BIST CARL SAPAT WSSK, LEWE, DESTU, BUSH, NOTEL BEWE, WENTE, CALT, CATH	
Coenonympha californica	(Common Calif	ornia Rinoleti	· 	OGWC, WEMB, CHET, CHIN	
Pieridae (Whites, Sulphur				Thispero racer, side - blotch logard	
Pienis rapae (Cabbage White)				granit sping Litaria	
Ponlie sisymbnii (Spring White)				- grown sping wears	
Pontia beckeni (Beker's W			<u> </u>		
Pontia protodice (Commo	n White)		7	······································	
Anthochans sara (Sara O		bet li	12		
Anthochans cethura (Feld		1911 • • • •	(1/2 1.71/107	
Euchloe hyantis (Desert P	early Marble) (M M IM W	10	100 WW.	
Colias eurytheme (Orange	e Sulphur) p		1	†· / — * -	
Colias harfordii (Harford's	Sulphur)				
Nethalis fole (Dainty Sulpt	nur)		İ		
Papilionidae (Swallowtails	s) ·			Notes:	
Papilio polyrones (Desert		ail)	1		
Papilio eurymedon (Pale s				LENCOL: Ladur (son remention	
Papilio rululus(Wastern Ti	iger Swallowtail)		NENLOZ: 6 Jus CAUST harnen Kiran	
Riodiniade (Metalmarks)					
Apodemia mormo (Behr's	Metalmark) (y{	malmon w	Mui 65	ACTROL: 1 agent BT (actorable)	
Lycaenidee (Hairstreaks and Blues) (III IM) (III)				SF 38002: 2 anuto 37 per ablato	
Celestrina ladon (Spring Azure)				AFJEOS LAGUED BT BEKINGETS	
Leptoles marina(Marine B					
Brephidium oxilo (Western				NECOMPOSTOL: Common said	
Glaucopsyche lygdamus (Silvery blue)	seed active in pain in area.		
Hemiargus coreunus (Edv				- //	
Icaria acmon (Acmon Blux	<u> </u>				
Philotes sonorensis(Sono				<u> </u>	
Cellophrys eugustinus (Br		Maind			
Callophrys dumetorum (Perplexing Green Hairstreak) [[] 3					
Strymon melinus (Gray Hairsheak)				 	
Attides heliasus (Great Purple Hairstreak)					
			I		

ions. <u>Intial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)</u>

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonico = PP

Antirrhinum coulterianum	n = AC Collinsia concolor = 0
Amsinckla menziesil	-
Antirrhimum coultorianum	Rancher's Floidleneck
Antimhinum nuttallianum	Coulter's Snapdragon
	Nuttali's Snapdragon
	Narrow-laaf Milkweed
Boechera sp.	Rock Cress
Calandrinia ciliata	Red Maids
 Calochortus concolor 	Goldon-bow Marlposa Lily
 Calystegia longipes 	Morning-glory
 Camissonia sp. 	Sun Çup
Castilleja exerta	Paintbrush
 Cavianthus hoterophytius 	San Diago Jewelflower
 Cautanthus simulans 	Payson's Caulanthus
 Ceanothus cuneatus 	Suck Grush
~ ∫Coanothus greggii	Cup-leaf-lilac
o Ceonothus leucodormis	Chaparre! Whitethorn
 Chaonactis artemisifolia 	White Pincushion
 Cheeneclis glabriuscula 	Yellow Pincushion
 Clematis sp. 	Clematis
 Collinsia concolor 	Southern Chinese Houses
 Cordylanthus rigidus 	Dark-tip Bird's Beak
 Coreopsis celifornica 	California Coreopsis
 Corethrogyne filaginifalia 	Common Sand-aster
Cryptentha sp	Cryptantha
 Cucurbita foetklissima 	Calabazilla
Descureinie sp.	Tansy-musterd
: Dicentra chrysantha	Golden Ear-drops
 Dichelosienime capitatum 	Blue Dides
ο <i>Dudleya</i> sp.	Qudieya
 Emmenanthe pendulifera 	Whispering Bells
: Eriastrum sp.	Woolly-star
v Ericameria sp.	Goldenbush
Erigeron foliosus	Leafy Daisy
 Eriodiciyon trichocalyx 	Hairy Yaroa Santa
Eriogonum fesciculatum	Intend California Buckwheat
Eriogonum sp.	Buckwheat
n Etionbellum so	
Erodium cignarium	Long-stem Golden-yarrow Red-stem Storkabiil
Erysismum capitatum	Western Wallflower
Eschacholzia californica	Celifornia Poppy
Eucrypia chrysanthemifolia	
Eulhamie occidentalis	Spotted Hideseed
Garrya veatchii	Western Goldenrod
Gilla sp.	Canyon Silk Tassel
Graphslium	Gilia .
Guillania lasiophylla	Cudweed
Gutierrozie sarothrae	California Mustard
Heliotropium curassavicum	Broom Matchweed
Hirshleidia incane	Saft Heliotrope
	Short-pod Mustard
Lemium amplexicaule	Henbit
► Lasthenia gractiis	Common Goldfleids
Layia glandulosa	White Layia
Lepidium sp.	Pepperweed
Linenthus bellus	Desert Beauty
Linanthus dichotomus	Evening Snow
Lonicere subspicete	Johnston's Honeyauckle
Melecothrix celifornica	California Dendelion
Malacothrix clevelandii	Cleveland's Malacothrix
Marah mecrocerpus	Wild-cucumber
APRICALIAN INTERNATION	Lham to the control of

Horehound

Sleader Phiox

Monkeydlower

Common Pineapple-weed

Small-flower Baby Blue Eyes

Veatch's Stick-leak

Chaparral Broom-rape

ø

Mamibium vulgare*

Mentzelia veatchiana

Microsteris gracilis

Nemophile menzelsii

Orobanche bulbosa

Mimulus sp.

Matricaria metricarioides*

_		
o	Osmadenia tencila	Osmadenia
0	Pasonia californica	California Peony
C	Ресіосатув sp.	Pectocarya
0	Phacelia sp.	Phacolla
٥.	Pholistoma membranaceum	White Flosta Flower
, v	Plegiobathrys sp.	Paparmflower
c	Plantego patagonica	Dosert Plantain
0	Platystemon californicus	Cream Cups .
57	Prunus illoifolis	Holly-leaf Cherry
.:5	Ralinesquia neomexicana	Desert Chicory
Ü	Ribes quercelorum	Oak Gooseberry
٥	Rompe nesturtium-aquaticum	Water-cress
9	Rosa californica	California Rose
п	Saltugilia australis	Southern Gilla
o	Senecio californicus	California Butterweed
o	Senecio Reccidus	Butterweed
0	Siduices maiveeffore	Checker-bloom
σ	Sisymbrium sp.	Tunible Mustard
o.	Sclidago celifornice	Callfornia Goldenrod
n	Stachys ajugoides	Hedge-nattle
0	Stephanomeria sp.	Wreathplant
r)	Strepjanthus campostris	Southern Jaweiflower
y .	Stylucline gnaphalioides	Everlasting Nest-straw
0	Tetradymia comosa	Cotton-thorn
0	Тітузапосатрыя вр.	Frangepod
o.	Trichostemma parishii	Mountain Bluecurts
o	Tropidocarpum gracile	Slender Doble-pad
9	Uropapous lindloyi	Silver Puffs
0	Viole purpures	Oak YeTow Violet
0		Mires Lettree
0		TICHMUNDI REMERCE
a	Other Flowering Plants:	
9		

Rare Wildlife or Rare Plants:

o o

Recorder: Erro Be	rgman	Add'l Person:	N/		<u>(</u>
Project: Concentrix Sc	L.	. 1	vey Sxn:	QCB Protocol Survey# 2 of	5 .
T(ME (24 hour)	Temp (P*):	Wind (evg/max)	% CC		
Start 9:00	610	1-2	De la		
11:00	200		· -	2178	
, _	1600	1-5		galony overcast driving shower	
12:00	67	1-3	. <i>#</i>	(effect) policity overcass drizzle shower	
1:03	180	1-6	J. 100 100 100 100 100 100 100 100 100 10	Cation parety overcust driving shower	
2:00	720	0-6	£)·		
C5 10 12		13K 4-		***************************************	———
·		<u> </u>	e>-		
End 4:00	73"	27	Š	্ৰভ্ৰিন anichy overcest drizzle প্ৰদানত	
Habitat On-site (circle): ope	n soils, hilltops,	ridges, sock outco	ops, soil crusts.	clay soils, old roads, various nectar sources	
[···			Total	<u> </u>	Total
Nymphatidae (Brushfoote	d Butterfiles)	· · · · · · · · · · · · · · · · · · ·		Hesperiidae (Skippers)	
Euphydryes oditha (Quinc	Checkerspot)		<u> </u>	Erynnis funeralis (Funereal Duskywing)	$\overline{}$
Euphydryes chalcedone (Hanne's Check	erspot)	:	Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright:				Erynnis propertius (Propertius Duskywing))	т
Chłosyne californica (Cal:		·		Erynnis brizo (Sleepy Duskeywing)	<u>. </u>
Chlosyne gabbii (Gabb's G				Pyrgus communis(Checkered Skipper)	
Phyciodes mylitte (Mylitta			—— -·· -	Hesperla jubia (Jubia Skipper)	_··
Junonia coenia (Common				: Polites subuleti (Sandhill Skipper)	
Vanessa annabella (West		-	-	Megathymidae (Glant Skippers)	— i
				_ · · · · · · · · · · · · · · · · · · ·	
Vanessa atalanta (Red Ad				Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardul (Painted			 		
Vanessa virginiensis (Virg				Other Butterfiles:	
Nymphalis californica (Ca		eshelij	i	· [
Denaldae (Milkweed Butte		·		Morifa III	3.
Daneus plexippus (Moner	ch)			Westernailed blue III	4
Daneus gilippus (Queen)					:_=
Satyridae (Satyrs)				MORE BIRDS BRENNKID/NOTES!	
Coenanympha californica	(Common Calif	fornia Ringlet)		BUOK EULD LARU	
		fornia Ringlet)		BUNK EUCD (AQU	
Coenonympha californica	s)	fornia Ringlet)		BANK EUCD CARU LIEST NONO BOLAG SEL	
Coenonympha colifornica Plertdee (Whites, Sulphur	s) hite)	fornia Ringlet)		BURK EUCD (ARU LINEST NIOMO BELING STEP	
Coenonympha colifornica Pleridae (Whites, Sulphun Pieris rapae (Cabbage Wi	s) hite) Yhite)	fornia Ringlet)		BUNK EUCD (ARU LINEST NIDALO BELIAG STEP DATI SARH CALT STEP DESU HOFE SPED #6	
Coenonympha californica Plertdae (Whites, Sulphun Pieris rapae (Cabbage Wi Pontla sisymbrii (Spring Vi Pontla beckorii (Beker's Vi Pontla protodice (Commo	s) hite) Yhile) Vhile) n White)			BINK EUCD (AQUI LIVEST NIOMO BELAG STED DATI SARH CAM STED DESU HOFE SPTO #6	
Coenonympha californica Plertdae (Whites, Sulphun Pieris rapae (Cabbage Wi Pontla sisymbrii (Spring Vi Pontla beckorii (Beker's Vi Pontla protodice (Commo	s) hite) Yhile) Vhile) n White)			BINK EUCD (AQUI LNEST NIOMO BELAG (A) DATI SARH CALL SAL DESU HOFI SPTO #6 WEST WELL ROWR BUYH THU KIEP	
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initial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) $-\cdots$ ACARISE(Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail, PLEASE RECORD HOST PLANTS ON GPS See Codes Below: Antirrhinum coulterianum = ACCollinsia cancolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP Amsinckią manzlėsii Rancher's Fiddleneck Osmadenia tenella Osmadenia Antirrhimum coulterlanum Coulter's Snapdragon California Peday BAD48-35 Pagonia californica Antimhinum nuttellienum Nuttall's Snapdragon Pectocarya Рескосмув вр. Asclepias fascicularis Narrow-leaf Milkweed Phacelia sp. Phacelia Rock Cress Boschera sp. White Flesta Flower Pholistoma membranacaum Celendrinia ciliala Red Maids Plaglobothrysisp.: Perconflower Celochorius concolor Golden-bowl Mariposa Lily Plantago petagonica Desert Plantain Calystegia longipas Marning-glory Platystemon californicus Cream Cups Camissonia sp. Sun Çup 68 A DS3 Prunus ilicitotia Holly-leaf Cherry Castilleja exerta Paintbrush Rafinesquia neomexicana Desert Chicory 5**4 A** D56 1 Caulanthus heterophyllus San Diego Jewelflower Oalr Gooseberry Ribes quercetorum そおふしちたつり Coutentinus simulans Payson's Caulaninus Romipa nasturilum-aquaticum Water-cress **EO AD**SE 30 A 359- 2 Ceanothus cuneatus Buck Brush Hosa californica California Rose Ceanothus greagil Cup-leaf-tilac Saltugitia australis Southern Gilia **EC**IANSO~ Ceanothus leucodermis Chaparral Whitethorn BBADGL 16 Senecio californicus California Bullerwood Cheonactis artemisiifolie White Pincush on Senecio flaccidus Butlerweed €8AD6> Chaenactis glabriuscula Yellow Pincushion Sidaksea malvaallora Checker-bloom Clematis sp. Clematia Sisymbrium sp. Tumble Musterd EBAD64 Collinsia concolor Southern Chinoso Houses California Goldenrod Salidago californica ひろれび Cordylanthus rigidus Dark-tip Bird's Beak Stachys ajugoides Hedge-nettic ERADOG 13 Coreopsis celifornica California Coreopsis Stephanomeria sp. Wreathplant EB46671 2 Corettwogyne filaginifolia Common Sand-aster Southern Jewelflower | €13A 568 13 Streptanthus campostris Cryptanina sp. Gryptantha Stylocline gnaphalioides Everlasting Nest-straw(ぐんんしん): 35 Cucurbita foetidissimo Calabazilta Tetradymia comosa 688070-1 Cotton-thorn Descuratrile sp. Tansy-mustard Thysenocarpus sp Fringepod Dicentra chrysantha Golden Ear-drops Trichosternima parishili Mountain Bluecurts Dicholostemme capitatum Blue Dicks Tropidocarpum gracile Siender Dobte-pod Dudloya sp. Dudleya Uropappus lindleyi Silver Puffs Emmenanthe pendulifera Whispering Bells Viola purpuras Oak Yellow Violet Phacalian district Eriastrum sp. Woolly-star Euophyllum wallock Ericamaria sp. Goldenbush Erigeron foliosus Leafy Daisy Other Flowering Plants: Concinery Sallin columbing Eriodictyon trichocalya: Hairy Yerba Santa Inland California Buckwheat Eriogonum fasciculatum Епофорит вр. Buckwheat Erlophyllum sp. → \\\ a \ & \ Leng-stern Golden-yarrow ⊘r Ercolium cicutarlum* Red-stem Storksbill Erysismum capitatum Western Wallflower Eschschotzia californica California Poppy Eucrypia chrysanthemilolia Spotted Hidesped o Euthamia occidentalis Western Goldenrod Rare Wildlife or Rare Plants Gerrya veatchii Canyon Slik Tassal Gilia sp. Gllia Gnaphalium Cudweed Guillania lesiophytta California Musterd Gutierrezia sarothrae Broom Matchweed BADOT Heliotropium curassavicum Salt Heliotropa Hirshfeldia Incana Short-pod Mustard 1006 Lemium amplexicaine Henbit ٥ EBA007 NDOB Lasthonia gracilis Common Goldfields $MD \otimes \mathbb{R}$ 0 Layla glandulosa White Layle ΙŌ Lepidium sp. Pepperweed Linenthus bellus Desert Beauty Linanthus dichotomus Evening Snow Lonicera subspicato Johnston's Honeysuckle Malacothrix californica California Dandelion Malecottrix clevelandii Cleveland's Malacothrix Mareh macrocarous Wild-cucumber Marrubium vukoare* Horehound Metricaria matricancides* Common Pineapple-weed Mentzelia vealchiana Veetch's Stick-leak Microsteria gracitis: Siender Phlox E96901-1 Mimulus ao. Mankeyflower Small-flower Baby Blue Eyes Nemophila menzolsii COUNT Orobenche hulbosa Chaparral Broom-rape 69

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Phyciodes mylitle (Mylitta			ļ	Hesperia jubia (Jubia Skipper)	
Junanie caenia (Common			[Polites sabuleti (Sandhill Skipper)	† ··−
Vanessa annebella (West			[Megathymidae (Glant Skippers)	↑
Vanessa etalanta (Red Ad				Megathymus yuccae (Yucca Grant Skipper)	
Vanessa c <i>ardui</i> (Painted					
Vanessa virginiensis (Virg				Other Butterflies:	!
Nymphalis californica (Ca	lifomia Tortois	eshell)			 ∙
Danaidae (Milkweed Butte	rflies)	···		<u> </u>	-
Danaus plexippus (Monari	ch)		·· ·	· — — — —	
Denaus gilippus (Queen)				 	
Setyridae (Satyre)				 	-
Coenonympha californica	(Common Cal	ifornia Ringlett	,	 	
Pleridae (Whites, Sulphurs				+·	-
Pieris repae (Cabbage Wi	· .		12	 	
Pontie sisymbrii (Spring W			جم ن	·	—
Pontia backerii (Beker's W					.} —
Pantia protodice (Cammor			2-	<u> </u>	
Anlhochens sara (Sara On		. , 	-17	 	
Anthochans cethura (Felde				 	·
Euchloo hyantis (Desert P				<u> </u>	↓ ,
Cohes eurytherne (Orange					.
Colles harfordii (Harford's			<u> </u>		
			 	!	l
Nathalis iole (Dainty Sulph Papilionidee (Swellowialis					
	<u> </u>			Notes:	
Papilio polyxones (Desert		4ail}			<u>.</u>
Papilio eurymedori (Pale s				AREAS ON NECTO SEAST HAVE BOING	} ;
Papilio rutulus(Western Tig	ger Swallowia	.il)		TERRIN BUT MANY INTERESTING ROLL	2607
Riodiniade (Metalmarks)				UNTRAOPS AND DIES SPACES	7-7-
Apodemia mormo (Behr's I	Metalmark) 변설		(641 3/		
Lycaenidae (Hairatreaks at		·		BYTELFUEL MUST ACTIVE FROM	
Celestrina tadori (Spring A	'			1990-1200, 1474 SUSANT HATTY	
Leptoles marina(Marine Bl				673 Action 45 EL 1220	
Brephidium exile (Western					-
Gleucopsyche lygdomus (5		(Silvery blue)		LASTRENIA IS CARPETING LARAS	<u>├</u>
Hemiargus ceraunus (Edw			1	PATION OF GROUND IN AREAS	
Icaria acmon (Acmon Blue			1	TO THE STATE OF TH	<u> </u>
Philotes sonorensis(Sonore			<u> </u>	 	
Callophrys augustinus (Bro			— -	 	
Cellophrys dumetorum (Pe	rolexing Green	n Hairahreak) المركزار (Hairahreak	W 15 -	 	┼ -
Strymon melinus (Gray Ha	irstreak)		# -2 -	 	⊢ ,
Allides halesus (Great Pur		,	+ $-$	·	∤ —
	aaean)	•	———–	 	

__itial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Cades Below:

Antirrhinum coulterianum = AC — Collinsia concolor = CC — Cordylanthus rigidus = CR — Plantago potagonica = PP

	<u> Antirriinum coulterionum</u>	= NC COMMSIA CONCORDE CC (Lordylanthiis rigidus = CR
	<u> </u>		
45	Amsirickia menziesii	Rancher's Fiddleneck	Osmadonia tonella Osmadenia
C	Antirrhimum coulterlanum	Coulter's Snapdragon	 Paeonie culifornica California Peony
a	Antiahinum nutallienum	Nuttall's Snapdragon	Pectocarye sp. Pectocarya
O	Asclopias fascicularis	Narrow-leaf Milkweed	o Phacella sp. Phacelia
O	Boechera sp.	Rock Cress	· Pholistoma membranaceum White Flesta Flower
C/	Calandriola ciliata	Red Me.ds	 Plagiobolhnys sp. Popcornflower
D.	Celochartus concolor	Golden-bowl Maniposa Lily	Plantago patagonica Desert Plantain
Ľ	Calystogia longipes	Morning-glory	Platyatemon californicus Cream Cups
o.	Camiasonia sp.	Sun Cup	Prunus ilicifolia Holly-leaf Chorry
0	Castilleja exorta	Paintbrush	Raffinesquila neomexicana
ð.	Caulanthus heterophyllus	San Diego Jewelflower	Ribes quercetorum
71	Ceulantinus simulans	Payson's Caulanthus	n Rompa nasturitum-aquaticum Water-cress
0	Ceanothus currentus	Buck Brush	a Rose californica California Rose
0	Ceanothus greggie	Cup-leaf-lilac	o Saltuqilia australis Southern Gilla
٥.,	Ceenolhus leucodermis	Chapanal Whitethorn	Senecio californicus California Butterwood
ο	Chaonactis arlemisiifolia	White Pincushion	
0	Cheenactis glabriuscule	Yellow Pincushlon	
0	Clemetis sp.	Clematis	
o.	Collinsia concolor	Southern Chinese Houses	- Lintere Marie
0	Cordylanthus rigidus	Dark-tip Bird's Beak	 Solidago californica Catifornia Goldenrod
	Careopsis californica		Stachys ajugoides Hedge-nettle
9		California Coreopsis	 Stephanomorio sp. Wreathplant
r:	Corotivogyne fileginifolie	Common Sand-aster	 Streptanthus compestris Southern Jewelflower
V	Cryptantha sp.	Cryptantha	 Stylocline gnaphelioides Everlasting Nest-straw
0	Cucurbita foetidissima	Cetabazil:e	 Tetradymia comosa Cotton-thorn
o	Descurainte sp.	Tansy-mustard	э Thysenocerpus sp. Fringepod
0	Dicentre chrysanthe	Golden Far-drops	 Trichosternma perishli Mountain Bluecuris
n	Dicheloslomma capitatum	Blue Dicks	 Tropidocarpum gracile Slender Oobie-pod
31	Dadleya sp.	Oud'eya	Uropappus lindleyi Silver Puffs
a	Emmenanthe pendulifera	Whisporing Bells	Viola purpurea
0	Enastrom sp.	Woolly-star	9 .
0	Ericerheria sp	Goldenbush	0
6	Erigeren foliosus	Leafy Daisy	o Other Flowering Plants:
0	Eriodictyon trichocalyx	Hairy Yerba Santa	· LOMATIUM DASYCHARUM
0	Eriogonum fasciculatum	Infand California Buckwheat	· RHUS OVATA
O	Erióganum ep,	Buckwheat,	DATE OF THE
O.	Eriophyllum sp.	Long-stem Golden-yarrow	0
<	Emdum cicutarium*	Red-stem Storksbill	
c	Erysismum capitatum	Western Wallflower	
G	Eschscholzia celifornica	California Poppy	
0	Eucrypta chrysanthemifolia	Spotted Hidesead	6
a	Euthamia occidentalis	Western Goldenrod	Rare Wildlife or Rare Plants:
a	Gerrya veatchii	Canyon Silk Tassel	45 4
0	Gilia sp.	Gilia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	Gnaphalium	Codweed	· 48NOUZ /
ō	Guillonia lasiophylla	California Musterd	1 2 7 93 (
ō	Girtierrezia sarothrae	Broom Matchweed	° (64 \
2	Holiatropium curassavicum	Salt Hellotrope	° \ \$\ \ \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \
0	Hirshfeldie ingana	Short-pad Mustard	1 0 1 26 1
	Lamium emplexicaule	Henbit	° V Ø7 V
~	Lasihania gracilis	Common Goldlields	2 427 4 4
	Lavia olandulosa		· ABBURI - BT JAGE RABBUT
		White Layia	1.° / 9 ¹ /
<u>"</u>	Lepidium sp. Lineolhus bellus	Pepperweed	1 ° 1 Ø3 1
		Desert Beauty	° W 34 V
٧.	Linanthus dicholomus	Evening Snow	•
	Lonicera subspicate	Johnston's Honeysuckle	c 45.45.44
٥	Malacolhrix californica	California Dandelion	· ABLBOI- LINANTINS BELLUS NAS
Ü	Molacothrix elevetandii	Gleveland's Malacothrix	a
O.	Marah macrocarpus	Wild-cucumber	O. PAD SPECIAL GODE LISTED.
	Maminium vulgere	Horehound	n
	Matricaria matricanoides*	Common Pincapple-weed	17
	Mentzelia veetchiana	Veatch's Stick-leak	9
e.	Microsteris gracilis	Slander Phlipx	0;
С	Mimulus sp.	MonkeyRower	
a	Nemophila menzelsii	Small-flower Baby Blue Eyes	"
	Ombaocha bulhosa	Changeral Broom-rana	_ '

Orobanche bulbosa

Chaparral Broom-rape

Recorder: Mark on t	Parriedu	Add'l Person:	·	
Project:Concentrix So	lar Project_N	<i>Мар #</i> :Sur	vey Sxn:	QCB Protocol Survey # of 5
TIME (24-hou <u>r)</u>	Tomp (F*):	Wind (suginase)	% Cc	Sky
s _{tari} <u> </u>	- X	. 6-2.00		-
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_ <u> [600</u>]	b .	3-5		These syllicity controdes drizzle steamer
l :				clear palithy overcast drizale shower
£nu .		i		
	solls, hilftops,	ridges, rock outco	ops soil crust	s. clay soils, old roads, various nectar sources
Nymphalidae (Brushfooted	Butterfloor	*****	<u></u>	
Euphydryas aditha (Quino			··- -	Hesperiidae (Skippers)
Euphydryas chalcadona (F		ersent)		Erynnis funeralis (Funereal Duskywing) Erynnis tristis (Sad Duskywing)
Messalia leanira (Wright's				Enyonis proportius (Properlius Duskywing)
Chlosyne californice (Califo				Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabbis C				Pyrgus communis(Checkered Skipper)
Phycioties mylitle (Mylitta (
Junonia coenia (Common I				Hespona Jubia (Jubia Skipper) 50 . Hespona Jubia 1
Vanessa annahella (West			—	Politics subuloti (Sendhill Skipper)
Vanessa atalanta (Red Ad			——I –	integration (Olding Supports)
Venesse cardui (Paintod L				Mogalfhymus уиссав (Yucca Giant Skipper)
Vanessa virginiensis (Virgi				Other Designation
Nymphalis californica (Cal		arthall)		Other Butterflies: Photography and Audit () programs ()
Danaidae (Milkweed Butter				
Danaus plexippus (Monaro		· · ·- 		CANIV)
Dunaus gilippus (Queen)	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		·	- -·
Setyridae (Satyrs)				
Синталутріна саміотіса (Common Calif	nma Ricolett	—ŀ…—	
Pieridae (Whites, Sulphurs	1	omia racigiacj		
Pieris rapac (Cabbage Wh				·
Pontia sisymbrii (Spring W			49	·
Pontia beckerii (Beker's W			 45 89	
Pontie protodice (Common			110	· · · · · · · · · · · · · · · · · · ·
Anthocharis sara (Sara Ori			THE V	··· -
Anthocharis cethura (Folde			110	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Euchloe hyantis (Desert Pe			1441	-
Colias eurytheme (Orange			. 1-14	· · · · · · · · · · · · · · · ·
Colies harfordii (Harford's S			14	<u> </u>
Nathalis iole (Dainty Sulphi			—· '¹	· · · · · · · · · · · · · · · · · · ·
Papilionidae (Swallowtails)	· · · · · · · · · · · · · · · · · · ·			Notes:
Papilio polyxenes (Desert I	Black Swallowt	(last)	-†	· · · · · · · · · · · · · · · · · · ·
Papilio gurymadno (Pale si		-		
Papilio rululus(Western Tig	er Swallowia		• —	
Riodiniade (Metalmarks)		<u> </u>		
Apodemia monno (Behr's N	Metalmark)			THE IN THE HE HE HE HE HE HE HE THE THE
Lycaenidae (Hairstreaks an	td Blues)	• • • • • • • • • • • • • • • • • • • •	- - - - - - - - - - 	1 154 144 11
Celestrine ladon (Spring A.	zure)			
Leptoles marina(Marine Blu				T· — — — ·
Brophidium axilo (Western	Pygmy Blue)		i –	<u> </u>
Glaucopsycha lygdanius (S	Southern Blue/:	Silvery blue)	· -	
Hemiergus coreunus (Edwa	ard's Blue)		•	
Inaria somon (Acmon Blue))		···	· · · · · · · · · · · · · · · · · · ·
Philotes sonorensis(Sonors	an Blue)	•	<u></u>	· · · · · · · · · · · · · · · · · · ·
Callophrys augustimus (Bro			····· — ·	·
Callophrys dumetorum (Pe	rplexing Green	Hairstreak)	<u> </u>	-
Strymon melinus (Gray Hai			-	-
Allides halesus (Great Purp	ole Hairsfreak)		· — —	
			- + -	

ntial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

ø

Osmadonia tenetta

Paeonia californica

Poclocarya sp.

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago potogonico = PP

		THE COMMISSION CONTROL OF THE CALL
	Amsinckia menziesii	Character of Etal discount
6	Antimhimum coultorianum	Rencher's Fiddleneck Coulter's Snapdragon
0	Antimhinum nuttallianum	
e	Asclopias fascicularis	Nuttall's Snapdragen Narrow-leaf Mixweed
э	Boechera sp.	Rock Cress
:1	Calandrinia ciliata	Red Maids
o	Calechortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipes	Morning-glory
0	Camissonia sp.	Sun Cup
o	Castillejo exerta	Paintbrush
0	Ceulanthus heterophytius	San Diego Jewelfkower
С	Caulanthus simulans	Payson's Caulantinus
×	Ceanolitus cuneatus	Btrok Brush
X	Connothus greggii	Cup-leaf-filac
0	Ceanothus leucodarmis	Cheperral Whitethorn
o.	Chaenactis ertemisiifolia	White Pincushion
0	Cheenactis glabriuscuta	Yellow Pincushion
0	Clematis sp	Clematis
0	Collinsia conçolor	Southern Chinese Houses
۰,	Cordylanthus rigidus	Dark-tip Bird's Beak
Х	Coreopsis californica	California Coreopsis
مرث	Corethrogyne fileginifolia	Common Sand-aster
~~	Cryptantha sp.	Cryptantha
0	Cucurbita footidissima	Catabazilia
В	Descurainia op.	Tansy-mustard
a o	Dicentra chrysantha Dichelostemma capitatum	Golden Ear-drops
n	Dudleya sp	Sluo Dicks
 	Enimenanthe pendulifera	Ωudieya Whispering Belis
0	Eriastrum sp.	Woolly-stor
Ż		Goldenbush
6	Erigoron foliosus	Loafy Dalsy
O.	Eriodictyon trichocalyx	Halry Yerba Santa
¢	Eriogonum fasciculatum	Inland California Buckwhoat
D	Eriogonum sp.	Buckwheat
0	Eriophyllum sp.	Long-stem Golden-yarrow
×	Erodium cicularium*	Red-stem Storksbill
66	Erysismum capitalum	Western Wallflower
11	Eschschotzia californica	California Poppy
41	Eucrypta chrysanthemifolia	Spotted Hideseed
()	Euthamia occidentalis	Western Goldenrod
0	Gerrya veetchii	Canyon Slik Tassel
0	Gilia sp.	Gilla .
0	Gnaphalium Guillania lasiophylla	Cudweed California Mustard
0	Gutierrozia sarolhrae	Broom Matchweed
Ü	Heliotropium curastavicum	Salt Heliotrope
8	Hirshfeldia incana	Short-pod Mustard
\sim	Lemium emplexicaule	Henbil
<u>ي</u>	Lasthenia gracilis	Common Goldfields
э	Layle glandulosa	While Layia
У К	Lepidium sp.	Pepperweed
5	Linanthus bellus	Desert Beauty
0	Linanthus dicholomus	Evening Snow
O	Lonicera subspicata	Johnston's Honeysuckie
0	Melecothrix celifornica	California Dandelion
0	Malacothrix clevelandii	Cleveland's Malacothrix
0	Marah macrocarpus	Wild-cucumber
0	Marrublum vulgara*	Horebound
0	Matricaria matricarioldes	Common Pineapple-weed
C:	Montzelia yeatchiana	Veatch's Stick-leak
e 	Microsteris gracilis Microsteris sp	Signature Signature
0	Memophila menzeisii	Mankeyflower
n n	Orobanche hulbose	Small-flower Baby Blue Eyes Changing Browning

Chaparral Broom-rape

Orobanche bulbasa

(e)	Phacelie sp.	Phacelia
0	Pholisioma membranaceum	White Fiesta Flower
×	Plaglobothrys sp.	Popcomflower
0	Plantago patagonica	Desert Plantain
G	Platysteman californicus	Cream Cupa
0	Prunus Incifotla	Holly-leaf Cherry
D	Refinesquia neomexicana	Desert Chicory
υ	Ribes querceforum	Oak Gooseberry
0	Rorripe nasturtium-aquaticum	Water-cress
0	Rosa californica	California Rose
o	Saltugillo eustralis	Southern Gilja
0	Senecio californicus	Cafifornia Butterweed
0	Seriecio flaccidus .	Butterweed
o	Sidalces malvaellora	Checker-bloom
0	Sisymbrium sp.	Fumble Mustard
C	Solidego californica	California Goldenrod
יו	Stachyn ajugoides	Hedge-nettle
\mathcal{O}_{-}	Stephenomenia sp.	Wreathplant
o	Streptanthus campastris	Southern Jewelflower
3)	Stylocilne graphatioides	Everlasting Nest-straw
a	Tetradymia comosa	Catton-thorn
Э	Thysanocarpus sp.	Fringepod
σ	Trichostemma parishii	Mountain Stuecuris
9	Tropidocarpum gracite	Sfender Dobie-pod
7	Uropapous lindleyi	Silver Puffs
70	Vloin purpurea	Oak Yellow Violet
e		
c		
O	Other Flowering Plants:	highest the market
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r)	Rare Wildlife or Rare Plants:	. •
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Osmadenia

Pectocarya

California, Peony

·	$\frac{1}{2} \frac{1}{1} \frac{1}$
Project: Concentrix Solar Project Map #: 3 Survey Sxn:	QCB Protocol Survey # 2 of 5
TIME (24-lour) Temp (F*): Vitinal (avg/max) 1 % CC	
Start Start	
[72 (IS (2/3 <u></u>	
	dear which overcast discussioner
$\frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_2 \rangle}{ P_2 \rangle P_3 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_2 \rangle P_3 \rangle} = \frac{ P_1 \rangle \langle r_2 \rangle}{ P_3 \rangle P_4 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_3 \rangle P_4 \rangle} = \frac{ P_1 \rangle \langle r_2 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_3 \rangle P_4 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_3 \rangle P_4 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_2 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_2 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle P_2 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle \langle r_1 \rangle} = \frac{ P_1 \rangle \langle r_2 \rangle}{ P_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle \langle r_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle \langle r_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle \langle r_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle} = \frac{ P_1 \rangle \langle r_1 \rangle}{ P_1 \rangle} = P_1 \rangle \langle$	
End (500) 5/8 75%	clear peartry prescust cruzio afronte
Habitat On-site (circle), open soils, hilltops (ridges) rock outcrops) soil ou	ists, clay soits, qid roads, various nectar sources)
Nymphalidae (Brushfooted Butterfiles)	Hosperiidae (Skippers)
Euphydryas editha (Quino Chackerspot)	Enyonis funcialis (Funereal Duskywing)
Euphydryas chalcodona (Henno's Checkerspot)	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis briza (Sleepy Duskeywing)
Chlosyne gabbli (Gabb's Checkerspot)	Pyrgus alhescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesporia jubia (Jubia Skipper)
Junania coenia (Common Buckeye)	Politos sabutoti (Sandhill Skipper)
Variessa annabolio (West Coast Lady	Megathymidae (Glant Skippers)
Vanessa atalenta (Red Admiral)	Megalflyrmus yuccae (Yucca Grant Skipper)
Vanessa cardui (Painted Lady)	
Vanessa virginiurisis (Virginia Lady)	Other Buttorilles:
Nymphalis californica (California Tortoisesheil) Danaidae (Militweed Butterfiles)	Company Tracks 19 7 1
Danaus plexippus (Monarch)	
Danaus gilippus (Queen)	
Salyridae (Satyrs)	<u> </u>
Coenonympha californica (Common California Ringlet)	-
Pieridae (Whites, Sulphurs)	—{·— —
Pieris ropae (Cabbage White)	·+ - ·
Ponlia sisymbrii (Spring White)	+
Pontia backerii (Beker's White)	-
Pontia protodice (Common White)	— —
Anthocharis sare (Sara Orangetip) [[]	┌│
Anthochans cettrura (Felder's Orangetip)	`
Euchlog hyantis (Desert Pearly Marble)	· ·
Colias eurythemo (Orange Sulphur)	· - ·
Cohas harfordii (Harford's Sulphur)	─├─ ─
Nathalis (ole (Dainty Sulphur)	─! - · ·
Papilionidae (Swallowtails)	Notes:
Papilio polyxones (Desert Black Swallowfail)	· + · · · · · · · · · · · · · · · · · ·
Papillo euromodao (Pete swallowiail) Papillo Sp.	, † – — — — — — — — —
Lables intensivestern tider Swallowall	``† - · ·— — - ·— ·— —
Riodiniade (Metalmarks)	- - - - -
Apodemia mormo (Behr's Metalmark) 41 (1)	
cycaemose (Hair\$treak\$ and Blues)	-
Colestrine ladon (Spring Azure)	
Leptotes merina (Marine Blue)	
Brephidium exile (Wastern Pygmy Blue)	
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	
Hemiargus ceraunus (Edward's Blue)	_ +
Icaria acrion (Acmon Blue)	
Philotes sonorensis (Sonoran Blue)	_ 1
Callophrys augustinus (Brown Ellin)	
Callophrys perplexa (Perplexing Green Hairstreak)	<u> </u>
Strymon molinus (Gray Hairstreak)	
Allides frafesus (Great Purple Hairstreak)	
I	· _ · _ · _ · _ ·]

ध्येवी Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirchinum coulterianum = AC Collinsia concalor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

		VE COMINSIO CONCORDI E CL
0	· ···	Rancher's Fiddleneds
15	TOTAL COUNTY COU	Coulter's Snapdragon
:>	Antirchinum nuttallienum	Nuttail's Snapdragen
n	Asclopias fascicularis	Narrow-leaf Milkwead
.a	Boschera sp. Colandrinie cilieta	Rock Cress
0	Calactorius concolar	Red Mald's
.,	Calystegia longipes	Golden-bowl Manposa Lily
	Camissonia sp.	Morning-glory Sun Cup
o	Castilleja exerta	Paintórush
Ö	Caulanthus heterophyllus	San Diego Jewelflower
o	Caulanthus simulans	Payson's Caulanthus
o	Ceanothus cuneatus	Buck Brush
y	Ceanothus greggii	Cup-leaf-filed
o	Ceanothus leucodennis	Chaparral Whitethorn
ō	Chaenautis artemisiifotia	White Pincushion
O	Chaenactis glabriuscula	Yelfow Pincushion
0	Clematis sp.	Clematis
e e	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus Coreopsis californica	Dark-tip Sird's Beak
0	Corethrogyne filaginifolia	California Coreopsis
ÿ	Cryptenthe sp.	Common Sand-aster
r	Cucurbita foetidissima	Cryptantha Calabazilla
ዮ	Descurainta sp.	Tansy-mustard
å	Dicentra chrysantha	Golden Ear-drops
0	Dichelostemma capitatum	Blue Dicks
0	Dudleya sp.	Dudleya
0	Emmonanthe pendulifora	Whispering Bells
ļ,	Eriastrum sp.	Woolly-star
э	Ericanieria sp.	Goldenbush
:7	Erigeron foliasus	Leafy Daisy
0	Eriodictyon trichocalyx	Hairy Yerba Santa
ķ	Eriogonum fasciculatum Eriogonum sp.	Inland California Buckwheat
ur	Eriophyllum sp.	Buckwheat
Ü	Erodium eleutarium*	Golden-yarrow Red-stem Storksbill
ø	Erysismum capitatum	Western Wallflower
o	Eschscholzia californica	California Poppy
Ċ.	Eucrypta chrysenthemifolia	Spotted Hideseed
9	Euthemia occidentalis	Western Goldenrod
1:	Garrya vestchii	Canyon Silk Tasset
υ	Gilia sp.	Gil·la
0	Gnaphalium	Cudweed
υ 6	Guillenia lasiophylla	California Mustard
	Gulierrezia serodutue Heliotropium curassavicum	Broom Matchweed
	Hirshfoldia incuna	Salt Heliotrope
	1 amium amplexicação	Short-pod Mustard Repbil
5	Lasthenia gracitis	Common GoldSelds
	Lavia glendulosa	White Layis
)	Lopidium sp	Pepperweed
γ.	Linauthus bellius	Desert Seauty
)	Linanthus dichotomus	Evening Snow
3	Lonicere subspicete	Johnston's Honeyscokle
:	Malacothrix californica	California Dandelion
>	Malacothrix clevelandii	Cleveland's Malacothrix
	Marsh macrocarpus Marshium untress	Wild-cucumber
	Matrubium vulgaro* Mulricaria matricanuides*	Horehound
/	Mentzelia veatchiana	Common Pineapple-weed
,	Microsteris gracilis	Veatch's Stick-leak Stender Phiox
٠	Mimulus sp.	Monkeyflower
ζ.	Nemophilo nienzelsii	Small-flower Baby Blue Eyes
<u>`</u>	Orobancho bulbosa	Chaparral Broom-rang

Chaparral Broom rapo

Orobancha bulbosa

	··	
9	Osmadenia tenella	Osmadonia
0	Paecuis californica	California Peony
$^{\circ}$	Pectocarya sp.	Pectocarya
Х	Phaculis sp.	Phacesia
∂	Pholistoma membranaceum	White Fiesta Flower
ø	Plagiobothrys sp.	Popcomitower
Ċ	Plantago patagonica	Desert Plantain
0	Platystemon celifornious	Cream Cups
椒	Prunus ilicifolia	Holly-leaf Cherry
o	Rafinesquia neomexicana	Desert Chicary
۲.	Ribes quercotorum	Oak Gooseberry
0	Rompo nastudium-oquaticum	Water-cress
0	Rose celifornica	California Rose
a	Sallugilia australis	Southern Gilia
0	Senacio celifornicus	California Butterweed
ŋ.	Senecio fleggidus	Butterweed
C	Sidalcea mutvaeflorg	Checker-bloom
0	Sisymbrium sp.	Tumble Mustard
C	Solidago californica	California Goldenrod
O	Stochy's ajugoides	Hedge-notife
С	Stephanomeria sp.	Wrealhplant
a	Streptenthus campasiris	Southern Jeweltiower
×.	Stylocline gnaphalicides	Everlasting Nest-straw
	Tetradymia comoso	Cotton-thom .
i	Thysanccarpus sp.	Fringepod
0	Trichostemma parishii	Mountain Bluecorts
,	Tropidocarpum gracile	Slendar Dobie pod
5	Uropappus lindfeyl	Silver Puffs
i	Viols purpuros	Oak Yelkow Violet
)	,	
)	Other Flowering Plants:	•
	LIMBERTHUS FREEHOM	
٠		

Good Garage

K. 副版 -图 16 出 -

3 1/05/55 5 910.35

Rare Wildlife or Rare Plants: 1516-101 PARK 17 16 2 GK, 5LB Brown Lugara

Kilb15- 1 Plant 166103- 1 Plant Kilb16- 11 Plants Kilb18- 15 plants Kilb18- 35 plants

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	10 (le	pate: _0\/_0\\ / 11 _ GPS unit : 2
Project: Concentrix Solar Project Map #: 4 Survey S	$c_{\rm op}SD_{\rm tot}$	r POVIMA . 2
	6 CC	
		<u>- Sky</u>
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1000 10.5 11473.7 15		24.
123 11/2 25	7. 178 7E	
	7 huzi	h.T. — (1977) teellulay orunnasi daarah shawar
[30] TSU 10/4.4 70	7' WAT	
Em (400 See Margie's temps	<u> kanse</u>	Section ourses there seems
Habital On-site (circle), open soils, hilltops, ridges, rock bulcrops, so	oif crusts, c	clear parchy everonst drivate shower liay soils, old roads, various nectar sources
Nymphalidae (Brushfooted Butterflies)	Total	Total
Euphydryas etillia (Quino Checkerspot)		Hesperlidae (Skippers) Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedons (Henne's Chackerspot)	·	Frynnis Instis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	†	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	+	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	+ $-$	Pyrgus albescens (Checkered Skipper)
Phycrodes mylitte (Mylitta Crescent)	├ -	Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	<u> </u>	Polites sebuleti (Sandhil, Skipper)
Vanessa ennabella (West Coast Lady]	Megathymidae (Giant Skippere)
Vanessa elalante (Red Admiral)]	Megathymus yuocae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady) ∏	12	
Vanessa virginionsis (Virginia Lady) Nymphalis californica (California Todolseshell)	⊢	Other Butterflies:
Danaidae (Milhweed Butterfiles)	⊢ —	brangs sp. HT
Danaus plexippus (Monarch)	⊢ −	orange mount to write
Denaus gulippus (Queen)	· ·	ואיי <u>איז אוער</u> ל אועירו וון י
Satyridae (Satyrs)	<u> </u>	
Coenonympha celifornica (Common California Ringlet)	[— ·	├ [·] ─ ─ ─ ─ ─ ─ ┼ ┤
Pieridae (Whitos, Sulphurs)	† —	-
Pieris rapee (Cabbage White)	├	
Pontia sisymbrii (Spring White)	├	— — —
Pontiu beckeni (Beker's White)	 	├──────
Pontia protodice (Common White)	<u> </u> 4	├ - + -
Anthocharis sara (Sara Orangetip)		
Anthocharis cethura (Felder's Orangetip)	2	
Colles eurytheme (Orange Sulphur)	<u> (2</u>	
Colles harfordii (Herford's Sulphur)	l. —. I	
Nathalis kile (Dainty Sulphur)	<u>ا</u>	
Papillonidee (Swallowfalls)	}· —	Metas:
Papilio polyxenes (Desert Black Swallowtail)	\vdash \dashv	Notes: Blacktob BLATOT
Papilio eurymodon (Pale swallowtail)		CALI LASP BLAGOT
Papilio rutulus(Western Tiger, Swallowfail)	$\overline{}$	
Riodiniade (Metalmarks)	 	WCCP TO MAKE THE TOTAL THE
Apodemia mormo (Behr's Metalmark)	<u>पढ</u>	WAS THE COLOR TO THE THE
Lycsenidae (Hairstreaks and Blues)		CANDO
Cetastrina ladon (Spring Azure)		
Leptotes marina (Marine 8fue)		
Breptridium cxile (Western Pygmy Blue)		Wellen for the ward
Glaucopsyche lygdumus (Southern Blue/Silvery blue) \\ Herniargus ceraunus (Edward's Blue)	2	~ 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Icana acmon (Acmon Blue)	,,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Philotes sonorensis (Sonoran Bide)	५	(00 NO 2) 10 24
Callophrys augustinus (Brown Elfin)	$ \rightarrow$	
Callophrys perplexe (Perplexing Green Hairstreak)	·	ऑक फेट — — — — — — — — — — — — — — — — — — —
Strymon molinus (Gray Hairstreak)	- —	WE WE
Atlides hulesus (Great Purple Hairstreak)	— ·	provide through a write tool provide 124
	— †	CON PROCESTY
	<u> </u>	

stential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) instructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantaga patagonica = PP

_		n = AL C <u>allin</u> sia <u>concolo</u> r = <u>C</u>
_		
₹	Amsinokin menziesii	Rancher's Eddleneck
31	- ALTERNATIONS CONTROL TO THE CONTRO	Coulter's Snapdragon
٥	Antimhinum nuttellismum	Nuttall's Snapdragon
1.	Asclépias fascicularis	Narrow-leaf Milloweed
O	Boechera sp.	Rock Crass
0	Cafandrinia ciliata	Red Maids
٥	Calochortus concolor	Golden-bowl Mariposa Lily
17	Calystegia tongipes	Mo:ning-glory
O	Canvissonia sp.	Sun Cup
::	Castilleja exerta	Paintbrush
a	Ceulanitius heterophyllus	San Diego Jowelflower
O	Caulanthus simulans	Payson's Caulanthus
0	Ceanothus cuneatus	Buck Brush
0	Ceanothus gre ggii	Cup-leaf-lifac
а	Coanothus lev codormis	Chaparral Whitethorn
0	Chaenactis artemistitolia	White Pincoshion
U	Chaenactis glabriuscula	Yellow Pincushlon
0	Clomatis sp.	Clematis
o.	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidos	Dark-tip Bird's Beak
(1	Coreopsis californica	California Coreopsis
r.	Corethrogyne filaginifolia	Common Sand-aster
Ü	∕ Cryptantha <u>s</u> p	Cryptantha
n	Cucurbita foetidissima	Calabazilla
٥	Descurainia sp.	Tensy-mustare
2	Dicentra chrysantho	Golden Ear-drops
::	Dichelostemma capitatum	Blue Olcks
	Dudleya sp.	Dugleya
ö	Emmenanthe pendulitera Eriestrum sp.	Whispering Bells
0	Ericameria sp.	Woolly-star
o	Erigoron foliosus	Goldenbuah
IT.	Eriodictyan trichocatya	Leafy Daisy
9	Eriogonum fasciculatum	Hairy Yerba Santa Inland California Buckwheat
ç,	Еподопит вр.	Buckwheat
o	Eriophyllum sp.	Goldon-yarrow
ℯ	Erodium cicularium*	Red-stem Storksbill
ő	Erysismum capitatum	Western Wallflower
9	Eschscholzia californica	California Poppy
Ď.	Eucrypta chrysanthemitolia	Spotted Hideseed
ø	Euthamia occidentalis	Western Goldenrod
r :	Gerrya veatchii	Canyon Silk Tasset
O.	Gilia sp.	Gilja
0	Gn aph alaim	Cudweed
O.	Guillonia laslophytla	California Mustard
o	Guliefrezia sarothrae	Broom Metchweed
:1	Heliotropium curassavicum	Salt Heliotrope
o	Hirahfektia incena	Short-pod Mustard
۰,	Lamium amplexicação	Henbil
∿	Lasthenia gracilis	Common Goldfields
0	Layio glandulosa	White Layis
-	Lepidium sp.	Pepperweed
_	Linenthus belius	Desert Beauty
	Linanthus dichotomus	Evening Snow
	Lonicora subspicata	Johnston's Honeysuckle
:	Malacottrix californica	California Dandelion
	Malacothrix clevelandii	Cleveland's Malacothrix
,	Marah masrocarpus Marrubium vulgare*	Wild-cucumber
,	marrupiom valgare" Matricaria matricarioktos"	Horehound
,	Menizelia vealchianu	Common Pineapple-weed
	Microsteris gracilis	Vesich's Stick-leak
1	Mimulus sp.	Slender Phiox

Mookeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Mimulus sp.

Nemophila manzeişii

Orohanche bulbosu

0	Osmadenia tenella	Qsmaden/a
e	Paeonia californica	California Peony
a j	/ Pectocarya sp.	Pectocarya
V	Phocetia sp.	Phacelia ·
Ö	Pholistoma membranacuum	White Fiesta Flower
•	Plagiobothrys sp.	Popcornflower
n	Plantago patagonica	Desert Plantain
,	Platystemon californious	Gream Cubs
,	Prunus ilicifolia	Holly-leaf Cherry
>	Rafinesquia neomexicana	Desert Chicory
)	Ribes quercetorum	Oak Gooseberry
ì	Rottipa nasturlium-aqualicum	Water-cress
)	Rosa californica	California Rose
: ,	∕Saltugilis australis	Southern Gilra
/	Senecio celifornicus	California Butterweed
)	Senecio flaccidus	Butterweed
1	Sidalces melyacitora	Checker-bloom
)	Sisymbrium sp.	Tumble Mustard
	Solidago culifornica	California Goldenrod
	Stachys arugoides	Hedge-nettle
	Stephanomena sp.	Wreathplant
	Streptanthus campestris	Southorn Jewelflower
	Stylocline gruphalioides	Everlasting Nest-straw
•	Tetradymia comosa	Cotton-thorn
	Thysenocorpus sp.	Fringepod
	Trichoslemma parishii	Mountain Bluecuris
	Tropidocarpum gracite	Slender Dobie-pod
	Uropappus lindleyl	Silver Puffs
	Viola purpurea	Oak Yellow Violet
	Other Flowering Plants:	

Rare Wildlife or Rare Plants: 2

BCLBO (250 m) BCLBO = 20 BCLBO = 1 BCLBO = 1 BCLBO = 1 13.680621

took photos of Murgie's astrogatus

* sencetive not accurate of project boundary on eastern most side

1 -	•	tocol Survey — Field Data Sheet No bound	tary indit
Recorder Bonnie Kendlick SAdd't Porson: Ky	le I	1CR Dare: 4/5/11 GPS Unit: 11	_
Project: Concentrix Solar Project Map #: 3 Survey Sx	m: M.	→ E. QCB Protocol Survey # Z of 5_	
	•		i
1146 (24 hour) Yome (6'); Vand (avgimax) %:	2%	5hy	—
	0%	char punity average double shower	_
11:30 83.5 21/145 3	a l	See patchy overcast desire shower	_
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- 1:00 335 5.6/8.4 73	\rightarrow	Ejens Tractili Solvescoar quarge enemen	
<u> </u>	<u></u>		
Ens 4:00 :72.7 4.1/7.2 8	O \cdot	ration profits Covercusts, discade shower	
Habitat On-site (circle) (open soils hilltops, ridges 760k outcrops Soil	cousts (c)		
	Total		Total
Nymphalidee (Brushfooted Butterfiles)	Γ	Hesperiidae (Skippers)	
Euphydryas aditha (Quino Checkerspot)	•	Erypnis funeralis (Funereal Duskywing)),	
Euphydryas chalcadona (Henne's Checkerspot)		Enyonis tristis (Sad Duskywing)	고딕
Thosselia Identifa (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)	-1
Chlosyno californica (California Patch)		Erynnis briza (Słeepy Duskeywing)	1
Chiosyne gabbii (Gabb's Checkerspot)	- —	Pyrgus communis(Checkered Skipper)	
Physiodes mylitto (Mylitta Crescent)		Hesperin jubia (Jubia Skipper)	
Junopia coenia (Common Buckeye)		Polites sabuleti (Sandhill Skipper)	— I
Vanessa ennabella (West Coast Lady		Megathymidae (Glant Skippers)	
Vanessa alelania (Red Admiral)		Megathymus yuccae (Yucca Giant Skipper)	\dashv
Variessa cardui (Painted Lady)	<u> </u>	·	—i
Vanesse virginiensis (Virginia Lady)		Other Butterfiles:	
Nymphalis conformes (California Tortoiseshell)			2
Danaldao (Milkwood Butterflies)		Quakyning of (beatup) !	-
Danaus ploxippus (Monarch)		Change To ac 186 UII	9
Danaus gilippus (Queen)		Crangetip Ap, Will	
Satyridae (Satyrs)			
Coenonympha californica (Common Californ a Ringlet)	——	S 0 1 1 5 1	,
Piertdee (Whites, Sulphurs)	-	State Alls Sp. 1	!
Pieris rapas (Cabbage White)		large yellaw:	··
Pontia sisymbrii (Spring White)	· -	10 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	, ,
Pontia beckeril (Beker's White)	-	White op. //	7
Pontis prolodice (Common White)		Comment of the Commen	<u></u> , ·
Anthocharis sara (Sara Grangetip)		Six-spotte & Note 1	
Anthocharis cethura (Falder's Orangetip)	/	Deige May	 -
Euchloe hyaniis (Desert Peerly Marble)	-7	·	
Collas eurythome (Orange Sulphur)	/	·	
Colles harfordii (Harford's Sulphur)		·	
Nathalis iole (Dainty Sulphur)	-		
Papillonidae (Swalfowtalis)	— · - · –	Notes:	
Pepilio polyxonos (Desert Black Swallowtail)		00. 1 1 1 1 1 1 1 1	
Pepilio eurymedon (Pale swallowtail)		- FIRE TECRES YRONGED TOUSY	
Popilio ratulus(Western Tiger Swallowtail)	· ···	SCIP Jepus cary	\dashv
Riodiniade (Metalmarks)		SURA Sylvando:	
Apodemia mormo (Behr's Metalmark)		$V_{V_{V_{i}}}$	
	32	SA Q M/L	
Lycaenidae (Hairstreaks and Blues)		<u> </u>	
Celastrina ladon (Spring Azure)		- C/3*/ /1	
Leptotes marina(Marine Stue)			
Brophidium exile (Western Pygmy Slue)	<u> </u>	-	
Glaucopsycho lygdamus (Southern Blue/Silvery blue)	<u> </u>		
Hemiargus ceraunus (Edward's Blue)	·-		1
Ionna somon (Acmon Blus)			
Philotos sonorensis(Soneran Blue)		<u> </u>	
Свлорhrys augustinus (Brown Ell n)			
Callophrys dumetorum (Perplexing Green Hairstreak)			
Strymon melinus (Gray Hairstreak)	:		
Attides hatesus (Great Purple Hairstreak)			\neg

ıtlal Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail. PLEASE RECORD HOST PLANTS ON GPS See Codes Below: Antirrhinum coulterianum = AC Collinsla concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP Rancher's Floidleneck Osmadonia tenolia Osmadenia Coulter's Snapdragon Paeonia californica Californía Paony Nuttall's Snapdragon Pedlocarya sp. Pectocarya Narrow-leaf Milkweed : 6 Phacelia sp. Phacelia Rock Cress Pholistoma membranaceum White Fiesta Flower Red Maids Plagiobothrya sp. Popcomflower Golden-bowl Manposa Lily Plantago patagonica Desert Plantain Morning-glory Platystemon californicus Cream Cups Sun Cup Prunus iliaifolia Holly-feaf Charry Paintbrush o Refinesquia noomexicana Desert Chicary San Diego Jewelflower Ribes quercetarum o Oak Goosaberry Payson's Caulanthus Rompa nastudium-aquaticum υ Water-cress Buck Brush Rosa californica California Rose Cup-leaf-lilac Saltugilia australis Southern Glife Chaparral White:hom Senecio californicus: Californ a Butterweed White Pincushion Senecio Reccidus Butterweed Yellow Pincushion Sidalcea mulvaellora Checker-bloom Clematis. Stsymbrium sp. Tumble Mustard Southern Chinese Houses Solidago californica California Goldenrod Dark-tip Bird's Beak Stachys ajugoides Hedge-nettle California Coreopsis Stephanomeria ap. Wreathplant Common Sand-aster Streptanthus campostris Southern Jewelttower Cryptantha Stylocline gnaphalioldes Everlasting Nest-strew Calabaz/ila Tetradymia comosa Cotton-thorn Tansy-mustard Ċ. Тлувапосагриз вр. Fringepod Golden Ear-drops Trichostanıma parishii Mountain Bluecuris Blue Dicks Tropidocarpum gracile Slander Doble-pod Oudleya Uropappus lindleyi υ Silver Pulls Whisparing Bells 0 Viala purpurea Oak Yellow Violet Woody-star o. Goldenbush ō Leafy Daisy Other Flowering Plants: Hairy Yerba Santa rupinus concis Inland California Buckwheat Arubis pulehra Buckwheat Long-stem Golden-yarrow Red-stem Storksbill Western Wallflower ¢ η,

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Rapo Wildille or Rare Plants - wood at no Bh 1805, 06,01,00 for at each of. Bh as do 0213 = Not should puts. 13 plants 8h1609C, 10A, 11A, 12A, 13B

Amslnokla menziesii Antirrhimum coulterianum n Antimirium autalianum Asclepias fascicularis Boechera sp. Calandrinia cilieta Calochortus concolor. Calystegia longiges Cumissonia sp. Costilicja exerta Coulanthus heterophyllus Ceulanthus simulens ш Ceanothus cuneatus Ceanothus groggli Ceanothus toucodermis Chaenactis artemisiifolia Chaenactis glabriuscula Clemetis sp. Collinsia concolor Cordylanthus rigidus Ċ. Coreopsis callfornica Corethrogyne filaginifolie Cryptantha on 10,00 da Cucurbito foetidissima Descurainia sp. Dicentre chrysantha Dichelostemma capitatum Dudlaya sp. Emmenanthe pendulifera Eriastrum sp. Ericameria sp. Erigeron foliasus Eriodiciyon Irichocalyx Eriogonum fasciculatum Eriogonum sp. Enophyllum sp Erodium cicutarium* Erysismum capitatum Eschschotzie celifornice California Poppy Eucrypta chrysenthemilolia Spotted Hideseed Euthemia occidentalis Western Goldenrog Garrya veatchii Canyon Sifk Tasset Gliia sp. Gilia Gnaphalium. Cudweed Guillenia lasiophytia California Mustard Gullerrezia serothrao Broom Matchweed Heliotropium curassavicum Salt Heliotrope Hirshfoldia incena Short-god Mustard Lemium amplexicaule Henbit Lasthenia gracilis Common Goldfields Layla glandulosa White Lavia Lepidium sp. Pepperwaed Linenthus bellus Desert Beauty Linanthus dicholomus Evening Snow Lonicera subspicata Johnston's Honeysuckie Molacothnx californica California Dandellon Malacothrix develandil Cievelend's Malacothrix Marah macrocarpus Wild-cucumber o Marrubium vulgare* Horehound: Matricaria matricarioidos* r) Common Pineapple-weed

Vestch's Stick-leak

Chaparral Brocin-rape

Small-flower Baby Blue Eyes

Slender Phiox

Monkeyflower

13

Mentzelia veatchiana

Меторінія тваговії

Orobanche bulgosa

Microstens gracilis

Mimulus sp.

${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey -- Field\ Data\ Sheet}$

Recorder: 1) in Co	uffe@_)	Add1 Person:		_	Date: <u>5 Դրջու, Հօ \ </u> GPS Unit : <u> </u> <u> </u>	
Project: Concentrix So	lar Project_N	Лар #: <u>Ч</u> Sur	vey Sxn:	سيحد	CB Protocol Survey # 2 of 5	
THE (24-hour)	Tamp (F'):	Wind (avg/max)	% CG	Τ	Sky	٦
<u>8∞ 0830 HΩS</u>	68°F	6	MICH CLOUCS	 	Cean paliday protests druzal shower	1
00.00	70	8-> 1 miy	11	Ί		4
1000	73					Η
·		2 2 men	11		Cour parktry <u>evercost druzfo shower</u>	\dashv
11.00	<u> 75</u>	5/-> 4 mon	· ·			4
	77	9-> 4 men	**	.		↲
13.∞	17	TOUS EC-Z	30%		see: Faithy avertest arrove shower	╝
End 나타이	79	2->61MPH	50%		con pathy breited divin those	
Habitat On-site (circle); oper	n soils, hitltops,				lay soils, old roads, various nectar sources	_
Nymphalidae (Brushfooted	d Butterflies)		100		Hesperiidae (Skippers)	٦
Euphydryas editha (Quino				— † `	Erynnis funeralis (Funereal Duskywing)	-
Euphydryas chakedona ()		erspot)	1	-	Erynnis tristis (Sad Duskywing)	i
Thessalia leanira (Wright's	Checkerspot)		1		Erynnis propertius (Propertius Duskywing)	·ļ
Chlosyne californica (Calif	ornia Patch)		1	一	Erynnis brizo (S'eepy Duskeywing)	-
Chlosynė gabbii (Gabb's (1.	1	Pyrgus albescens (Checkered Skipper)	:
Phyckodes mylittu (Mylitta					Hesperia jubia (Jubia Skipper)	!
Junonia coonia (Common			<u> </u>	_ [Polites subuleti (Sandhill Skipper)	. :
Vanessa annabolia (Wost				''	Megathymidae (Glant Skippers)	
Vanossa atalanta (Red Ad				_	Megalhymus yuccae (Yucca Glant Skipper)	_
Vanessa cardui (Painted I			Z	<u>. </u>		_
Vanessa virginiensis (Virgi				- -	Other Butterfiles:	_:
Nymphalis californica (Ca		esnesi)	1	+	JUBA SKIPPER.	_;
Danaidae (M/Ikweed Butte Danaus plexippus (Monard		· · ·	-			į
Danaus gikppus (Queen)	÷124		- -	.	MODORED DOSKYWING (SEE SAO DOSKAWA)	İ
Satyridae (Satyrs)					CALIFORNIA Sourywine 5.	i
Coononympha californica	(Common Cali	fornis Ringlett	. 	-		\dashv
Pleridae (Whites, Sulphurs			· i	+		\dashv
Pieris repae (Cabbage Wi		· <u> </u>	<u>-</u>	+		
Pontie sisymbni (Spring W			· · · · · · · · · · · · · · · · · · ·	\top		
Pantia beckerii (Beker's W					· · · · · · · · · · · · · · · · · · ·	l
Pontia protodice (Commor	n White)				· · · · · · · · · · · · · · · · · · ·	寸
Anthocharis sara (Sara Or			្រ			;
Anthochans calhura (Felde			. [[.		\neg
Euchloe hyantis (Desert P.			17	<u>.</u>		
Colids ourythente (Orange						
Colias harfordii (Harford's			1	-4-		
Nathalis iole (Dainty Sulph				┵.		
Papilionidae (Swallowtalis Papilio polyxenes (Desert				- +	Notes:	:
Papilio eurymedon (Pale s		ranj	——— <u>}</u>	- }	1500 HOS, 76°F, WIND= 1-> 9 MIH, 70%.	
Papilio rutulus(Western Tx		1)	 - }	\vdash	1018 462, 42°1, MIND= 2014 WH 368 20065	٠.
Riodiniade (Metalmarks)	ger on allouten	~			· · · · · · · · · · · · · · · · · · ·	_
Apodemia mormo (Behr's	Metalmark)	· · · · · · · · · · · · · · · · · · ·	113	.		٠:
Lycsenidae (Hairstreaks a			- ''-	'		7
Celastrina ladori (Spring A			-		- -	İ
Leptotes marina (Marine B	lue)			\top		j
Brephidlum exile (Western	Pygmy Blue)			$\neg \vdash$	<u> </u>	j
Glaucopsyche lygdamus (Silvery blue)	·	$\neg \vdash$		j
Hemiargus ceraunus (Edw						j
Icaria acmon (Acmon Blue			<u>}</u> 9	⁻┌		•
Philotos sonorensis (Sono						.,
Callophrys augustinus (Bro						_;
Callophrys perplexa (Perp		lairstreak)	λ	Ţ		_;
Strymon melinus (Gray Ha				_	·-· ·-·	
Atlides halosus (Great Pur	pie mairstreak)	<u> </u>	<u> </u>	-	<u> </u>	Į

Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

use Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail,

LEASE RECORD HOST PLANTS ON GPS Sec Codes Below:

Microstens gracilis

Nemophila menzeisii

Orocanche hulbose

Mimulus sp.

Stender Phlox

Mankeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Intirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

		-AC COMMING CONCARD = CC	_ <u> </u>	mingo i glada - Cir Pidintago	potagonica = PP	-
	(Amsinckia menziesii)	Rancher's Fiddleneck	_	Osmadenia tenella	<u> </u>	<u> </u>
	Antirrhimum coulmnanum	Coulter's Snapdragon			Osmadenia	
4)	Antiirhinum nuttallianum	Nuttall's Snapdragen	0	. ocomo ocumentació	California Peony	
0	Asclepias fasciculans	Narrow-leaf Milkweed			Pectocarya Phacella	
0	Boochera sp.	Rock Cress		•	White Fiesta Flower	
o	Celondrinia ciliate	Red Maids			Popcomilower	
0	Calochortus concolor	Golden-bowl Mariposa Lify	1 .		Desert Plantain	
C	Calystegia longipas	Morning-glary	, I		Cream Cups	
0	Camissonia sp.	Sun Cup		Prunus ilicitolia	Holly-leaf Cherry	
0	Castilleja exerta	Paintbrush	0	Rafinesquia neumexicana	Desert Chicory	
D	Caulanthus heterophyllus	San Diego Jewelflower		Ribes quercetorum	Onk Gooseberry	
0	Caulenthus simulans	Payson's Caufanthus		Romipa nasturtium-aquaticum	Water-cress	
с С.	Ceanothus cunostus	Buck Brush	- 0	Rosa californica	Catifornia Rose	
0.	Canada and Brothing 1	Cup-feaf-lilac		Settugifia austrelis	Southern G lia	
0	Ceanothus leucoderinis Chaenactis artemisifolia	Chaparral Whitethorn	- 81	Senacio californicus	California Butterweed	
۵	Chaenachs glabriuscula	White Pincushion	- 0	Sonecio Reccidus	Bulterweed	
0	Clumatis sp.	Yotlow Pincushion	0	Sidalcea matvactiora	Checker-bloom	
n	Collinsia concolor	Clematis	- 6	Sisymbnum sp.	Tumble Mustard	
0	Cordylanthus rigidus	Southern Chinese Houses	0	Solidago californica	California Goldenrod	
ő	Coreopsis californica	Oark-tip Bird's Beak		Stachya ajunjoides	Hedge-netile	
:1	Corettrogyne filaginifolia	California Coreopsis	0	Stephanomeria sp.	Wreathplant	
0	Cryplantha sp.	Common Sand-aster		Streptanthus compostos	Southern Jewelllower	
5	Cucurbita foetidissima	Cryptantha	0	Stylocline gnaphalioides	Everlasting Nest-straw	
0	Descurainta sp.	Calabazilla	0	l'etradymia comosa	Cotton-thorn	
c	Dicontra chrysanthe	Tansy-mustard Golden Ear-drops		Thysanccarpus sp.	Fringepod	
0	Dicheloslemma capitetum	Blue Dicks	0	Trichostenime parishii	Mourtain Bluecuris	
a	Duolleya sp.	- Orde Dicks Dudieya	- I	Tropidocurpum gracile	Skinder Dobie-pod	
ъ	Emmenanthe pendulitera	Whispering Balls	٥	Uropanous linoleyi	Silver Puffs	
o.	Eriastrum sp.	Woolly-star	· ·	Viola purpurea	Oak Yellow Violet	
e .	Ericameria sp.	Goldenbush	* *			
o	Engaron foliosus	Leafy Daisy	0			
41	Erlodictyon trichocalys	Hairy Yerba Santa	0	Other Flowering Plants:		
o	Eriogonum fasciculatum	Inland California Buckwheat	0			
o.	Eriogonum sp.	Buckwheat	9			
O	Eriophyllum sp.	Golden-yerrow	11			
o	Erodium cicularlum	Red-stern Storksbill	°			
O.	Erysismum capitatum	Western Wallflower	6			
0	Eschschalzia californica	California Poppy	,	•		
U.	Eucrypta chrysanthemitolia	Spotted Hideseed	, ,			
	Euthamie occidentalis	Western Goldenrod		Rare Wildlife or Rare Plants:	•	
	Garrya vealchії	Canyon Silk Tasset		MCLAOI		
	Gilla sp.	Gilip .		LUC BZO!		
	Gnapholium	Cudweed	,	(MC 62 02		
0	Guillenia lasiophylla	Catifornia Mustard	Lie	MC 62 03		
r,	Guherrozia sarothrea	Broom Matchweed	l u	Mc8204		
	Heliotropium curessavicum	Salt Heliotrope	1 0	mcesos		
	Hirshfekha incana	Short-pod Mustard		Mcceb .		
	Lamium aniolexicaulo	Henbit .	0	1		
	Lasthenia gracilis	Common Goldfields	- 0			
	Lavia glandulosa	White Layia	:3			
	Lepidium sp.	Pepperweed	0			
	Linanthus bellus Linanthus dichotomus	Desert Beauty	0			
	Linaminus dicholomus Lonicera subspicata	Evening Snow	۰ ا			
	concera spespicata Malacothrix californica	Johnston's Honeysuckle	- 6			
	maracomnik camornica Molacothnix clovelandii	California Dandelion	G			
	минасовних слоченалал Магаћ тасгосегриз	Cleveland's Melecothnx	1 0			
	waran macrocarpus Marrubium vulgare*	Wild-cycumber	0.			
	Matricaria matricarinides	Harehound				
	Mentzelia vealchiana	Common Pineapple-weed Veatch's Stick-leak	د			
	Microstens gracilis	Vesion's Silick-Jesik Stender Oblav	· c			

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${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey -- Field\ Data\ Sheet}$

Recorder: [V.4VC] 2 V J Add Person:	Date: 4.5.11 GPS Unit: 12
Project: Concentrix Solar Project Map #: Survey Sxn:	QCB Protocol Survey # 2 of 5
TIME (24-hour) Temp (F*): Wind (avg/max) % CC	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	clear patchy svercus drazie shower
. (915 <u> 68</u> F <u> 25 3</u> 3%	isaar <u>(5400 hij) a</u> vercani <u>il</u> eizde kiro <u>wek</u>
- 1365 - 37 - 37 - 37 - 37 - 37 - 37 - 37 - 3	clear (patchy overcas) thanks showns
1360 1947 36 35%	alogy parchy avarents ricevio ahouse
1400 17° 6 6 15°	
	clear patahy crosses despiteshower
End	idear perchy invariant this allower
Habitet On-site (circle), open softs, hilltops, ridges, rock outcrops, soil crusts Tota	s. clay soils, did roads, various nectar sources
Nymphalidae (Brushfooted Butterfiles)	Hosporlidae (Skippers)
Euphydryas editha (Quino Checkerspot)	Erynnis funeralis (Funereal Obskywing)
Euphydryas chalcedona (Henne's Checkerspot)	Erynnis tristis (Sad Ouskywing)
Thessalie leanure (Wright's Checkerspot)	Erynnis propertius (Properlius Duskywing)
Chlosyne californica (California Patch)	Erynnis brizo (Şleepy Duskeywing)
Chlosyne gehbii (Gabb's Checkerspot)	Pyrgus communis(Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Неврела juhia (Jubia Skipper)
Junonia coenia (Common Buckeye)	Polites sebuleti (Sandhill Skipper)
Vanessa annabolla (West Coast Lady	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)	Megathymus yuccee (Yucca Glant Skripper)
Vanessa cardui (Painted Lady)	
Vanessa virginionsis (Virginio Lady)	Other Butterflies:
Nymphalis californice (California Tortoiseshell)	Common South County 1
Deneidao (Milkwood Butterfiles)	<i>j j</i>
Danaus ploxippus (Monarch)	
Danaus giliopus (Queen)	.
Satyridae (Satyrs)	
Coenanympha californica (Common Catifornia Ringlet)	
Pleridae (Whites, Sulphurs)	-
Pieris repae (Cabbage White)	
Portia sisymbrii (Spring White)	_}
Pontia beckerii (Beker's White)	<u> </u>
Pontia protodice (Common While)	50 00 00
Anthocharis sare (Sara Orangetip) Anthocharis cethura (Felder's Orangetip)	74.44.01
Euchloe hyantis (Desert Pearly Marble) Colles eurytheme (Orange Sulphur)	<i>W</i>
Colles Nerfordii (Herford's Sulphur)	
Nathalis iole (Dainty Sulphur)	
Papilionidee (Swallowtalis)	Natari
Papilio polyxenes (Desert Black Swallowtail)	Notes:
Papilio eurymedon (Pale swallowte I)	
Papilio ruttilus(Western Tiger Swallowtail)	
Ripdiniade (Metalmarks)	
	the second secon
Lycaenidae (Hairstreaks and Blues)	一大五十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
Celastrina ladon (Spring Azure)	14-1-16-16-16-16-16-16-16-16-16-16-16-16-1
Leptotes marina(Marine Blue)	
Brephidium exile (Western Pygnry Blue)	-
G/aucopsyche lygdamus (Southern Blue/Silvery blue)	
Hemiargus ceraunus (Edward's Blue)	
	had but but but
Philiptes sonorensis(Sonoran Blue)	14-14-11
Collophrys augustinus (Brown Elfin)	-
Callophrys dumetorum (Perplexing Green Heirstreak)	
Strymon melinus (Gray Hairstreak)	· · · · · · · · · · · · · · · · · · ·
Athdes halesus (Great Purple Hairstreak)	- <u> </u>
· · · · · · · · · · · · · · · · · · ·	-

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below.

Small-llower Baby Blue Eyes

Chaparral Broom-rape

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago potagonico = PP

	Antirrninum couiterianum	= AC Collinsia concolor =
₹	Amsıncına menzlesii	Rancher's Fiduleneck
ं	Antirrhimum coulterlanum	Coulter's Snapdragon
6	Antichinum nuttellienum	Nuttall's Snapdragon
O.	Asclepias fasciculeris	Narrow-leaf Milkweed
4	Boachera sp.	Rock Cress
ى -	Calandrinia cikata	Red Maids
0	Calochartus concolor	Golden-bowl Mariposa Lily
e.	Calystegia longipes	Morning-glory
34	/ _ ' . T . T'	Sun Cup
6	Castilleja exeria	Paintbrush
п	Caulanthus heterophytius	San Diego Jewelflower
υ	Caulanthus simulans	Payson's Caulanthus
a	Ceanothus cuneatus	Buck Brush
×	Ceanothus greggii	Cup-teaf-ldac
ິດີ	Ceanothus teucodernis	Chaparral Whitethorn
0	Chaenectis artemisidolia	White Pincushion
0	Chaenactis glabriuscula	Yellow Pincushion
0	Clemetis sp	Clematis
ъ	Collinsia concolor	Southern Chinese Houses
э	Cordylanthus rigidus	Dark-tip Bird's Beak
×	Coreopsis celifornica	California Coreopsis
6	Corethrogyne filaginifolia	Common Sand-aster
\	Cryptenthe sp	Cryptantha
30	Cucurbita foetidissime	Calabazilia
\mathscr{L}	Descurainia sp.	Tansy-mustard
~``	Dicentre chrysanthe	Golden Ear-drops
n	Dichelostemma capitimum	Blue Dicks
.,	Dudleya sp.	Dudleya
o	Emmenenthe pendulifera	Whispering Bells
5	Eriastrum sp.	Woolly-star
×	Ericameria sp. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Goldenbush
5	Erigeron foliosus	Leafy Daisy
c	Eriodictyon trichocallys	Hairy Yerba Şanta
0	Enogonum fasciculatum	Inland California Buckwhest
r)	Еподолит вр.	Buckwheat
o.	Enophyllum sp.	Long-stom Golden-yarrow
×	Erodium cicutarium*	Red-stem Storksbill
r.	Erysismum capitatum	Western Watiflower
ij	Eschscholzia celifornice	California Poppy
U	Eucrypta chrysanthemifolia	Spotted Hideseed
ຄ	Euthemia occidentalis	Western Goldenrod
э	Garrya veatohii	Canyon Silk Tasset
٥	Gilia sp	Gilia
٥	Gnaphallum	Cudweed
o	Guillenia lasiophylla	California Mustard
٢	Gulierrezia şarç!hraa	Broom Matchweed
٠	Heliotroplum curessaviçum Hirshletdia Incana	Şalf Heliotropa Shorl-pod Mustard
×	Lantium amplexicaule	Henbit
er November		Common Goldfields
Š	Lasthenia gracilis Layie glandulosa	White Layia
X .	Lepidium sp.	-
:2	Linanthus belius	Pepperweed Desert Beauty
9	Linanthus dichotomus	-
ى ق	Lonicera subspicata	Evening Snow Johnston's Honeysuckie
ن	Malacothrix californica	Catifornia Dandelion
0	Malacothrix clevelandii	Cleveland's Malacothrix
	Mareh mecrocarpus	Wild-cucumber
0	Marrubium vulgere*	Horehouse Horehouse
G G	marruoium vuigera" Matricaria metricarioides"	Common Pineapple-weed
u G	Mentzetia veetchiana	Veatch's Stick-leak
6	Microsteris gracilis	Slender Phiox
5	Mimulus sp.	Monkeyflower
-	Namanhia measaich	Secoli device Below Plus Evec

Nemophita menzeisii

Orobanche bulbosa

ç	Osmadenia tenella	Osmadenia
Li	Paeonia californica	California Peony
×	Pedocaya sp.	Pectocarys
ά,	Phacelia sp.	Phacelsa
2	Pholistoma membranaceum	White Fiesta Flower
×	Plagiobothrys sp.	Papamflower
o.	Plantago patagonica	Desert Plantain
o.	Platystemon californicus	Cream Cups
ō.	Prunus incifotta	Holly-leaf Cherry
o	Rafinesquia neomoxicana	Desert Chicory
5	Ribes quercelarum	Oak Gooseberry
ō	Rompe nestudium-equeticum	Water-cress
0	Rosa californica	California Rose
Q.	Saltugilla australis	Southern Gifia
Κ.	Sanecio californicus	California Buttenveed
0	Senecio fleccidus	Butterweed
c.	Sidalcea malvaellora	Checker-bloom
×	Sisymbrium s p.	Tumble Musterd
::	Solidago californica	California Goldenrod
4	Stachys ejugoides	Hedge-nettle
e.	Stephanomeria sp.	Wreathplant
۰,	, Streptanthus campestris	Southern Jewelflower
~	Stylocline gnaphalioides	Evenasting Nest-straw
3	Tetradymia comosa	Cotton-thorn
y .	Thysanocarpus sp	Fringepod
e.	Trichoslemma parishii	Mountain Bluecorls
٥.	Ттрібосатулт дласі/в	Stender Dobie-pod
4	Uropeppus lindloyi	Sliver Puffs
0	Viola purpuma	Oak Yellow Violet

Other Flowering Plants:

Phis evata

Rero Wildlife or Rero Plants:

Astragalus douglass perstridus

MMENDI-11

Black Jackrabbit

MM BDOI-03

Geva = a viscida

MMGNOIM

Liantus bellus

MMLBOI

Lathyrus & Splendons

MMLSOI

2

Recorder: State Rusk Add'i Person:		Date: <u>- 4 - 5 - 1</u> G	iP\$ Unit :	2_
Project: Concentrix Solar Project Map #: 3 Survey	Sxn:	QCB Protocol Survey #	of	<u> 5</u> .
TIME (24-hour) Temp (F*): Wind (avg/max)	N CC	Sky		
[<u>Start</u>		c.ear <u></u>	6FlOwer	
- 0800 61 1/2 1	<u>(5</u>	close parking overcass ofices	Shower	
	<u> </u>	cose gridly swingshi dhade	STATION	- 7
$\begin{array}{c c} & 10^{16} \\ \hline & 10^{16} \\ \hline & 21^{16} \\ \end{array} \begin{array}{c c} & 7^{16} \\ \hline & 7^{1} \\ \hline & 8^{1} \\ \hline \end{array} \begin{array}{c c} & 1 \\ \hline & 1 \\ \hline \end{array}$	5	cear (milcly) overcast drazin	alternation of	. 1
124:30 172 1/14 1	5i	dear (felicity) overcast druxto	shower	
	. —	clear painty overcust drizzle	shower	
and 15.90 70 7/4 H	5	clear (painty) oversist erocks	shower	
Habitat On-site (circle): open soils, hilltops, ndges, rock outcrops.				
Nymphalidae (Brushfooted Butterflies)	Ţ <u>otal</u>	Hesperiidae (Skippers)		Total
Euphydryas edillia (Quino Checkerspol)	i	Erynnis furieralis (Funereal Duskywing) !/		12-
Euphydryas chatcedonu (Henne's Checkerspot)		Enynnis tristis (Sad Duskywing)		~
Thossalia leanira (VVright's Checkerspot)		Erynnis propertius (Propertius Duskywing)		<u> </u>
Chlosyne californica (California Patch)	<u> </u>	Erynnis brizo (Steepy Duskeywing)		$\perp \perp \perp 1$
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus afbescens (Checkered Skipper)		
Phydiodes mylitla (Mylitta Crescent)		Hosperia jubia (Jubia Skipper)		i
Junonia coonia (Common Buckeye) Vanessa annebello (West Coast Lady	· —	Polites sabuleti (Sandhill Skipper) Megathymidae (Glant Skippers)		<u> </u>
Vanossa atalanta (Red Admiral)	 	Megathymus yuccae (Yucca Giant Skipper)		┿
Venosse cardui (Painted Lady)	-} —	Indignistrate Andree (Legal Citate anipper)		· .
Vanassa virginionsis (Virginia Lady)	 -	Other Butterflies:		i - i
Nymphalis californica (California Tortoiseshell)	<u> </u>			! — i
Danaldae (Milkweed Butterflies)]		
Danaus plexippus (Monarch)	<u></u>]		Τ
Danaus grippus (Queen)	 .			
Satyridae (Satyrs) Coenonympha californics (Common California Ringlet)	· .—	 		i
Pleridae (Whites, Sulphurs)				├ -¦
Picris rapae (Cabbage White)		···		
Pontia sisymbni (Spring White)	j ·—	 		+ ∵ i
Pontia beckerii (Beker's White)	 		_	
Pontia protodice (Common White)	<u> </u>			
Anthocheris sera (Sara Orangelip)	<u> 182</u> .			Ĭ
Anthochuris cettura (Felder's Orangelip)	.	<u> </u>		
Euchloo fryuntis (Desert Pearly Marble) Colias eurytheme (Orange Sulphur)	·	 <u>-</u>		1
Collas harlordii (Harford's Suiphur)	- -	·		┼ ┤
Nathalis iole (Dointy Sulphur)	+-		. –	┼
Papilionidae (Swallowtails)	+	Notes:		+∵
Papilio polyxenes (Desert Black Swallowfall)	1	1. Driving That The avoid of the	JA / No.	
Papilio eurymedon (Pale swalfowtail)		L WAND OF CENTRAL	~~	' -⊢
Popilio rututus(Western Tiger Swallowtail)				_ '-1
Riodiniade (Melalmarks)	 i			<u> </u>
Apodemia mormo (Behr's Metalmark) [[] Lycaonidae (Hatrstreaks and Blues)	14_	— ——·		վ. ↓
Celastrina ladon (Spring Azura)	:	 _ · ·		┼ ┈ ┤
Leptotes merina (Marine Slue)	· -	 		
Brephidium exile (Western Pygmy Blue)	† -	 · · · ·		┿┈ ┤
Glaucopsycho lygdamus (Southern Blue/Silvery blue)	1 .			+
Heminingus cereurius (Edward's Blue)		<u> </u>		
Icaria semon (Aemon Blue)]	3	ļ. <u> </u>		
Philoles sonorensis (Sanoran Blue)				<u>.</u>
Callophrys augustinus (Brown Elfin) Callophrys perplexa (Perplexing Green Halrstreak)	 -			
Strymon molinus (Gray Hairstreak)	+			
Allidos holosus (Great Purple Hairstreak)	· · · · · ·	 		
The state of the s		 		-

frential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Linanthus dichotomus

Malacothrix californica

Mulneothrix elevelandii

Matricaria matricarigidas*

Lonicora subspicata

Marah macrocorpus

Marrubium vulgare*

Mentzelia veatchiuna

Microsteris gracitis

Nemophila menzeisii

Orobanche bulbosa

Mintulus sp.

Evening Snow

Wild-cucumber

Slender Philox

Monkeyflower

Horehound

Johnston's Honeysuckie

Cleveland's Malacothrix

Common Pineapple-weed

Small-flower Baby Blue Eyes

Chaparral Broom-rape

California Dandelion

Veatch's Stick-leak

<u> </u>			
Amsinckia menziesii	Rancher's Fiddleneck	· Osmadenia tenella	Osmadenia
Antirrhimum coulterianum	Coulter's Snapdragon	 Pagonia californica 	Caldornia Peony
Antimhinum nuttallianum	Nutrali's Snapdragon	 Pectocarya sp. 	Pectocarya
Asclepias fascicularis	Narrow-leaf Milkweed	 Phaceka sp. 	Phaceila
Boechera sp.	Rock Cress	y Pholistoma membranaceum	White Fiesta Flower
Calandrinia cilieta	Red Maids	Plagiobothrys sp.	Popcoraflower
Calachortus concolor	Golden-bowl Mariposa Lily	 Plantago patagonica 	Desert Plantain
Colyslogia longipes	Morning-glory	 Platystemon californicus 	Cream Cups
_Cemissonia sp.	Sun Cup	Prenus ilicifolia	Holly-leaf Cherry
Castilleja exorta	Paintbrush	○ Rafinesquia negmexicana	
Catilanthus heterophyllus	San Diego Jewefflower	n Ribes quercetarum	Desert Chicory
Caulanthus simulans	Payson's Caulanthus		Oak Gooseberry
Ceanothus cuneatus	Buck Brush	Rorripe nesturtium-aquaticum	Water-cress
Ceanothus greggii	Cup-leaf-lilac	Rosa californica	California Rose
Ceanothus laucadermis	Chaparral Whitelborn	 Saltugilia australia 	Southern Glia
Cheenaclis artemisiifolia	White Pincushion	 Senecio californicus 	California Butterweed
Chaenactis glabriuscuta	Verta Pincushion	 Senecio flaccidus 	Butterwead
Cientatis sp.		 Sidalcea malvaelfora 	Checker-bloom
	Clematis	∘ Sisy mo rium sp.	Tumble Mustard
Collinsia concelor	Southern Chinese Houses	 Solidego cutifornice 	California Goldenrod
Cordylanthus rigidus	Dark-tip Bird's Beak	 Stachys ajugoidus 	Hedge-net(le
Corenpsis californica	California Coreopsis	 Stephenomeria sp. 	Wreathplant
Corethrogyne fileginifolis	Common Sand-aster	 Streptanthus campostris 	Southern Jewalltower .
Cryptenthe sp.	Cryptantha	 Stylocline graphalioides 	Everlasting Nest-straw
Cucurbita foetidissime	Calabazil:a	∇etradymia comosa	Catton-thorn
Descurninia sp.	Tansy-mustant	 Thysanocarpus sp. 	Fringepod
Dicentra chrysentha	Golden Ear-drops	 Trichostemma paristrii 	Mountain Bluecuris
Dichelostemma capitotum	Blue Dicks	n Tropidocarpum gracile	
Dudleya sp.	Dudleya	Uropappus lindleyi	Stender Ooble-pod
Ernmenanthe pondulifera	Whispering Bells		Silver Poffs
Eriastrum sp.	Woolly-star	,	Oak Ye'low Violet
Erigameria sp.	Goldenbush	0	
Etigeron foliosus	Leafy Daisy	°	
Eriodictyon trichocalyx	Hairy Yerba Santa	 Other Flowaring Plants; 	1 1 4 12 2 1 1
Eriogonum fesciculatum	Inland California Buckwheat	" Castilleja utilinis "	4 introduct clusts
Елодолит sp.	Buckwheat	5 000	10 VAdius of BOS 0
Erlophytlum sp.		4.	
Enophyrium sp. Erodium cicutarium*	Golden-yarrow	a .	
	Red-slem Storksbill	9	
Erysismum capitatum	Western Wallflower	ο .	
Eschscholzia californica	California Poppy	0	
Eucrypta chrysanthemifolia	Spotted Hideseed	0	
Euthamia occidentalis	Western Goldenrod	 Rare Wildlife or Rare Plants; 	
Garrya veatchii	Canyon Silk Tassel	(3	
Gilie sp	Gilia		
Gnaphalium	Cudweed		
Guillenra lusiophylla	California Mustard		
Gulierrezia sarothrae	Broom Matchwead	0	
Haliotropium curassavicum	Salt Heliotrope		
Hirshfeldin incans	Short-pod Mustard	-1	
Lamium amplexicaule	Henbit	0	:
Lasthenia gracilis	Common Goldfields	٥ ا	•
Layia glandulosa		0	
- •	White Layia	٥	
Lepidium sp.	Papperweed		
Linanthus bellus Linanthus disholomus	Desert Beauty	1>	

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Chr.	 ,	Date: 4-5-201 GPS Unit: 10
Recorder / KO / JUN 1907 Add'l Person:		Date: To the GPS Unit:
Project. Concentrix Solar Project Map #: 4 Survey Sx	<r< td=""><td>gCB Protocol Survey# 2 of 5</td></r<>	gCB Protocol Survey# 2 of 5
Project. Concentrix Solar Project Map #: 7 Survey Sx	31	g V QCB Protocol Survey # - G 5
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l	🕂	Cear pretty overnad drazie shower
End		Gear patchy overcasi dazzio shower
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil	crusts.	clay soils, old roads, various nectar sources
	Total	Total
Nymphalidae (Brushfooted Butterfiles)		Hesperiidae (Skippers)
Euphydryas adithė (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Chackerspot)	:	Erynnis tristis (Sad Duskywing)
Thessalia fearire (Wright's Checkerspot)		Erynnis propertius (Propertius Ouskywing)
Chlosyne californica (California Patch)	: :	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	:	Pyrgus albescens (Checkered Sk pper)
Phyciodes mylitta (Mylitta Crescent)	į	Hespena jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	7	Polites sabilleti (Sandhili Skipper)
Vanessa annahella (West Coasi Lady j1, a Ca. \\\ △)	Megathymidae (Giant Skippers)
Vanessa afalanta (Red Admiral)	<u></u>	Megathymus yuccae (Yucca Giant Skipper)
Vimesse cardui (Painted Lady)		
Vanessa virginiensis (Virginia Lady)		Other Butterfiles:
Nymphalis californica (California Tortoisestiali)		
Danaidae (Milkweed Butterfiles)	<u> </u>	
Danaus plexippus (Monarch)	l	
Daneus gilippus (Queen)	l-	<u> </u>
Satyridae (Satyrs)		· · ·
Coentritympha californica (Common California Ringlet)		
Pleridae (Whites, Sulphurs) Prens rapae (Cabbage White)		<u> </u>
Pontio sisymbrii (Spring White)	ŀ _	
Pontia backerii (Baker's White)	-	· -
Pontia protodice (Common White)		
Anthocharis sara (Sara Orangetip)		· · · · · · · · · · · · · · · · · · ·
Anthocharis cethura (Felder's Orangetip)		
Euchloe fiyantis (Desert Pearly Marble)	E-	
Collas eurytheme (Orenge Sulphur)	~~	- -
Colas harfordii (Harford's Sulphur)		
Natholis Jole (Dainty Sulphur)		
Papilionidae (Swallowtalls)		Notos:
Papilio polyxenos (Desert Black Swallowtail)	.	4
Papilio eurymodon (Pale swallowtail)	/-	Girls HOLE, CORP, BISP CASA TUY
Papilio rutulus(Western Tiger Swallowtail)	'	- 2000 - 1000 -
Riodiniade (Metalmarks)	<u> </u>	WENT, COUT CASA,
Apodemia monno (Behr's Metalmark)	663	+ Werry Cher Charles
Lycaenidae (Hairstreaks and Blues) (Hairstreaks and Blues)	- (2)	†· · · · i
Celastrina ladon (Spring Azure)	-	· · · · · · · · · · · · · · · · · · ·
Leptotes manna (Marine Blue)		
Braphidium exile (Western Pygmy Blue)		·· · · · · · · · · · · · · · · · · ·
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	ļ.——.	•
Hemiargus ceraunus (Edward's Biue)		•
Icaria acmon (Acmon Blue)	<u> </u>	• " :
Philotos sonorensis (Sonoran Blue)	i	i
Caltophrys augustinus (Brown Elfin)	[
Callophrys perplaxa (Perplaxing Green Barrstreak)	[
Strymon melinus (Gray Hairsfreak)		<u> </u>
Attides Italiosus (Great Purple Hairstreak)	[
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ual Neclaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

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Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Collinsia concolor = CC | Cordylorithus rigidus = CR | Plantago patagonica = PP

Antirchinum coulterionum = AC Amsinchia menziesii Antirrhimum coulterlanum Antimhinum nuttaltianum Asclopias Inscigularis Boochera sn. Calandrinia citiata Calochortus concolor Catystogia longipes Camissonia sp. Castilleja exerta Caulanthus heterophylius Caulanthus almulans Coanothus cuneatus Ceanothus graggii o. Ceanothus teucodernis Choenactis ertemisidalia Chaenactis glabriuscula Clematic sp 6.3 Collinsia concelor Cordylanthus agidus Carpopsis californica Corethrogyne fileginifolia Cryptunthe sp. Cucurbita foetidissima Doscurainia so. Dicentra chrysontha Dichelostemma capitatum Durlleya sp. Emmenanthe pendulifers 0 Ċ: Eriastrum sp. Ericamenta sp. Engeron foliosus 0 Eriodictyon tricnocutys: Eriogonum fasciculatum Eriogonum sp. Eriophyllum sp. Erodium clcularium* Erysismum capitatum Eschschutzie celifornice Eucrypta chrysanthemitoliu Euthemia occidentalis: Garrya veatchii: Gilia sp. ð n Gnaphalium Guillonia tasiophylla D Gulierrezia sarothrae Heliotropium curassavicum Hirshfeldie incana Lamium amplexicaule Lasthonia gracilis Layin glandulosa. Lepatium sg. Unanthus bollus Linenthus dichetomus Lonicere subspicate Malacothrix californica ο. Molecothrix elevelandii Магаћ таслосатрив Märrubium vuigere* C. Ó Multicaria matricaricides" Mentzelia veetchiana D. Microstoris gracilis Mimulus sp.

Nemophila monzeisii

Orobanche bulbosa

Rancher's Flddlenack Coulter's Snapdragon Nottali's Snapdragon Narrow-leaf Milkweed Rock Cress Red Maids Golden-bowl Maripose Lily Morning-glory Sun Cup Paintbrush San Diego Jewattower Payson's Cautanthus Buck Brush Cup-leaf-lilac Chaparral White:horn White Pincushion Yellow Pincushion Clematic Southern Chinese Houses Dark-tip Bird's Beak California Coreopsis Common Sand-aster Cryptantha Calabazila Tansy-mustard Golden Ear-drops Blue Dicks **Dudleya** Whispering Bolls Woolfy-star. Goldenbush Lealy Dalsy Hairy Yerba Santa Inland California Suckwheat **Buckwheat** Golden-yarrow Red-stem Storksbill: Western Wallflower California Poppy Spotted Hideseed Western Goldanrod Canyon Silk Tasset Gilia Cudweed California Mustard Broom Matchweed Salf Heliotrope Short-pod Mustard Hepbit Common Goldfields White Layla Pepperweed Desert Beauty Evening Show Johnston's Honeysuchie California Dandelion Cleveland's Malacothrix Wild-cocumber Horehound Common Pineapple-weed Vealch's Stick-leak Slender Phlox Monkeyfower Small-flower Baby Blue Eyes

Chaparral Broom-rape

Osmadenia tenella Osmadenia Pagonia californica 0 California Peoply :1 Pectocarya sp. Pectocarya Phacelia so. Phacelia Pholistoma membranaceum White Fiesta Flower Plagiobothrys sp. Popcomflower. Plantago patagonica Desert Plantain Platystemon californicus Cream Cups Prunus illeifolia :: Holly-leaf Cherry ø. Rafinesquia neomexicana Desert Chicary Ribes quercetorum a Oak Gooseberry Rorripa nasturtium-aquaticum Water-cress . Rosa culifornica Ö California Rose Salfugilla australia Southern Gifia ٥ Sonacio colifornicus California Butterweed o Senecio flaccidus Butterweed Sidotcea matyaettora Checker-bloom CT. -Sisymbdum sp. Tumble Mustard o Solidago culifornica California Goldenrod Stachys njugoulos o Hedge-nettle Stophanomeria sp. Wreathplant Streplanthus campostris Southern Jewelllower Stylocline unaphalioides Everlasting Nest-straw Tetradymia comosu Cotton-thorn Піукапосатрив вр. Fringépod Trichostemma parishii Mountain Bluecurls Tropidocarpum gracile Slender Dabia-pod Uropapous lindleyi Silver Puffs Viola pumurea Oak Yellow Violet Other Flowering Plants:

Rare Wildlife or Rare Plants:

AF WW Tail 01: I Robull western Whist sel

Recorder: Can Bh (MM) Add'l Person:	•	Date: 4/14/1 GPS Unit:
Project: Concentrix Solar Project Map #: Survey 8	Sva:	QCB Protocol Survey # 3 of 5
1 " - " - " - " - " - " - " - " - " - "	$\overline{}$	OIOIS
Time (24-hour) Temp (F1: Wind (avg/max)	<u> </u>	Sky
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10. ∞ (3° 11 -	ter	com patchy overtast cozale shower
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End :	i	clear potchy overtast enzyle shower
Habitat On-site (circle); open soils, hilliops, ridges, rock outcrops, s		day soils, old roads, various nactar sources
Norman alida a (Buranta et al Busta et al	Total	Total Total
Nymphalidae (Brushfooted Butterflies)		Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)		Erynnis funaralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspot)		Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)		Etynnis propertius (Propertius Duskywing)
Chlosyne californico (California Patch)		Erynnis brizo (Sloepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	!	Pyrgus elbescens (Checkered Skipper)
Phyciodes mylitte (Mylitta Crescent)		Hespana jubia (Jubia Skipper)
Junania coenia (Common Buckeye)	I	Polites sabuleti (Sandhill Skipper)
Vanossa annabella (West Coast Lady	',	Megathymidae (Glant Skippers)
Vanossa atalanta (Red Admiral)	Τ.	Megethymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	- †·	
Vanessa virginiensis (Virginia Lady)	† "	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	i 	
Daneidae (Milkweed Butterflies)	+	
Danaus plexippus (Monarch)	···	
Danaus glippus (Queen)		!
Satyridae (Satyrs)	—	'
Coencrympha californice (Common California Ringlet)	 	
Ploridao (Whitos, Sulphurs)	<u> </u>	
Pierls rapar (Cabbage White)	.——	Whate united Somme
	<u> </u>	(in the second of the second
Pontia sisymbol (Spring White)	! —	San H. 3943
Pantia beckerii (Beker's White)	_	Nespa references
Pantia protodice (Common White)		There
Anthocharis sara (Sara Orangetip)	4	Comment Ked that
Anthochanis cethura (Felder's Orangelip)	<u> </u>	Sale throated spune
Euchloe hyantis (Desart Pearly Marble)	₽	<u>'</u>
Collas euryttreme (Orange Sulphur)		
Colias harfordii (Harford's Sulphur)	Ī .	
Nathalis iole (Dainty Sulphur)		<u> </u>
Papilionidas (Swallowtalis)	"	Notos:
Papilio polyxones (Desert Black Swallowrail)		138 (D 9) - 1 SALKCE - 16 Sel C:
Papilio eurymedon (Pale swallowtail)		48.0000 -12 5000 5 -1 5000
Papilio rululus(Western Tiger Swallowtail)		TAMOTT ROLLS 20 ADISTS TO
11 الكار المحل السلطان (Metalmarks) الكار المحل السلطان السلطان المحلال المحلول المحل	لمد وترسيقا	5% ADA
Apodemia mormo (Behr's Metalmank)	المياري	25 Z867 T
Lycaenidae (Mainstreaks and Blues)		3 10 5H-1 Walk 5 5
Cetastrina ladon (Spring Azure)) -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Leptotes manna (Manne Blue)	┼──… ├	602 15 10 10 10 10 10 10 10 10 10 10 10 10 10
Brephidium cxile (Western Pygmy Blue)	├ ─┈	75 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Glaucopsyche lygdamus (Southern Blue/Silvery blue)		SENDIE MONEY
	∤ —	1/2 AL SO 1 1 1/2 BLOID
Hemiargus cersunus (Edward's Blue)	; 	50 KD (100-1) 10 CB (20-1)
Icaria acmon (Acmon Blue)	├	1 John Colombia Silvadia S
Philotes sonorensis (Sonoran Blue)	<u> </u>	373 774 Solin 38
Callophrys augustinus (Brown Elfin)	i	5/3/1009-7 85 LB 14-2
Callophrys perplexa (Perplexing Green Hairstreak)	[46401U-1 454013-4-
Strymon melinus (Gray Hairstreak)	l "	13/4011-2 30/6/F-7
Allides halosus (Great Purple Hairstreak)	ˈˈ	1565 04-15 266 36 D
	i i	TROPOLET DOLPH ALLE CARCELLES
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		200109-7 (very to be
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		MILLORAS MAST

Instructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia cancolor = CC Cardylanthus rigidus = CR Plantago patagonica = PP

	·	
ಕರ	Amsinckia menziesii	Rancher's Fiddleneck
, (C)	Antirrhimum coulterianum	Coulter's Snapdragon
6	Antimhinum nuttallianum	Nettali's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milloweed
	Scechere sp.	Rock Cress
¥	Calandrinia ciliata	Red Maids
	Celochortus co ncolor	Golden-bowl Mariposa Lily
vi	Calystegia longipes	Marning-glory
0	Camissonia sp.	Sun Cup
o	Castilicia exerta	Paintbrush
0	Caulanthus heterophyllus	San Diego Jewelflower
0	Caulanthus simulans	Payson's Caulanthus
o	Ceanothus cuneetus	Buck Brush
; ¢	Ceanolhus greggii	Cup-leaf-lilac
7	Coanothus teucodermis	Chaparral Whitelhorn
0	Cheenactis ortemisidelia	White Pincushian
n	Chaenacks glabriuscula	Yellow Procustion
э	Clematis sp	Ciematis
0	Collinsia concolor	Southern Chinese Houses
v.	Cordylanthus rigidus	Dark-tip Sird's Beak
×	Coreopsis californica	California Coreopsis
6	Corethrogyne fileginifolia	Common Sand-aster
ij	Cryptantha sp.	Cryptantha
9	Cucurbila foetidissima	Calabazil!a
0	Descurainia sp.	Tansy-mustard
Э	Dicentra chrysantha	Golden Ear-dicps
0	Dichelostemma çapitatum	Blue Dicks
C.	Dudleya sp.	Dudleya
0	Emmonanthe pendulifera	Whispering Bells
区	Eriastrum sp.	Woofly-star
Υ.,	Ericameria sp.	Goldenbush
Ξ.	Erigeran foliosus	Leafy Daisy
o	Eriodictyon trichocalys	Hairy Yerba Santa
0	Eneganum fasciculatum	Inland California Buckwheat
c	Егіодолит sp.	Buckwheat
Ö.	Eriophyllum sp.	Golden-yarrow
	Erodium cicutarium*	Red-stem Storksbill
'e	Erysismum capitatum	Western Waliflower
0	Eschscholzia californica	California Poppy
a	Eucrypta chrysenthemilolie Euthamia occidentalis	Spotted Hideseed Western Goldenrod
6		
Ü	Garrya veatchii Gille so	Canyon Silk Tassel
n i	Gilia sp. Gnaphalium	Gilia Codweed
0	Guillenia lasiophylla	California Mustard
ć	Gulierrezie sarolhrae	Broom Matchweed
e .	Heliotropium curassavicum	Salt Heliotrope
3	Hirshfeldia incana	Short-pod Mustard
ō.	Lamium emplexicaute	Hapbit
8	Lasthenia gracifis	Common Goldfields
X	Layia glandulosa	White Layis
5	Lepidium sp.	Pepperweed
4	Linenthus bellus	Descri Beauty
#	Linanthus dichotomus	Evening Snow
÷	Lonicera subspicata	Johnston's Honeysuckle
11	Matacottinx californica	California Dandelion
G	Malacathrix clovelandii	Cleveland's Malacothrix
٥	Mareh mecrocarpus	Wild-aucumber
0	Marrubium vulgare*	Horehound
3	Matricaria matricarioides*	Common Pineapple-weed
7.	Reformation is construction on a	Manloh's Stick look

Mentzelia veatchiana

Nemophila menzeisii

Orobanche bulbosa

Microsteris gracilis

Mimulus sp.

0	Osmadenia tenella	Osmedenia
1	Paeonia californica	California Peoply
э	Pectocarya sp	Pedlocarya
33	Phacelia sp.	Phacelia
0	Pholistoma membranaceum	White Fiesta Flower
٥	Plagiobothrys sp.	Popcornflower
٥	Plantago patagonica	Desert Plantain
\sim	Platystamon californicus	Gream Cups
: 1	Prunus ilicifolia	Holly-leaf Cherry
ü	Refinesquia neomexicana	Desert Chicory
9	Ribas quercetorum	Oak Gooseberry
0	Rompa nesturium-aqueticum	Water-cress
0	Rosa californica	California Rosa
o	Saltugija australis	Southern Gilia
c,	Senecio californicus	California Butterweed
0	Senecio flaccidus	Butterweed
٥	Sidalcee malvaeffore	Checker-bloom
п	Sisymbrium sp	Tomble Mustard
5	Solidago delifornica	California Goldenrod
4	Stachys ajugoides	Hédge-nettle
	Stephanomeria sp.	Wreathplant
Çı	Streptanthus campostris	Southern Jewelllower
c	Stylocline gnaphalipides	Everlasting Nest-straw
e.	Tetradymia comosa	Cotton-thorn
C	Thysanocarpus sp.	Fringepod
Ċ.	Trichostemma parishii	Mountain Bluecarls
:	Tropidocarpum gracile	Slender Dobie-pod
1	Uropappus lindleyi	Silver Puffs
o .	Viola purpurea	Oak Yellow Violet
o		
'n	Other Flowering Plants:	7
,	Pray color on so	62.03
2	large of the state with control	2 <u>2</u>
	1 / 1 / 1 / 1 / 1 / A	·)

Rare Wildlife or Rare Plants:

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a

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6

Vealch's Stick-leak

Small-flower Baby Blue Eyes

Chaparral 8:00m-rape

Slender Phlox

Monkeyflower

(spound blacked)

Recorder Antono He	<u>Guticonez</u> a	dd'i Person: _	None	Date: 4 19 11 GPS Unit 10
Project: Concentrix So	lar P <u>roject</u> Map	#: <u>s</u> 2 Surve	ىرىن ئىرىي (Sxn:	w/√ C QC8 Protocol Survey# 3 of 5
TIME (24-hour)	Femp (F1): W	and (angliman)	% CC	Sky
Start 10:00		3.2/6	0	
l l		 , ;		
μ:00		2/6	\circ	Cosp calchy overcass crazin shower
jasoo	.6.2	3/8	\mathcal{O}	(duck natchy overcast directs shown
	منية عارا	St 6. 1	0	clear parketry overceel directe shows:
14:00	64	- 	ō	
, —		* !	ŏ +	patrity evercasi onesie shewyr
15,00		2/6	1	garetry controlled druzzle shower
End 16:00	~ 6 D ~ ~ ~	16-	<u>ت</u>	(clear) catchy conscass district shower
Habitat On-site (circle): upen	soils, hilltops, (ridge	es/rock outcrop	s, soil crusts, Total	day soils, ald roads, various neclar sources
Nymphalidae (Brushfooted	l Butterfiles)			Hesperiidae (SkJppers)
Euphydryas editha (Quino			—i —	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (H		sn		Erynnis tristis (Sad Duskywing)
Thessalia leenira (Wright's		20 .	 -	Erynnis tristis (Sab Doskywing) Erynnis propertius (Propertius Duskywing)
Chlosyne californica (Califo				· · · · · · · · · · · · · · · · · · ·
		 -	ļ	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's C Phyciodes mylitta (Mytitla (_	Pyrgus albescens (Checkered Skipper)
			- ∤ ਧੂ—	Hespena jubia (Jubia Skipper)
Junonia coenia (Common I		<u> </u>	<u>! </u>	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West o		·		Megathymidae (Glant Skippers)
Vanessa afalanta (Red Adr				Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted L				<u> </u>
Vanessa virginiensis (Virgin			l <u>-</u>	Other Butterflies:
Nymphalis californica (Cal.		<u>) </u>		Und supplur
Danaidae (Milkweed Butter				Southy Diskywing 1
Danaus plexippus (Monarc	:h)			· ·
Danaus gilippus (Queen)				
Satyridae (Satyrs)				
Coenonympha californica (Ringlet)		
Pieridae (Whites, Sulphurs)				
Pieris rapae (Cabbage Whi		<u> </u>		
Pontia sisymbrii (Spring Wi			. ! .	<u> </u>
Pontia backerii (Beker's Wh				
Pantia protodice (Common			3	
Anthochans sara (Sara Ora				<u> </u>
Anthochans cethure (Folde				
Euchlee hyantis (Desert Po				
Collas eurytheme (Orange:				
Colles harfordii (Harford's S			<u> </u>	
Nathalis iale (Dainty Sulphu				
Papillonidae (Swallowtails)			<u>.</u>	Notes:
Papilio polyxénes (Desert B				AG 85 1
Papilio eurymedon (Pale sv	<u>.</u>			Art AD 1 P 75 Assemble dose
Papilio rululus(Western Tigo	er Swalfowtail)			ABAD 2 200 2 3
Riodiniade (Metalmarks)				ARAD 3 FOR Y L.
Apodemia mormo (Bahr's N		THE WILLIAM	ut 31	4600 Y 200 = 7 Ping
Lycaenidae (Hairstreaks and	d Blues)			AETRNI 2 raptor nest Replayed House
Celestrina ladon (Spring Az	ure)			AGAD > 200 4 potraceles 10 yes.
Leptotes marina (Marina Blu	ue)		Ì	AGLS 1 Loggerhand Shrive
Brephidium exile (Western I	Pygmy Blue)		 -	AGNUI S.D. Woodrat rest
Glaucopsyche lygdamus (Si		y blue)		MENC 2
Нетівідиз сегнипиз (Edwa		 .		AGNL 3
Icaria acmon (Acmon Blue)				NONE 4
Philotes sonorensis (Sonora				AGNL S
Callophrys augustinus (Brov			- 	AGNL 6
Callophrys perplexa (Perple		eax)	1	
Strymon melinus (Gray Hair		,	+	CORA, CARRILLEST, RTHA, TOVO
Allidas halesus (Great Purpl				
			. L	BUSH, CRTH
				side blotch 11 2ard, ferecal 1. zard

Instructions:

Orobanche bulbosa

Chaparral Broom-rape

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterianum	= AC Cottinsia concolor = CC	Cordylan	thus rigidus = CR Planta	<u>go patagonica = PP</u>
			—		
U	Amsinckia menziesii	Rancher's Fiddleneck	9	Osmadonia tenella	Osmadenia
<:	Antirrhimum coulterianum	Coulter's Snapdragon		Pasonia californica	California Peony
0	Antimhinum nuttallianum	Nuttail's Snapdragon	6	Рестосатув вр	Pectocarya
n	Asclepies fescicularis	Narrow-leaf Milkweed	0	Phacelie sp	Phacelia
0	Boochera sp.	Rock Cress	11	Pholisloma membranaceum	White Fiesta Flower
ō	Calandrinia ciliata	Red Maids	ت ا	Plagrobothrys sp.	Popcomflower
G	Calochortus conculor	Golden-bowl Mariposa Lity	1 0	Plantago patagonica	Desert Plantain
0	Calystegia longipes	Morning-glory	0	Platystemon californicus	Cream Cops
45	Camissonia sp.	Sun Cup	С	Prunus ilicifolia	Holly-leaf Cherry
Ľ	Castilleja exerta	Paintbrush	- 0	Rafinesquia neomexicana	Desert Chicory
٥	Caulanthus heterophyllus	San Diego Jewelflower	U	Ribes quercetorum	Oak Gooseberry
J	Caulanthus simulans	Payson's Caulanthus		Romipa nasturtium-aquaticu	
0	Ceanolhus cunealus	Buck Brush	1 0	Rosa californica	California Rose
C.	Ceanolitus greggii	Cup-leaf-lifac	ه ا	Saltugilia australia	Southern Gilia
c	Ceanothus leucodermis	Chaparral Whitethorn	ت ا	Senecio californicus	California Butterweed
٥	Cheenactis artemisiifolia	White Pincushion	0	Senecio fleccidus	Butten-eed
O.	Chaenactis glabriuscula	Yellow Procushion	0	Sidalcea malvaeflora	Checker-bloom
c	Clemelis sp	Clematis	n n	Sisymbrium sp.	Tumble Mustard
L.	Collinsia concolor	Southern Chinese Houses	7	Solidago çaliforniça	California Goldenrod
0	Cordylanthus rigidus	Dark-tip Bird's Beak		Stachys ajugoides	Hedge-nettle
0	Coreopsis californica	California Coreopsis	0	Stophanomeria sp.	Wreathplant
0	Corethrogyne fileginilolia	Common Sand-aster	0	Streptanthus compostris	Southern Jewelflower
O	Cryptantha sp.	Cryplantha	0	Stylocline gnaphalioides	Everlasting Nest-straw
0	Cucurbita foetidissima	Cafabazilfa		Tetradymia comosa	Cotton-lhom
ò	Descurainia sp.	Tansy-mustard	0	Thysanocurpus sp.	Fringepod
0	Dicentre chrysentha	Golden Ear-drops	0	Trichoslemma parishii	Mountain Bluecurts
c	Dichelosterima capitatum	Blue Dicks	0	Tropidocarpum gracile	Slender Dobie-pod
C	Dudleya sp	Dudleya	٥	Uropappus lindleyi	Silver Puffs
0	Emmenanthe pendulifera	Whispering Bells	C	Viola purpuréa	Oak Yellow Violet
0	Eriastrum sp.	Woolly-star	0		
n	Ericemerie sp.	Goldenbush	0		
0	Engeron rolliosus	Leafy Daisy	C	Other Flowering Plants:	
0	Eriodictyon trichocetys	Hairy Yerba Santa			
r.	Friogonum fasciculatum	Inland California Buckwheat			
9	Enogonum sp.	Buckwheat	1 -		
c	Eriophyllum sp.	Golden-yarrow	٥		
•	Erodium cicutarium*	Red-stem Storksbill	0		
٥	Erysismum capitatum	Western Wallflower	г.		
0	Eschscholzia californica	Catifornia Poppy	U		
O	Eucrypta chrysanthemifotia	Spotted Hideseed	٥		
a	Euthamia occidentalis	Western Goldenrod	n	Rare Wildlife or Rare Plants	s:
	Garrya veatchii	Canyon Silk Tassel	۰		
e	Gilia sp.	Giftà	c		
0	Gnephalium Guillenia lesiophylla	Cudweed California Mustard	ں ا		
0			0		
:	Guliefrézia sárothrae Heliotropium curassavicum	Broom Ma xhw eed	٥		
0	•	Salt Heliotrope	· c		
•	Hirshfeldia incana Lamium amplexicaule	Short-pod Muşlard Henbit	<u> </u>		
			0		
•	Lasthenia gracilis	Common Goldfields	1 ^		
	Layla glandulosa	White Layla	0		
e .	Lepidium sp. Linenthus bellus	Pepperweed	0		
0	Linanthus dichotomus	Desert Beauty	ి		
0		Evening Snow	۰ ا		
a d	Lonicera subspicata Malacothrix californica	Johnston's Honeysuckie	"		
	Maiacothrix clavelandii	California Dendelion	5		
0		Cleveland's Malacolhrix	n .		
о 	Marah macrocarpus Magribium sulacent	Wild-cucumber	1 "		
	Manubium vulgar e* Malticaria malricarioides*	Horehound			
2	Mantzella matricanoines	Common Pineapple-weed	0		
0		Veatch's Srick-leak			
0	Microsteris gracilis Microsteris en	Slender Phlox	٥		
	Mimulus ap. Namophila menzaisii	Monkeyflower	u u		c
0	Ombancho hidhasa	Small-flower Baby Blue Eyes Changral Broom-rane			

Recorder: <u>Frommus Hendicks</u> Add'l Person: <u>Er</u>	/4 /3	· · · · · · · · · · · · · · · · · · ·				
Project: Concentrix Solar Project Map #: Survey S	xn: <u>50(</u>	gE QCB Protocol Survey # ≤ of 5				
1	, cc	5ky				
start 11:15 70.6 2.6/5.6 C	Ċ	close pulcity overcast onzer shower				
12.00 70,2 3,2/5,9 0	5 I	. _				
1.08 12-11 12/05 0	\leftarrow	/ Cogy patchy overcost drazic shower				
1- <u>103 (a/1 5.3/7.3</u> .0	′ ∤.	Coled pulicity overcost decade shower				
		ciear patithy overcasi crizzle stower				
2700 715 41172 C	<u> </u>	Cyas putchy overcast druz/e shawer				
3:00 702 43/64 6	ì	Sugar pareiny overtest destin shower				
End 4:10 69.0 29/5.7 6	21	ctes patchy overcast cruzie shower				
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, various nectar sources Total Total						
Nymphalidae (Brushfooted Butterflies)	Total	Total Hesperiidee (Skippers)				
Euphydryas editha (Quino Checkerspot)	1	Erynnis funeralis (Funereal Duskywing)				
Euphydrysa chalcedona (Henna's Checkerspot)	 	Erynnis tristis (Sad Duskywing)				
Thesselia leanira (Wright's Checkerspot)	}	Erynnis propertius (Propertius Duskywing)				
Chlosyne californica (California Palch)	·	Erynnis briza (Sleepy Duskeywing)				
Chiosyne gabbii (Gabb's Checkerspot)	ļ	Pyrgus albescens (Checkered Skipper) -				
Phyciodes mylitta (Mylitta Crescent)	+	Hesperia jubia (Jubia Skipper)				
Junonia coenia (Common Buckeye)	—	Polities sabuleti (Sandhi I Skipper)				
Vanessa annabella (West Coast Lady)	 	Megaffymidae (Giant Skippers)				
Vanessa afalanta (Red Admiral)	 	Megathymus yuccae (Yucce Giant Skipper)				
Vanessa cardui (Painted Lady)	: 	inegarymas yausas (vasas entire entir				
Vanessa virginiensis (Virginia Lady)	ŀ	Other Butterfiles:				
Nymphalis californica (California Tortoiseshell)	 					
Danaidae (Milkwood Butterflies)	┼──	Sulphon Sp. 11 7				
Danaus plexippus (Monarch)	<u> </u>	30.4/110x1 342.				
Danaus gikppus (Queen)	 	Teliver Callette Commenter By well to				
Satyridae (Satyrs)	t	Low york North (Orange Keny 1916) 11 2				
Coenonympha californica (Common California Ringlet)		1				
Pieridae (Whites, Sulphurs)	1	1 a marke to the form				
	1	1 TM1 & 0 AC NO NO LE TO BOTA DOMESTO DOMESTO L				
	! 1	Bouge Moth (hy a partial ey sists)				
Pieris rapee (Cabbage White)		on hind wines				
	<u> </u> · -	on hindwings				
Pieris repee (Cebbage White) Pontie sisymbrii (Spring White)		on hind winds 11 2				
Pieris repee (Cebbage White) Pontie sisymbrii (Spring White) Pontie beckenii (Beker's White)	3	on hind winds 1/2				
Pieris repae (Cebbage White) Pontie sisymbrii (Spring White) Pontie beckerii (Beker's White) Pontia protodice (Common White)	3	20. 60 Kist in 1217 to partial and winds 1/2				
Pieris repae (Cabbage White) Pontie sisymbrii (Spring White) Pontie beckenii (Beker's White) Pontie protedice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felders Orangetip) Euchloe hyentis (Desert Pearly Marble)		20. gp Kist in they a partial and winders 1/2				
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Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangetip) Euchloe hyentis (Desert Pearly Marble) Collas eurytheme (Orange Sulphur) Collas harfordii (Harford's Sulphur) Nathatis iole (Dainty Sulphur) Paptilonidae (Swallowtails) Paptilo polyxenes (Desert Black Swallowtail) Paptilo eurymedon (Pale swallowtail) Paptilo rutulus/Western Tiger Swallowtail) Riodinlade (Metalmarks) Apodemie mormo (Cehr's Metalmark)		on hindwidgh 1/2				
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Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangetip) Euchloe hyentis (Desert Pearly Marble) Colles eurytheme (Orange Sulphur) Colles harfordii (Harford's Sulphur) Nathatis iole (Dainty Sulphur) Papillonidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus/Western Tiger Swallowtail) Riodinlade (Metalmarks) Apodemia mormo (Sehr's Metalmark) Lycaenidae (Hairistreaks and Blues)	2	on hindwidgh 1/2				
Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangetip) Euchloe hyantis (Oesert Pearly Marble) Collas eurytheme (Orange Sulphur) Collas eurytheme (Orange Sulphur) Nathatis iole (Osioty Sulphur) Papillonidae (Swallowtails) Papilio polyxenes (Desert Black Swaflowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus/Western Yiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Sebr's Metalmark) Lycaenidae (Hai: streaks and Blues) Celastrina tadon (Spring Azure) Leptotes marina (Marine Blue)	2	on hindwidgh 1/2				
Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangetip) Euchloe hyantis (Desert Pearly Marble) Collas eurytheme (Orange Sulphur) Collas harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papillonidae (Swallowtails) Papilio polyxenes (Desert Black SwaFowtail) Papilio rutulus/Western Tiger Swallowtail) Papilio rutulus/Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemie mormo (Sebr's Metalmark) Lycaenidae (Hai: streaks and Blues) Cetastrina ladon (Spring Azure) Leptotes marina (Marine Blue) Brephidium exilo (Western Pygmy Blue)	2	on hindwidgh 1/2				
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Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangetip) Euchice hyentis (Desert Pearly Marble) Collas eurytheme (Orange Sulphur) Collas eurytheme (Orange Sulphur) Poptilonidae (Swallowtails) Pagrilo polyxenes (Desert Black SwaFowtail) Paptilo eurymedon (Pale swallowtail) Paptilo rutulus/Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Sehr's Metalmark) Lycaenidae (Hair streaks and Blues) Cetastrina ledon (Spring Azure) Leptotes marina (Marine Blue) Brephidium exito (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue)	2	on hindwidgh 1/2				
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Pieris repae (Cabbage White) Pontia sisymbrii (Spring White) Pontia backenii (Beker's White) Pontia protedice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip) Euchice hyentis (Desert Pearly Marble) Colias eurytheme (Orange Sulphur) Colias harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papillonidae (Swallowtails) Pagrilo polyxenes (Desert Black Swallowtail) Papilio rutulus/Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemie mormo (Eehr's Metalmark) Lycaenidae (Hairistreake and Blues) Cetastrina tadon (Spring Azure) Leptotes marina (Marine Blue) Brephiduum exito (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Effin)	2	on hindwidgh 1/2				

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

·	Amsinckla menziesu	Rancher's Fiddleneck
0	Antirrhimum coulterianum	Coulter's Snapdragon
o	Antimhinum nuttallianum	Nettall's Snapdragon
n	Asclepies fascicularis	Narrow-leaf Milkweed
o	Boochera so.	Rock Cress
0	Calandonia cikata	Red Maids
o	Calochortus concolor	Golden-bowl Mariposa Lily
o	Calystegia longipes	Morning-glory
o	Cantissonie sp.	Sun Cup
e	Castilleja exerta	Paintbrush
٥	Caulanthus heterophyllus	San Olago Jawelflower
٥	Caulanthus simulans	Payson's Caulanthus
0	Ceenothus cuneatus	Buck Brush
×	Ceanothus greggii	Cup-leaf-lilac
' 0	Ceanolitus leucodermis	Chaparral Whitethorn
r.	Chaenactis artemisiifolia	White Pincushion
Ü	Chaenactis glabriusculo	Yellow Pincushion
σ.	Clemetis sp	Clematis
D.	Collinsia concolor	Southern Chinese Houses
o	Cordylanthus rigidus	Dark-tip Bird's Beak
X	Careopsis californica	Catifornia Coreopsis
0	Corethrogyne filaginifolia	Common Sand-aster
Х	Cryptanths sp.	Cryptantha
o	Cucurbita foetidissima	Calabazilla
0	Descurainia sp.	Tensy-mustard
G.	Dicentra chrysantha	Golden Ear-drops
0	Dichelostemma capitatum	Blue Dicks
Đ.	Dudleya sp.	Dudleya
O.	Emmenanthe pendulifera	Whispering Bells
0	Eriastrum sp.	Weelly-star
0	Ericameria sp.	Goldenbush
၁	Erigeron foliosus	Leafy Daisy
o	Enedicty on Inchedatys	Hairy Yerba Santa
15	Eriogonum fasciculatum	Inland California Buckwheat
c	Eriogonum sp.	Buckwheat
0	Eriophyllum sp.	Golden-yarrow
×	Erodium cicularium	Red-stem Storksbill
0	Erysismum capitatum Eschecholzia californica	Western Walflower California Poppy
o o	Eucrypia chrysanthemifolia	Spotted Hideseed
a	Eulhamia occidentalis	Western Goldenrod
	Garrya veatchii	Canyon Silk Tassel
0	Give sp.	Gilia
6	Gnaphalium	Cudweed
Ç	Guillenia lasiophylla	Catifornia Mustard
ė	Gulierrezia sarolhrae	Broom Matchweed
¢:	Heliotropium curassavicum	Salt Heliotrope
o.	Hirshfeldie incena	Short-pod Mustard
٥	Lamium amplexicable	Henbit
Ę	Lesthenia gracilis	Common Goldfields
×.	Layia glandulosa	White Layia
o .	Lepidium sp.	Pépperweed
Ţ.	Linanthus bellus	Desert Beauty
a	Linanthus dichotomus	Evening Snow
0	Lonicere subspiceta	Johnston's Honeysuck'e
0	Malacothnx californica	California Dandelion
n	Malacothrix elevelandir	Clevelend's Melacothrix
G.	Магаћ тасгосагриз	Wild-cucumber
	Marrubium vulgare*	Horehound
	Matricaria matricarioides*	Common Pineapple-weed
	Montzelia vealchiana	Veatch's Shick-leak
	Microsteris gracilis	Stender Phlox
	Mimulus sp.	Monkeyflower
1	Nentophila menzeisii Osoboosho hulbaan	Small-flower Baby Blue Eyes
-		

Chaparral Broom-rape

Orobanche bulbasa

Osmađenia tenella	Osmadenia
Paconia californica	California Peony
Pedocarya sp.	Pectocarya
Phacelia sp.	Phacelia
Phoistoma membranaceum	White Flesta Flower
Plagiobothrys sp.	Papcornflawer
Plantago paragonica	Desert Plantain
Playstemon californicus	Cream Cups
Prunus ilicifelia	Hotly∹eaf Cherry
Refinesquia neomexicana	Desert Chicory
Ribes quercetorum	Oak Gooseberry
Rompe nesturtium equaticum	Water-cress
Rosa californica	California Rose
Sallugilia australis	Southern Gilia
Senecio catternicus	California Butlerweed
Senecio flaccidus	Bullerweed
Sidalcee malveeflore	Checker-bloom
Sisymbrium sp.	Tumble Mustard
Solidago californica	Çalifornia Goldenrod
Stachys ajugoides	Hedge-nattie
Stephanomaria sp.	Wreathplant
Streptanthus cempestris	Southern Jewelflower
Stylocline gnaphalioides	Everlasting Nest-straw
Tetradymia comosa	Cotton-thorn
Thysanocarpus sp.	Fringapod
Trichosterima perishii	Mountain Bluecurts
Tropidocarpum gracile	Stender Doble-pod
Uropappus lindleyi	Såver Puffs
Viola purpurea	Oak Yellow Violet
Other Flowering Plants:	

O.	Rare Wildlife or R	tare Plants:
£	JH DOLA	Astrag doug pero. I plan
6 6	Bhilbold Bhodosa	Astrag doug pero. I plan Lina Allins bollous few
0	Bhadoz-A	Astring doing seis, 1
0	Bhadoyn	
0	Bh 16 03 B	Linauthus Kellino
0 0	Shaloi Bhaloi Bhaloi	wordend next
0	BN (2380)	
0	Bhilb078 Shaqiftaa	Lathrus Splandonia / Lin latellas on Elus in I plant next
c 1	tal w. out	alsoinal secon

Recorder: Ky	R Inca	_Add1 Person:		Date: $\frac{4\sqrt{127}/11}{6}$ GPS Unit: 6
Project Concent	nix Solar Project N	Лар #:Sur	vey Sxn:	QCB Protocal Survey # 3 of 5
TIME (24-bour)	Femp (f*):	Wind (avg(max)	* 0C	
Start	[]			clear patery evacable drazile shower
1000	61	Zenzin	27	Colore potenty ownershil dead o shower
, 1 VIVI	65	IMIN	5/	
	- 68, 1			dear palaty overcast durks shows
1230	I :	2mph	<u> </u>	parchy overcast enzyto strong
1340	700	2~0~	0.7	plear paichy evercast drasto shower
1430	400	Jru by	07	clean parking outstand drazing stander
End 1545	703	3mpin	57	paintry quarters diffuse shower
); open sons (hill:cps	ntiges rock outch	oos, soil crusts	ctay souls, old roads various nector sources
Nymphalidae (Brush	footed Butterfiles)		/ Tota	Hesperiidae (Skippers)
				Erynnis funeralis (Funereal Duskywing)
	(Quino Checkerspot) tona (Henne's Checke		 -	Erynnis Inistis (Sad Duskywing)
	Vright's Checkerspot)			<u> </u>
Chlosyne californics			_	Erynnis briza (Sleepy Duskeywing)
Chlosyne gabbii (Ga				Pyrgus albascens (Checkered Skipper)
Phyciodes mylitta (N	Ayrıtta Crescent)			Hesperia jubia (Jubia Skipper)
J;monia coenia (Cor	nmon Buckeye) 📲	<u> </u>	10	Polites sabuleti (Sandhill Skipper)
Vanessa annabolla		-		Megathymidae (Giant Skippers)
Vanessa atalanta (वि				Magathymus yuccse (Yucca Grant Skipper)
Vanessa cardui (Pa				
Vanecsa virginiensis				Other Butterflies:
	a (California Tortoise	eshell)		<u> </u>
Danaldse (Milkweed	<u> </u>		į	
Danaus plexippus (· · · · · · · · · · · · · · · · · · ·			<u> </u>
Danaus gilippus (Qu	1664)			
Salyridae (Satyra)			\longrightarrow	<u> ———</u>
	ornica (Common Calif	ornia Kinglet)		
Pieridae (Whites, Su				<u> </u>
Piens rapae (Cabba				
Pantie sisymbrii (Sp				
Pontia beckeni (Bek				<u> </u>
Pontia protodice (Co		-m		
	ara Orangeto) 4444			
	(Felder's Orangetip)			··· ···
Euchice hyantis (De				
Collas eurytheme (C			ļ.——	
Colias harlordii (Har			- .	
Nathalis icle (Dainty Papilionidae (Swallor				* *
<u>'</u>		A:II		Notes:
Papilio polyxenas (u Papilio curymedon ()	esen Black Swallowk	all)		K Adz Ne is
	ern Tiger, Swallowtail,	1		
Riodiniado (Metalmai		,	<u>-</u>	K. GVOZ Gerra Visida WS 8
	tehrs Metalmark) 🗘	متران تستورات برآن	: 	K. 18 61 - (ne min to to to to to to to to to to to to to
Lycaenidae (Hairstre	zenr s wetermank) 13	<u> </u>	-11 28	Kind of - Home - Lizava. WE
Celastrina ladon (Sp		£.[1]		<u> </u>
				Kilb 02 - N = 36
Leptotes marina (Ma	<u>-</u>			Kilb 03 - 11 = 68
Brephidium exile (W	estem Pygmy Blue) mus (Southern Blue/S	Cikiaai hkiai	———- · ··	1131 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Hemiargus Ceraunus		ouvery unie)	·-	K(aV 03 N = 25
learia acmon (Acmor	<u> </u>		· 3	
Philotes sonorensis		· · · · · · · · · · · · · · · · · · ·	 -	16 16 06 W = 60
Callophrys augustini				115 16 25 W = 60
:	(Perplexing Green Ha	nretraski I		Kira 03 NS 1
Strymon melinus (Gr		3450E0N)		
	at Purple Hairstreak)		<u> </u>	Kingdot NG 4 Kingdot NG 4 Kingdot - Kordylantinos Vigi dus - M= 30
Auraga Mareaus (OIE)	or carbic mensineur)	. —	<u>-</u>	
				1 K-12 38 - 1259

Kills Of -N=19
Kills Of Brown to Strong Lossed No2

Instructions:

Orobanche bulbosa

Chaparral Broom-rape

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

<u> </u>			/		
天	Amsinckia menziesii	Rancher's Fiddleneck	` "	Osmadonia teneka	Osmadenia
0	Antirrhimum coulterianum	Coulter's Snapdragon		Paecinia californica	California Peony
0	Antinhinum nuttallianum	Nutrali's Snapuragon	- 6	Pedlocarya sp.	Pedocarya
LF	Asclepios fascicularis	Narrow-leaf Milkweed	- X	Phacelia sp.	Phacelia
G	Boechera sp.	Rock Cress	- n	Pholistoma membranaceum	White Fiesta Flower
٥	Catandrinia citiata	Red Maids		Plagiobothrys sp.	Popcornflower
0	Calochortus concalor	Golden-bowl Mariposa Lily	٠ ا	Plantago patagonica	Desert Plantain
n	Calystegia longipes	Morning-glory	1 0	Platyslemon celifornicus	Cream Cups
41	Camissonia sp.	Sun Cup	_ ×	Prunus ilicifalia	Holly-leaf Cherry
9	Castilleja exerta	Paintbrush	- I - %	Rafinesquia neomexicena	Desert Chicary
٥	Caulanthus heterophyllus	San Diago Jewelflower	\perp ×	Ribes quercetorum	Oak Gooseberry
э	Caulanthus simulans	Payson's Caulanthus	- 2	Rorripa nasturtium-aqualicum	Water-cress
0	Ceanothus cuneatus	Seck Brush		Rose californice	Catifornia Rose
\times	Ceanothus greggii	Cup-leaf-litac		Sattugilia australis	Southern Gilia
0	Ceanothus teucodermis	Chaparral Whitelhorn		Senecio californicus	California Butterweed
12	Chaenactis artemisiifolia	White Pincushion	, i	Senecia Reccidus	Butterweed
o	Chaenaclis glabriuscula	Yellow Pincoshion		Sidalcea malvaellora	Checker-bloom
c	Clematis sp.	Clematis	$\perp \times$		Tumble Mustard
Ü	Collinala concolor	Sputhern Chinese Houses	1 3	Solidago californica	California Goldenrod
λ	Cordylanthus rigidus	Dark-tip Bird's Beak	c	Stachys ojugoides	Hedge-nettle
0	Coreopsis californica	California Coreopsis		Stephanomeria sp.	Wreathplant
6	Corethrogyne filaginifolia	Common Sand-aster	۰	Streplanihus campestris	Southern Jeweiflower
×		Cryptantha	- 1	Stylocline graphalioides	Everlasting Nest-straw
~	Cycurbita foetidissima	Calabazilia	*	Tetradymia comosa	Cotton-thorn
	Descurainia sp.	Tansy-mustard	نّ ا	Thysanacarbus sp.	Friegepod
X	Dicentra chrysentha	Golden Ear-drops		Trichostemme parishii	Mountain Bluecuris
c	Dichelostemma capitatum	Blue Dicks	1 5	Tropidocarpum gracile	Slender Dobie-pod
0	Dudleya so	Dudleya	1	Uropappus lindleyi	Silver Putts
3	Emmenanthe pendulifera	Whispering Bells	1 3	Viola purpurea	Oak Yellow Violet
	Eriastrum sp.	Woolly-star] "	Tible perparas	Other Parket
交	Encamena sp.	Goldenbush			
\sim	Engeron foliosus	Leafy Daisy	ءَ ا	Other Flowering Plants:	
, 1	Eriodictyon trichocalys	Hairy Yerba Santa	~	Agistima 20-15	
*	Eriogonum fasciculatum	Inland California Buckwheat	, ,	Mark - G	
6	Eriogonum sp.	Buckwheat			
×	Eriophyllum sp	Golden-yarrow	، ا		
∕∿`	Erodium cicularium*	Red-stern Storksbill	ن ا		
ō	Erysismum capitatum	Western Wallflower			
ě.	Eschscholzie californice	California Popoy			
0	Eucrypta chrysanthemifolia	Spotted Hideseed	٥		
0	Euthamia occidentelis	Western Goldenrod	l ő	Rare Wildlife or Rare Plants:	
文		Canyon Silk Tassel	- 2	Nate Tribuille of Paris Faris.	
	Gilia sp.	Gilia	,		
×	Gnaphalium	Cudweed	Š		
٥	Guillenia lasiophylla	Catifornia Mustard	ن ا		
ċ	Gulièrrezia sarothrae	Broom Matchweed	,		• •
	Heliulropium curassavicum	Salt Heliotrope			
Ü	Hirshfeldia incuna	Short-pod Mustard	,		
٥	Lamium emplexicaule	Herbit	Š		
Ŕ	Lasthenia gracifis	Common Goldfields	، ا		
ŵ	Layia glandulosa	White Layia	- 0		
6	Lepidium sp.	Peoperweed	ĺ		
×	Ligarithus bellus	Desert Beauty			
$\hat{}$	Linanthus dichotomus	Evening Snow	, i		
χ̈́	Loricera subspicata	Johnston's Honeysuckle	,		
<u>ି</u>	Malacethrix californica	California Dandelion	,		
	Malacothrix clevelandu	Cleveland's Malacolhrix	, n		
'n	Marah macrocarous	Wild-cucumber	.,		
٥	Marrubium vulgare*	Horehound	,		
Ü	Metricaria matricarioides'	Common Pineapple-weed	8		
	Mentzele vealchiena	Vealch's Strok-leak	"	•	
ā	Microsleris gracilis	Siender Phlox	6		
11	Mimulus sp.	Monkeyflower	- "		6
Ü	Nemophila menzeisii	Small-flower Baby Blue Eyes	~		
-	The state of the s		ı °		

${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey-Field\ Data\ Sheet}$

Recorder: Maraje Mulliage Add Person:				
·		Map #: 5 Sun	vey Sxn:	QCB Protocol Survey# 3 of 5
FIME (24-hour)	Temp (€*):	Wind (evalues)	% CC	Sky
O Deter	600	1-55	2	
	64.	2 (/9)		
1130		3-6 (8)	5	Clear patiting overcest drucke shower
1420	680	3-5		patchy overtast przes strawer
1600	68	2-5	-Š _	(clear) patery overtast micro shower
_ ,	T	[close easily overcost deaths shower
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	+	;·· - · - 		clear politrig chalcast delays shower
End		<u> </u>		<u>nieur parcho</u> pivarcuss conzile anower
Habitat On-site (circle): op	en soris, gilllops	>idges/fock outero	ips) soil c <u>rusts</u>	s clay soits o'd roads, various nectar sources
			Tota	al To
Nymphalidae (Brushfoot				Seaperildae (Skippers)
Euphydryas editha (Quin				Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona				Erynnis tristis (Sad Duskywing)
Thesselia leanira (Wrigh))		Erynnis propertius (Propertius Duskywing)
Chlosyne celifornica (Ca				Erynnis briza (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's			i	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta	a Crescent)			Hesperia jubia (Jubia Skipper)
Junonia coenia (Commo	п Вискеуе)		11/0	Polites sebule!i (Sandhill Skipper)
Vanessa annabella (Wes	t Coast Lady)			Megathymidae (Glant Skippers)
Vanessa atalanta (Red A			·· —	Megothymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted	l Lady)		;	<u> </u>
Vanessa virginiensis (Vir	ginia Lady)		1	Other Butterflies:
Nymphalis californica (C		esheli)	† "	Common Southwing
Danaidae (Milkweed Butt				
Danaus plexippus (Mona	· · · · - · · · · · · · · · · · · · · · · · · ·			·
Danaus grippus (Queen)				
Satyridae (Satyrs)	·		<u>-</u> -	
Coenonympha californica	a (Common Cali	fornia Ring(ell)		
Pieridae (Whites, Sulphu		,	1	-
Pieris repae (Cabbage V				
Pontia sisymbrii (Spring)			1	-
Pontia beckeri (Bekers)				
Pontia protodice (Cammi			- 	
Anthocharis sara (Sara C			MEL	(4)
Anthocharis cethura (Fel			THE L	
Euchloe hyantis (Desert		·	—- _• :	- lα
Colias eurytheme (Orang			 	
Colles harfordii (Harfordi:				100
Nethalis role (Dainty Sulp	<u> </u>		. }	
Papitionidae (Swaltowtal)		· · ·	·- -	Notes:
Papilio polyxanas (Deser		taili		140405.
Papilio eurymedon (Pale		(an)		
		iis		— <u> </u>
Papilio rululus(Western T Riodiniade (Metalmarks)	iñe: owsliow(8	")	─	
	Matelma 40		<u> </u>	The still and the The said and and and and the said
Apodemia mormo (Behr's yçaenidae (Hairstreaks			<u> </u>	THE THE THE THE HILL THE THE THE THE THE THE
				HAT HEL THA THE HEL ILL (98)
Celastrina ladon (Spring				
Leptoles marina (Marine				+
Brephidium exile (VVester		OPilone a blor - N		
Glaucopsyche lygdemus		Silvery blue)		· · ·
Hemiargus ceraunus (Ed				
Icaria acmon (Acmon Blu				
Philotes sonorensis (Son				
Callophrys augustinus (B				<u> </u>
Callophrys perplexa (Per		(anstr ea k)		
Strymon melinus (Gray H				
Allides tralesus (Great Pu				
Westygg-tail	ed Blue		ļūtī	(4)

Instructions

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Microsteris gracilis

Nemophila menzeisii

Omberiche bulbosa

Mimulus sp.,

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterionum = AC Collinsia cancolor = CC Cordylanthus rigidus = CR Plantaga patagonica = PP

Amsinckıa manziasii Rancher's Fiddleneck Antimhimum coulterianum Coultor's Spandragen Antimirum nuttallianum Nutrali's Snapdragon Ů Narrow-leaf M: Ikweed Asclepias fascicularis Boschera so. Rock Cress Calandrinia ciliata Red Maids Golden-how! Mariposa Lity Calochortus concolor Catystegia longipes Morning-glory Camissonia sp. Call g mac 4 **Зил Сир** Castilleja exerta Paintbrush Caulanthus heterophyllus San Diago Jewelflower Payson's Caulanthus Caulanthus simulans Ceanothus curreatus Buck Brush 💓 Caanothus greggii . Cup-leaf-lilac Ceanothus leucodermis Chaparral Whitethorn Chacnactis artemisifolia White Pincushion ø Chaenactis glabriuscula Yellow Pincushion Clematis sp. Clematis Southern Chinese Houses Collinsia concolor Cordylanthus rigidus Dark-tip Bird's Beak Coreopsis californica California Coreopsis Corethrogyna filaginifolia Common Sand-aster Cryptantha sp. Cryptantha Cucurbita foetidissima Calabazilla Descurainia ap. Tansy-mustard Dicentra chrysantha Golden Ear-drops Dichelostemma capitatum Blue Dicks Dudfeya sp. Dudleya Emmenanthe pendulitera Whispering Bells Eriastrum sp. Woolly-star Engameria sp. | \ Leavi () | 4 Goldenbush Erigoron foliosus Leafy Daisy Eriodictyon trichocalyx Harry Yerba Santa Eriogonum fasciculatum Inland Catifornia Suckwheat Enogranum sp. Buckwheat Eriophyllum sp. wa reces Golden-yarrow Erodium ciculanum* Red-stem Storksbill Erysismum capitatum Western Walflower California Poppy Eschecholzia californica o Eucrypta chrysanthemifolia Spotted Hidesaed Euthamia occidentalis Western Goldenrod S<u>amya v</u>eatchii Canyon Silk Tassel Gilia Gilia so. **Crischellum** Cudweed Guillenia lasiophylla California Mustard Guherrezie serothrae Broom Malchweed Heliotropium curassavicum Salt Heirotrope Hirshfeldie incane Short-pod Mustard Lamium amplexicaule Henbit Lasthenia pracifis Common Goldfields Layra glanduksa White Lavia Lepidium sp. Pepperweed Linenthus bellus Desert Beauty Linanthus dicholomus Evening Snow Lonicero subspicata Johnston's Honeysuckle Malacothrix californica Catifornia Dandellon Cleveland's Malacothrix Malacothrix elevelandii Marah macrocarpus Wild-cucumber Motrubium vulgare* Harehound Matricario matricario des" Common Pineapple-weed o Mentzelia vealchiana Veatch's Stick-leak

Slender Phlox

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Osmadenia lenella Osmadenia Paeonia californica Caldomia Peoply Pactocarya sp. Pectocarya ٧. Phacelia sp. 2 17 19 19 Phacelia Pholistoma membraneceum White Fiesta Flower Plagiobothrys sp. Poccornflower Plantago patagonica Desert Plantain Platystemon californicus Cream Cups Prunus ilicitolia Holly-leaf Cherry Rafinesquia neomaxicana Desert Chicary Ribes quercetorum Oak Gooseberry Rompa nasturtium-aquaticum Water-cress Rosa californica California Rose Saltugilia australis Southern Gika Senecio catilornicus California Butterweed Senecio flaccidus Butterweed Sidalcea malvaellora Checker-bloom Sisymbnum sp. Tumble Mustard Solidago californica California Goldenrod Stechys ajugoides Hedge-nettle Staphanomeria sp. Wreathplant Streplanthus cempestris Southern Jewelflower Stylocline pnaphalioides Everlasting Nest-straw Tetradymia comosa Cotton-libera Thysanocarpus sp. Fringerood Trichoslemma parishii Mountain Bluecorls Tropidocarpum gracile Slender Dobie-pod Uropappus lindloyt Silver Puffs Viola purpurea Oak Yollow Violet

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Rare Wildlife or Rare Planta: AST DESIGN ON THE SE PARTY OF S MMADOI-OGU

Geraca viscida

MMGVOI - 3 plants

O3

Linantrus bellus - MAPARATER

MMLBOL-O4

Delphinium parishi subodobosum

MMOPOI

Loggerhead Strike

Loggerhead Strike NMLHOI

HORN LIZARD

Recorder: < ()	un Righ	Add'i Person:		<u>a</u>	
Project: Concentrix So	lar Project	√ap #: <u> </u>	vey Sxn:	QCB Protocol Survey # 3 of	5
TME (24-hour)	Temp (F*):	Wind (avg/max)	% CC	Sky	
Start		<u> </u>		člené palchy overcasi dozza shower	
[000]	60	3.2/6	0%	(dear) celony overcost district shower	
1200	<i>63</i>	1.7] 5	وتبني	clego polithy evercasi duade shower	
	54	3/2	O O		
		1 '		(not parkety (verces) of zero showe:	
(602	<u>03</u>	3/5	C		
			i	skeer prifetry overcent druzdo shower	
End			- ,		
Habitat On-site (circle): pper	soile hilltops.	ridges, took outer	ops, soil crusts		
			Tota		Total
Nymphalidae (Brushfooter			ļ	Hesparlidze (Skippers)	<u>!</u>
Euphydryas editha (Quino				Erynnis funerelis (Funereal Duskywing)	<u>:</u>
Euphydryas chalcodona (†				Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright's				Erynnis propertius (Propertius Duskywing)	
Chlosyne californice (Calif				Erynnis brizo (Steepy Duskeywing)	
Chlosyne gahbii (Gabb's C				Pyrgus slbescens (Checkered Skipper)	
Phyciodes mylitle (Mylitta				Hesperia jubia (Jubia Skipper)	
Junonia coenia (Common			164	Polites sabuleti (Sandhill Skipper)	
Vanessa annaballa (Wesl				Megathymidae (Glant Skippers)	
Vanessa alalanta (Red Ad				Megathymus yuccae (Yucca Giant Skipper)	:
Vanesse cardui (Painted l			<u> </u>	<u> </u>	
Vanessa virginiensis (Virgi				Other Butterflies:	
Nymphalis californica (Ca		eshell)		Giolophica as a	
Danaidae (Milkweed Butter				<u>'</u>	<u>!</u>
Danaus plexippus (Monaco	;h} 				
Danaus grlippus (Queen)	· · · · · · · · · · · · · · · · · ·	_	. <u></u> L		∔ Ì
Setyridae (Satyrs)		-			
Ccenonympha californica (-	ornia Kingleti			<u></u>
Pieridae (Whites, Sulphurs					
Pieris rapae (Cabbage Wh					<u></u> i
Pontia sisymbrii (Spring W			ļ		
Pontia beckenii (Beker's W Pontia protodice (Common					!
Anthocharis sere (Sara Ora	invince) H		J-		
Anthochans cathura (Felde					+
Euchloe hyentis (Desert Pe				+	· —
Collas eurytheme (Orange				+	<u> </u>
Colias harfordii (Harford's :				<u> </u>	
Nathalis iole (Dainty Sulph	<u> </u>			-	+:
Papilionidae (Swallowtalls)				/ Notes:	
Papilio polyxenes (Desert I		ail)	1		+
Papillo eurymedon (Pale si					!
Papilio rutulus(Western Tig		;	· 🕂		i '
Ricdiniade (Metalmarks)		•			1
Apodemia mormo (Behr's I	Metalmark) 1 [<u>.</u>	5	· · · · · · · · · · · · · · · · · · ·	: 1
Lycaenidae (Hairstreaks ar		•			<u> </u>
Celastrina tadon (Spring At	Zuf a)			 	
Leptotes marina (Marine B				-	\vdash
Brephidium exile (Western	Pygmy Blue)				\Box
Glaucopsyche lygdemus (S		Silvery blue)			!
Hemiargus ceraunus (Edw				!	
Icaria acmon (Acmon Blue)					
Philales sonorensis (Sonor					
Callophrys augustinus (Bro			į		
Callophrys perplexa (Perp)		airstreak) (<i>.</i>		
Strymon melinus (Gray Ha				<u> </u>	
Allides halesus (Great Pur	ole Hairstreak)			<u> </u>	
			1	- I	1 1

Instructions.

Orobanche bulbosa

Chaparral Broom-rape

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

-		<u></u>	r		
∀	Amsinckia menziesii	Rancher's Exidientesk	· -:	Osmadenia tenella	Osmađenia
Č	Antirrhimum coulterianum	Coulter's Snapdragon	"	Paconia californica	
Ü	Antiminum nuttellianum	Nuttell's Snapdragon		·	California Pecny
c	Asclepies fesciculans	Namow-leaf Milkweed	l ő	Poctocarya sp. Phacelia sp.	Peolocarya
Ö	Boechera sp	Rock Cress	- "	•	Phacelia
0	Calandrinia ciliata	Rod Maids	يق ا		White Flesta Flower
a	Calochorius concolor	Golden-bowl Manposa Lily		·3	Popornflower
6	Calystegia longipes	Morning-glory		Plantago patagonica	Desert Plantain
٠,	Camissonia sp.	Sun Cuo	٥	Platystemon californicus	Cream Cups
o	Castilleja exerta	Paintbrush		Pronus iliculolia	Holfy-leaf Cherry
0	Caulanthus heterophyllus			Rafinesquia neomexicana	Desert Chicary
=	Cautanthus simulans	San Diego Jewelflower Payson's Caulanthus	0	Ribės quercelorum	Oak Gooseberry
0	Ceanothus cuneetus	•	د ا	Rorriga nasturtium-aquaticum	Water-cress
	Ceanothus greggii	Buck Srush	•	Rosa californica	California Rose
		Cup-lesf-tilac	- 0	Selfugilia australis	Southern Gilia
ი 	Ceanothus leucodernis	Chaparral Whitethorn	- 5	Sanacio californicus	California Butterweed
э	Chaenactis ertemisiifolia	White Pincushion	- 6	Senecio flaocidus	Butterweed
۵.	Chaenactis globriuscula	Yellow Pincushion	- 0	Sidelicea malvaetlora	Checker-bloom
0	Clematis sp.	Clematis		Sisymbrium sp.	Turnble Mustard
c	Collinsia concolor	Southern Chinese Houses		Salidago californica	California Goldenrod
r:	Cordylanthus rigidus	Oark-tip Bird's Beak	13	Stachys ajugoides	Hedge-netrie
43	Coreopsis californica	California Coreopsis	0	Steptianomeria sp.	Wreathplant
o	Corethrogyne filaginifolia	Common Sand-aster	٥	Stroptanthus campestris	Southern Jewelflower
2	Cryptaniha sp.	Cryptantha	- 0	Stylockine gnaphakoides	Everlasting Nest-straw
Ü	Cucurbita foetidissima	Calabazilla	٥ ا	Tetradymia comosa	Cotton-thorn
Ω	Descurainia ap.	Tansy-mustard	0	Thysanocarpus sp	Fringepod
٥	DicerNra chrysantha	Golden Ear-drops	i is	Trichostemnia parishii	Mountain Bluecurts
U	Dichelostemma capitatum	2fue Dicks	٥	Tropidocarpum gracile	Siender Dobie-pod
С	Dudleya sp.	Oud'eya	- 3	Uropappus lindleyi	Silver Puffs
E/	Emmenanthe pendulilera	Whispering Bells	0	Viola purpurea	Oak Yellow Volet
U	Eriastrum sp.	Weelly-star	ا (,
o	Ericamena sp.	Goldenbush	- 6		
U	Erigeron foliosus	Leafy Daisy	0	Other Flowering Plants:	
0	Eriodictyon trichocelyx	Hairy Yerba Santa			
0	Eriogonum fasciculatum	Inland California Buckwheat	١,,		
σ	Eriogonum sp.	Buckwheat	0		
0	Eriophyilum sp.	Golden-yarrow			
*	Erodium cicutarium*	Red-stem Storksbill	6		
ò	Erysismum capitatum	Western Walflower			
~	Eschscholzia californica	Сайболка Рорру	0		
:1	Eucrypta chrysanthemifolia	Spotted Hideseed			
o	Euthamia occidentalis	Western Goldenrod	1 3	Rare Wildlife or Bare Plants:	
٥	Garrya veat c hii	Canyon Silk Tassel			
0	Gilia sp.	Gilia	,		
0	Gnaphalium	Cudweed	9		
0	Guillenia lasiophylla	California Mustard			
U	Gutierrezia sarottirae	Broom Matchweed	, š		
0	Heliotropium curassavicum	Salt Helictrope			
à	Hirshfeldia incana	Short-pod Mustard	۔ ا		
Ð.	Lamium amplexicaule	Henbit	1 "		
V	Losthenia gracilis	Common Goldfields	، ا		
	Layla glandulosa	White Layia			•
	Lepidium sp.	Pepperweed			
	Linanttus bellus	Desert Beauty	ι,		
	Linanthus dicholomus	Evening Scow	0		
	Lonicera subspiceta	Johnston's Honeysuckie			
	Melacothrix castomica	California Osadelion	1 "		
0	Malacolhrix clevelandii	Claveland's Malacothrix	0		
	магай тасгосагриз		0		
	магал macrocarpus Маливіит vulgāra`	Wild-cucumber	0		
	маливит vulgara : Matricaria matricarioldes*	Horehound	0		
		Common Pineapple-weed	_ п		
	Mentzelia veatchiona Mezostoria espellia	Veatch's Stack-leak	- 0		
	Microsterie grecilie	Stender Phlox	٠	•	
	Mimulus sp.	Monkeyflower	0		o o
	Nemophila menzeisii	Small-flower Baby BNe Eyes	٥		
Э.	Orobanche bulbosa	Chaoarral Broom-rape	1		

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet Recorder: Sun Bu (mondadi) Person: GPS Unit : _Date: Project: Concentrix Solar Project Map #: Survey Sxn: QCB Protocol Survey # T(ME (24-hour) Temp (F*): Wind (avaimes) drazio. parking uvercast STOWC വളഷ (aux,liga overess! 0122 W 4760жен ayercast. c'ear satchy desta showe: 0.00 paichy. Overcasi dirza. shower clear salchy Community of <u>7:1</u>77.0 shower *العنباء*. aulthy oversast _ dwzle End e car Overpast Habitat On-site (circle): open soils, hilltops, ridges, rock autorops, soil crusts, clay soils, aid roads, various nectar sources Total Nymphalidae (Brushfooted Butterfiles) Hesperiidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryas chalcedona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalia leanira (Wright's Chackerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Sleepy Duskeywing) Chlosyne gabbii (Gabb's Checkerapot) Pyrgus albescens (Checkered Skipper) Phyciodes mylitra (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coertia (Common Buckeye) Polites sabuleti (Sandhill Skipper) Variessa annabella (West Coast Lady). Megathymidae (Glant Skippers) Vanessa atalanta (Red Admiral) Megethymus yuccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) DIMMINING STOP Vanessa virginiensis (Virginia Lady). Nymphalis californica (California Tortoiseshall) Denaidae (Milkweed Butterflies) Danaus plexippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyrs) Coanonympha californica (Common California Ringlet) Pieridae (Whites, Sulphurs) Pieris rapse (Cabbage White) Pontia sisyntbrii (Spring White) Pontia beckent (Beker's White) Pontia protodice (Common White) Anthochens sera (Sara Orangetip)[[]-(O Anthocharis cothura (Felder's Orangetip) Euchloo hyantis (Desert Pearly Marole) 11 Colias eurytheme (Orange Sulphur) Colles harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papillonidae (Śwaltowtaiłs) Notes: Papilio polyxenes (Desart Black Swallowtarl) Papilio eurymedon (Pale swallowfail) 4 Papitio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemie mormo (Behr's Metalmark) Lycaenidee (Heirstreaks and Blues)* Celastrina ladon (Spring Azure) Leptotes marina (Marine Blue) Brephidium exile (Wastern Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hermargus ceraunus (Edward's Blue) Icarie acmon (Acmon Blue) Philotes sonorensis (Sonoran Rive) Cellophrys augustinus (Brown Elfin) Callophrys perplexa (Perplexing Green Hairstreak) Strymon melinus (Gray Hairstreak) Atlides halesus (Great Purple Hairstreak)

EBNUBS - Midker

Potential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Instructions.

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Callinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Amsinckia menziesii
Antirrhimum coutterianum
Antirrhimum nuttellienum
Asclepias fascicularis
Boachera sp.
Catandrinia ciriata
Catochortus concolor
Catyslagia fongipes
Camissoriia sp. (Ellifin A

Camissoriie sp. Czzlufi...
Castilleje exerta
Cautanthus heterophyllus
Cautanthus simulans
Ceenothus cuneatus

Cautenthus simulans
Ceanothus cuneatus
Ceanothus greggii
Ceanothus leucodennis
Chaenactis artemisiifolia
Chaenactis glabriuscula

Collinsia concelor
 Cordylanthus rigidus
 Coreopsis californica
 Corethrogyne fileginfolia

Cryptaniha sp.

Cucurbita foetidissima

Cucurbita sp.

Dicentra chrysantha
 Dichelostemma capitatum
 Dudleva sp.

Emmenantho ponduitiera
 Eriastrum sp.

Ericemerie sp.

Ericemerie sp.

Erigeron foliosus

Eriodictyon trichocalya

Eriogonum fasciculatum

Eriogonum sp.

Eriophyllum sp.
Eriophyllum sp.
Erysismum capitatum
Eschscholalia californica
Eucrypta chrysanthemillolia
Euthamia occidentalis
Garrya vaatchii

o Gilia sp.
c Gnsphalium
c Guillenia lasiophylla
dullenia lasiophylla
dullenia sarolhrae
Heliotropium curassavicum
Hirshfeldia incana
Lamium amplexicaule
Lasthenia gracilis
Layia glandulosa
Lepidium sp.
Linanthus bellus

Linenthus bellus
 Linenthus dichotomus
 Lonicera subspicate
 Malacothrix californica
 Malacothrix clevelandii
 Marah macrocorpus
 Memubium vulgare*
 Malricaria matricarioides*

Matricana matricanologis
 Montzelia veatchlana
 Microsteris gracilis

o Mimulus sp. Qi Nemophila menzelsii O Orobanche bulbosa Rancher's Fiddleneck Coulter's Snapdragon Nuttail's Snapdragon Narrow-leaf Milkweed Rock Cress

Red Maids

Golden-bowl Mariposa Lity

Morning-glory

Gen Cup

Paintbrush

San Diego Jewelflower Payson's Caulanthus Suck Brush

Cup-leaf-blac
Chaparral Whitethorn
White Pincushion
Yellow Pincushion
Clematis

Southern Chinese Houses Dark-Hp Bird's Beak

California Coreopsis Common Sand-aster Companiba

Cryptantha
Calabazülla
Tansy-mustard
Golden Ear-drops
Blue Dicks
Duoleya
Whispering Bells

Woolly star Goldenbush Leafy Daisy Hairy Yesba Santa

Inland California Buckwheat

Buckwheat
Golden-yarrow
Red-stem Storkabitl
Western Walffower
California Poppy
Spotted Hideseed
Western Goldenrod
Canyon Silk Tassel

Canyon Silk Tasser
Giha
Cudweed
California Mustard
Broom Matchweed
Salt Heliotrope
Short-pod Mustard
Henbit
Common Goldfields

Common Goldfields
White Layis
Pepperweed
Desert Beauty
Evening Snow
Johnston's Honeysuckie
California Dandelion
Cleveland's Malecothux
Wid-cocumber

Horehound Common Pineapple-weed Veatch's Stick-leak

Veatch's Stick-leak Slender Phlox Monkeyflower

Small-flower Baby Blue Eyes Chaparral Broom-rape Osmadonia tonella
 Paeonia californica
 Pectocarya sp.
 Phacelia sp.

r Pholistoma membranaceum

☐ Plagiobothrys sp.
 ○ Plantago patagonica
 ○ Platystemon californicus
 ○ Prunus ilicifolis
 ○ Refinesquia neomexicana

Ribes quercelorum
 Romipa nasturtion-aquaticum

Rosa californica
 Saltugilia australia
 Senecio californicus
 Senecio flaccidus

Sisymbrium sp

Salidago californica
Stachys ejugoides

Stephanomena sp.
 Streptanthus campastns
 Stylocline gnaphalioides

Sidalcea malvaetiora

Tetradymia comose
 Thysanocarpus sp.
 Trichoslamma perishii

Tropidocerpum gracile
 Uropappus lindleyi
 Viola purpurea

Osmadenia California Peony Pectocarya Phacelia White Fiesta Flower

Popcomflower
Desert Plantain
Cream Gups
Holly-feat Cherry
Desert Chicory
Oak Gooseberry
Water-cress
Cal fornia Rose

California Rose Southern Gilia California Butterweed Butterweed Checker-bloom Tumble Mustard California Goldenrod

Hedge-nettle Viresthplant Southern Jewelflower Everlashing Nest-straw

Cotton-thorn Fringepod Mountain Bluecurla Siender Dobie-pod

Silver Putts Oak Yellow Violet

Other Flowering Plants:

Laginus brooker Laggiores derenna

Rare Wildlife or Rare Plants:

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Recorder: MINE COUFFER Add'l Person:	0	Date. <u>15 RP21L, 2011</u> GPS Unit : <u>6</u>
Project: Concentrix Solar Project Map #: 20 Survey S	Sxn:	OCB Protocol Survey # 3 of 5
TIME (24-hour) Temp (F*): Wind (avg/max)	x 6c	5ky
1200HRS 69 125		
	<u> </u>	
1300 Hes 72 12-77	Ø	
	. [
	ĺ	clear british overcost chade shower
· · · · · · ·		c est palaty overcast drict o grows
Habitat On-site (circle): open soils filllook (riges) rock outcrops: so	oil crusts.	Clay soils, old roads various nector sources
	Total	Total
Nymphalidae (Brushfooted Butterflies)	Ţ —	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkarspat)	i	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Chackerspot)	1 —	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	<u> </u>	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	1 -	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	 	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)		Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	T	Polites sabuleti (Sandhill Skipper)
Vanesse annabella (West Coast Ledy)	i —	Megathymidao (Glant Skippers)
Vanessa atalanta (Red Admiral)	†·	Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	 	
Vanessa virginiensis (Virginia Lady)	 	Other Butterflies:
Nymphalis californica (California Tortorscanell)	$\overline{}$	WESTERN TAILED BIVE
Denaidae (Milkweed Butterflies)	_	CAUFORNIA SOOTYWING 11
Donaus plexippus (Monarch)		- C75(1000)77
Deneus gilippus (Quaen)	ļ	†
Satyridae (Satyrs)		;
Coencoympha californica (Common California Ringlet)	†·	
Pieridae (Whites, Sulphurs)	 	· · · · · · · · · · · · · · · · · · ·
Pieris rapee (Cabbage White)		† · ·
Pantie sisymbrii (Spring White)		
Pontia beckerii (Beker's White)	í ——	
Pontra protodice (Common White)	1 —	
Anthochens sare (Sara Orangetip)	;	
Anthochans cethura (Felder's Orangetip)	T	
Euchioe hyantis (Desert Pearly Marble)	\	
Colles curytheme (Orange Sulphur)		· — · · · · · · · · · · · · · · · · · ·
Colles harfordii (Harford's Suighur)		i ——— i — i — i — i
Nathalis iole (Osinly Sulphur)	1 . —	
Papilionidae (Swallowtalis)		, Notes:
Papilio polyxenes (Desert Black Swal owtail)	L	MC HCOI HURNED LIAND
Papilio surymedon (Pale swallowtail)		, marine village villa
Papiko rufulus(Western Tiger, Swallowfail)	Γ '-	
Riodiniade (Metaimarks)		· · ··-
Apodemia niormo (Behr's Metalmark)	59	
Lycaenidae (Hairstreaks and Blues)		
Celastrina Isdon (Spring Azure)		
Leptotes merino (Marine Blue)		
Brephidium exile (Western Pygmy Blue)		
Glaucopsyche lygdamus (Southern Blue/Silvery blue)]
Hemiargus ceraunus (Edward's Blue)		
Icaria acmon (Acmon Blue)	3	/ · ·
Philoles sonorensis (Sonoran Blue)		
Callophrys augustinus (Brown Elfin)		
Callophrys perplexa (Perplexing Green Hairstreak)		
Strymon melinus (Gray Hairstreak)		· · ·
Atlides helosus (Great Purple Hairstreak)		
		

Potential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Instructions

Microsteris gracitis

Nemophila menzeisii

Orobanche bulbosa

Mimulus sp.

Stender Phlox

Monkeyflower

Small-flower Baby Bloe Eyes

Chaparral Broom-rape

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantaga patagonica = PP

_	Antirrhinum coulterianum	= AC Collinsia concolor = CC	Cordylor	thus rigidus = CR Plantaga	patagonica = PP
			—		
a		Rancher's Fiddleneck	٥	Osmadenia tenella	Osmadenia
C	Antirchlmum coulterianum	Coulter's Snapdragon	6	Paeonia californica	California Peony
G	Antiminum nutlationum	Nutrall's Snapdragon		Pediocarya sp.	Pectocarya
0	Asciepias fasciculens	Narrow-leaf MJkweed	a	Phacelia sp.	Phacelia
e	Boechera sp.	Rock Cress	ن	Pholistoma exembranaceum	White Fiesta Flower
Э	Calandrinia ciliata	Red Maxis	1 8		Popcomflower
0	Calochorius corcolor	Golden-bowl Mariposa Lify		Plantago patagonica	Desert Plantain
J	Calystegia longipes	Moming-glory	LS.	Platystemon californicus	Cream Cups
Ü	Carrissomo sp.	Sun Cup	- :-	Prunus ilicifolia	Holly-leaf Cherry
0	Castilleje exerta	Paintbrush	٥	Rafinesquia neomexicana	Desert Chizory
c	Caulanthus heterophyllus	San Diego Jewelflower		Ribes quercetorum	Oak Gooseberry
:-	Caulanthus simulans	Payson's Cautanthus	a	Rompa nasturtium-aquaticum	Water-cress
o	Ceanothus coneelus	Buck Brush	- 0	Rosa californica	California Rose
o	Ceanothus greggii	Cup-leaf-lilac	0	Settugika australis	Southern Gilia
n	Ceanothus laucodermis	Chaparral Whitethorn	0	Senecio californicus	California Butterweed
c	Chaenactis artemisiifolia	White Pincushion	6	Senecio flaccidus	Butterweed
O	Citaenactis glabriuscuta	Yellow Pincusaion		Sidalcea malyaeflora	Checker-bloom
c	Clematis sp.	Clematis	, n	Sisymbrium sp.	Tumble Mustard
٥	Collinsia concolor	Southern Chinese Houses	0	Solidago californica	California Goldenrod
v	Cordylanthus rigidus	Dark-tip Bird's Beak	U	Stachys ajugoides	Hedge-nettle
0	Coreopsis californica	California Coreopsis	1 1	Stephanomeria sp.	Wreathplant
0	Corethrogyne filaginifolia	Common Sand-aster	- U	Streptanthus campastris	Southern Jewellower
°	-Cryptantha sp.	Cryptantha	- c	Stytocline gnaphaliqides	Everlasting Nest-straw
~	- Cucurbita (Cetidis sima	Calabazilla	· · · · · ·	Tetradymia comosa	Cotton-thorn
2	Descurainia sp.	Tansy-mustard	0	Thysanocarpus sp.	Fringepod
.;	Dicentra chrysentha	Golden Eas-drops		Trichostemma parishii	Mountain Bluecuris
v	Dicheloslemma capitatum	Blue Dicks		Tropidocarpum gracile	Sleader Dobie-pod
0	Dudleya sp.	Dudleya		Uropappus findleyi	Silver Puffs
O.	Emmenarthe pendulifera	Whispering Bells	2	Viola purpurea	Oak Yellow Violet
э	Eriastrum sp.	Wcolly-star	۰		
o	Eficemérie sp.	Goldenbush			
¢	Erigeron follosus	Leafy Deisy		Other Flowering Plants:	
>	Eriodiczyon trichocatyx	Hairy Yerba Santa	3		
a	Eriogonum fasciculatum	Inland California Buckwheat	9		
Ģ	Erioganum sp.	Buckwheat	0		
9	Eriophyllum sp.	Golden-yarrow	- 0		
U	Erodium eleutarium*	Red-stem Storksbill	0		
A.	Erysismum capitatum	Western Wallflower	0		
0	Eschscholzia californica	Caldomia Poppy	- 5		
c:	Eucrypte chrysenthemitolia	Spotted Hideseed	0		
G	Euthomia occidentalis	Western Goldenrod	- 0	Rare Wildlife or Rare Plants:	
v	Garrya veatchii	Canyon Silk Tassel	G		
0	Gilia sp	Gilia	٥		
5	Gnaphalium	Cudweed	٥		
	Guillema tesiophylla	California Mustard	7		
c.	Gutierrezia sarolliran	Broom Matchweed	٥		
0	Heliotropium curassavicum	Salt Heliotrope	0		
0	Hirshfeldia incana	Short-pod Mustard	۰		
12	Lamium emplexicaule	Henbit	0		
<u>"</u> <	Casthenia gracilis	Common Goldfields	_ ^		
	Layra glandulosa)	White Layia			
0	Lepidium sp	Pepperweed	G.		
0	Linanthus bellus	Desert Beauty			
٥	Linanthus dicholomus	Evening Snow	٠		
0	Lonicere subspicata	Johnston's Honeysuckle	9		
O.	Malacoltrix californica	California Dandelion	٥		
G	Malacolhrix cievelandii Marah mansanamus	Cleveland's Malacothrix	۲.		
21	Marah macrocarpus	Wild-cucumber	t-		
o.	Marubium vulgare*	Horehou nd	2		
٥ -	Matricaria matricarioides*	Common Pinsapple-weed	٧.		
	Mentaciia vestchiane Microstoria macina	Veatch's Stick-leak	- د		

Recorder: MINE COUFFEE Add'l Person:		Date: 15 ARUL, 2011 GPS Unit : 6
Project: Concentrix Solar Project Map #: 3 Survey S	ixn:	QCB Protocol Survey # 3 of 5
TIME (24-hour) Temp (F*): Wind (avgimax) 5	6 CC	
	C>-	
		(clear) patchy evarcase original shower
	2-	
1600 Hes 74 133 12	21	clinar salicity overcust one shower
[600 HBS 76 0-33 6	<u> </u>	clear pointly overcas! departs showe
	ļ	4500' patrify overcast oftens shower
End i	t	Cost patchy crescast criste strate:
Habitat On-site (circle) open soils, hilltogs, ridges, tock outcrops, so		
Nymphalidae (Brushfooted Butterflies)	Total	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	· 	Erynnis funeralis (Funerest Ouskywing)
Euphydryas chalcedona (Henna's Checkerspot)		Erynnis Instits (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	 	Erynnis propertius (Propertius Duskywing)
Chlosyne celifornica (California Patch)		
Chlosyne gabbii (Gabb's Checkerspot)	+	Erynnis brizo (Sleepy Duskeywing) Pyrgus albescens (Checkered Skipper)
Physiodes mylitta (Mylitta Crescent)	<u>. </u>	Hesperia jubia (Jubia Skipper)
Junania coenia (Cammon Buckeye)	⊢ , 	Polites sahuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady)	<u> </u>	Megathymidae (Giant Skippers)
Variessa atalania (Red Admiral)	ĺ	Megalhymus yuccae (Yucca Gant Skipper)
Vanessa cardui (Painted Lady)	-	weganymus yeccae (rucca Gsan; Skipper)
Vanessa virginiensis (Virginia Lady)		Other Butterfiles:
Nymphelis californica (California Tortoiseshell)		*
Danaldae (Milkweed Butterflies)	 	DUNTY SOUGHUE
Danaus plexippus (Monarch)	+	VANESSA SP.
Danaus gilippus (Queen)	Į	CALLEORNIA SOOTYWING 3
Satyridae (Satyre)	 	
Coenonympha californica (Common California Ringlet)	·	· · · · · · · · · · · · · · · · · · ·
Pieridae (Whiles, Sulphure)	 	
Pieris repae (Cabbage White)	 	· · · · · · · · · · · · · · · · · · ·
Pontia sisymbrii (Spring White)	· ·	·
Pontra bockerii (Beker's White)	+	
Portia protodice (Common White)	∤ <i>-</i> -,	
Anthocheris sara (Sara Orangetip)	3	
Anthocharis cethura (Felder's Orangetip)		
Euchloe hyantis (Desert Pearly Marble)	:::	
Colias eurytheme (Orange Sulphur)	} ~-	
Colias harfordii (Harford's Sulphur)		
Colles venerals (mariolo s Sulphur)	1	··
	7	
Nathalis (cle (Dainty Sulphur) Papilionidae (Swallowtails)	<u> </u>	Notes:
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails)	<u> </u>	
Nathalis (ole (Dainty Sutphur)	J 	MCBJQ3 JACHRABBIT
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail)	J 	MC8503 JACH288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowfail) Papilio eurymedon (Pale swallowfail)	J	MC 6503 JACH 288617
Nathalis içle (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowfail) Papilio eurymedon (Pale swallowfail) Papilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks)		MC 6503 JACH 288617 "
Nethalis içle (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowfail)	<u>, , , , , , , , , , , , , , , , , , , </u>	MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark)		MC 6503 JACH 288617
Nethalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues)		MC 6503 JACH 288617
Nethalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Pepilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Pepilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure) Leototes marina (Marine Blue)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Pepilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure) Leolotes marina (Marine Blue) Brephidium exila (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Pepilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure) Leototes marina (Marine Blue) Brephidium exile (Western Pygmy Blue)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina fadon (Spring Azure) Leototes marina (Marine Blue) Breptiidium exile (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Homargus coraunus (Edward's Blue)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina fadon (Spring Azure) Leototes marina (Marine Blue) Breptiidium exila (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Homargus coraunus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure) Leolotes marina (Marine Blue) Breptiidium exila (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Homargus coraunus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sanorensis (Sonoran Blue) Callophrys augustinus (Brown Effin)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Cetastrina ladon (Spring Azure) Leolotes marina (Marine Blue) Breptidium exile (Wastern Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Herniargus ceraurus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Effin) Callophrys perplexe (Perplexing Green Hairstreak)		MC 6503 JACH 288617
Nathalis iole (Dainty Sutphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure) Leolotes marina (Marine Blue) Breptiidium exila (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Homargus coraunus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sanorensis (Sonoran Blue) Callophrys augustinus (Brown Effin)		MC 6503 JACH 288617

Instructions:

Matricaria motricarioides*

Mentzelia vealchiana

Nemophila menzeisii

Orobanche bulbosa

Microsteris gracilis

Minulus sp.

Common Pineapple-weed

Small-flower Baby Blue Eyes

Chapatral Broom-rape

Vealch's Stick-leak

Siender Phiox

Monkeyflower

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterionum	= AC Collinsia concalar = CC	Cordylanthus rigidus = CR Plantago p	otaganica = PP
		- , -	
Amsınckia menziesii	Rancher's Fiddleneck	 Osmadonia tenella 	Osmadenia
Antirrhimum coulterianum	Coulter's Snapdragon	 Paeonia californica 	Catifornia Peony
 Antiminum nuttallianum 	Nuttall's Snapdragon	 Péctocarya sp 	Pectocarya
 Asclepias fascicularis 	Narrow-loaf Milkweed	 Phacelia sp. 	Phaceira
 Boechera sp. 	Rock Cress	э <u>Рэскіясына наша</u> ыгаласаыт	White Fiesta Flower
 Calandonia ciliata 	Red Maids	Plagiobothrys sp.	Popcomitawer
Calochortus concotor	Golden-bowt Manposa Lily	 Plantago patagonica 	Desert Plantain
Calystegra longipes	Morning-glory	 Platystemon californicus 	Cream Cups
 Camissonia sp. 	Sun Cup	→ Prunus ilicifolia	Holly-feaf Cherry
o Castilleja exerta	Paintbrush	 Rafinesquia neomexicana 	Desert Chicory
 Catlanthus helerophyllus 	San Diego Jewelflower	 Ribes quercetorum 	Oax Gooseberry
 Caulanthus simulans 	Payson's Caulanthus	 Rompe nasturtium-aquaticum 	Water-cress
 Ceenothus curieatus 	Suck Brush	 Rosa californica 	California Rose
 Ceanothus greggii 	Cup-leaf-lilac	 Saltugilia australis 	Southern Gilia
Caanothus leucodermis	Chaparral Whitethorn	 Senecio celifornicus 	California Butterweed
 Chaonactis artemisufolie 	White Pincushion	 Sanacio flaccidus 	Sutterweed
Chaenactis glabifuscula	Yellow Pincushion	: Sidalcee malvee/lora	Checker-bloom
 Clematis sp. 	Clematis	 Sisymbrium sp. 	Tumble Mustard
 Collinsia concolor 	Southern Chinese Houses	→ Solidago californica	California Goldenrod
· Cordylanthus rigidus	Dark-tip Bird's Beak	 Stachys ajugoides 	Hedge-nettle
 Careopsis californica 	California Coreopsis	 Stephanomeria sp. 	Wreathplant
 Corothrogyne filaginifolia 	Common Sand-aster	 Streptanthus campestris 	Southern Jewelflower
Cryplentha sp.	Cryptantha	 Stylocline gnaphalioides 	Everlasting Nest-straw
> Gusurbita foetidissime	Catabazilla	 Tetradymia comosa 	Cotton-thorn
 Descurainia sp. 	Tansy-mustard	 Thysanocarpus sp. 	Fringepod
 Dicentra chrysantha 	Golden Ear-drops	 Trichostemma porishii 	Mountain Bluecurls
 Dichelostemma capitatum 	Blue Dicks	 Tropidocarpum gracile 	Sicnder Dobæ-pçd
n Dudleya sp	Oudleya	→ Uropappus lindleyi	Sitver Poffs
 Emmenanthe penduktera 	Whispering Balls	 Viola purpurea 	Oak Yellow Violet
 Enastrum sp. 	Woolly-star	c	
o Ericameria sp.	Goldenbush		
 Frigeron foliosus 	Leafy Daisy	 Other Flowering Plants; 	
 Eriodialyon trichocalyx 	Harry Yerba Santa	6	
 Eriogonum fasciculatum 	Inland California Buckwheat	9	
 Enogonum sp. 	Buckwheat	2	
 Eriophyllum sp. 	Golden-yarrow	9	
 Erodium cicularium* 	Red-stern Storksbill	c:	
Erysismum capitatum	Western Wallflewer	v	
Eschscholzia çalifornică	California Poppy	•	
Eucrypta chrysanthemifolia	Spotted Hideseed	٥	
Euthamia occidentalis	Western Goldenrod	 Rare Wildlife or Rare Plants: 	
○ Garrya veatchii	Canyon Silk Tassel	o	
o Gille sp	Gália Gudunad	٥	
Gnaphalium Guilleais teolaubulte	Cudweed	0	
Guillenia lasiophylla	California Mustard	o o	
Gutierrezia serothyae	Broom Matchweed	r.	
Heliotropium curassavicum	Sat Heliotrope	17	
Hirshfeldia incana Aggregation incana	Short-pod Mustard	9	
 Lamum amplexicaule Casthonia gracilia — 	Henbit	a	
	Common Goldfields	◊	
<u> </u>	White Layia	c	
	Pepperweed	c .	
	Desert Beauty	0	
	Evening Snow	15	
 Lonicera subspicata Malacothrix catifornica 	Johaston's Honeysuckle	c	
	California Dandelion		
•	Cleveland's Malacothrix	9	
 Marah macrocarpus Marrubium vulgare* 	Wild-cucumber	0	
Marrubium vulgare* Afntnossin metroppedee1	Horehound Common Biographic wood		

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С

Recorder: Antone to (2015/11/92 Add Person: N	<u> </u>
Project: Concentrix Solar Project Map #: 3 Survey Sxn	Concentrix QCB Protocol Survey # 3 of 5
TIME (24-hour) Temp F' : Vind (avgimax) % CC	
	coar palony copicasi crizzle scower
	car calony (copicalu druzile shove)
430 70 64112 0	
1230 72 6/12 8	
1330 74 1620	get) patch, desirant drive shows
1430 74 23.2/8 0	(Geyr) partity originals district shower
End 1630 24 3,2/6 0	
	cles gality unevent drove shower
Habitat On-site (circle): doen soile, Villtopa (ridge), rock outcrops) soil o	rusts, day soils (old roads, various nectar sources Total
Nymphalidae (Brushfonted Butterfiles)	Hesperlidae (Skippers)
Euphydryas aditha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskyving)
Euphydryas chalcedona (Henne's Checkerspot)	Erynnis Instis (Sad Duskywing)
Thessalia Isanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis briza (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspol)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hasperia jubra (Jubia Skipper)
Junonia coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady)	Megathymidae (Glant Skippers)
Vanessa atalanta (Red Admirat)	Megathymus yuccae (Yucca Giant Skipper)
Vanessa cerdui (Painted Lady)	<u> </u>
Vanessa virginiensis (Virginia Lady)	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	gosty Dusky winy 11 a
Danaidae (Milfeweed Butterflies)	Wind Jamessa - Flerish 1
Danaus plexippus (Monarch)	Unia Diskywing the 11 d
Danaus gilippus (Queen)	
Satyridae (Satyrs)	
Coenonympha celifornica (Common Catifornia Ringlet)	
Pleridae (Whites, Sulphurs)	
Pieris rapae (Cabbage White)	
Pontia sisymbrii (Spring White)	<u> </u>
Pontia beckerii (Beker's White)	à ·
	
Pontia protodice (Common While)	<u> </u>
Anthocharts sara (Sara Orangetip)	1 3
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Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip) Euchloe hyantis (Desert Pearly Marole) Collas eurytheme (Orange Sulphur) Collas harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papilionidae (Swallowtails) Papilio polyxenas (Desert Black Swallowfail) Papilio eurymedon (Pale swallowfail) Papilio rutulus/Western Tigar Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Calastina tadon (Spring Azure) Lepiates marins (Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsycho hyddamus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue) Icaria acnion (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys eugustinus (Brown Ellin) Callophrys perplexa (Perplexing Green Hairstreak)	Notes: AGBS 1 - Si) Jack Rabbit AGHL 1 50 Hornad Grand AGHL 2 50 Hornad Lizard AGNI 1 10 Deart Wooderst Nest AGNI 3 11 AGNI 3 11 AGNI 4 AGNI 5 11

Instructions.

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterionum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Antirrhinum coulterianum = AC Collinsia concalor =			
•	Amsinckia menziesii	Rancher's Fiddleneck	
ō	Antirrhimum coulterlanum		
	Antimhinum nuttallianum	Coulter's Snapdragon	
D	Asclepias fascicularis	Nuttall's Snapdregon Narrow-leaf Milloweed	
	насмирав такиситать Вовећега вр.	Rock Cress	
ū	Calandonia ciliata		
0	Calorionna cinara Calochortus concolor	Red Mards	
	•••	Golden-bowl Manposa Lily	
2	Calyslegia longipes Gamissonia sp.	Morning-glory	
٥	Castilleja exerta	Sun Cup Paintbrush	
×	Caulanthus heterophytius	San Diogo Jewelflower	
0	Caulanthus simulans	Payson's Caulanthus	
n	Ceanoihus cuneatus	Buck Brush	
	Ceanothus greggii	Cup-leaf-lilac	
	Ceanothus leucodermis	Chaparral Whitethorn	
2	Chaenactis ertemisifolia	White P:noushion	
ó	Chaenactis glabriuscula	Yellow Pincushion	
0	Clematis so	Clematis	
Ü	Collinsia concolor	Southern Chinese Houses	
Ö	Cordylanthus rigidus	Dark-Up Bird's Beak	
Č	Coreopsis californica	California Coreopsis	
ò	Corethrogyne filaginifolia	Common Sand-asier	
۵	Cryptantha so.	Cryptantha	
	Cucurbita faetidissima	Calabazilla	
ñ	Descursinia sp	Tensy-mustard	
0	Dicentra chrysantha	Golden Ear-drops	
à	Dicheloslemina capitatum	Blue Dicks	
0	Dudleya so	Dudleya	
ō	Emmenanthe pendulifora	Whisporing Bells	
ä	Eriastrum sp.	Woolly-star	
'n	Ericemena sp.	Goldenbush	
15	Erigeron foliosus	Leafy Daisy	
ě.	Eriodictyon trichocalyx	Hairy Yerba Santa	
ò	Enogonum fesciculatum	In/and California Buckwiteat	
•	Eriogonum sp.	Buckwheat	
o	Enophy#um sp.	Golden-varrow	
a	Erodium cicularium*	Red-stem Storksbill	
Ċ.	Erysismum capitatum	Western Wallflower	
	Eschscholzia californica	California Poppy	
rs.	Eucrypta chrysanthemifolia	Spotted Hideseed	
0	Euthamia occidentalis	Western Goldenrod	
J	Garrya voatchii	Canyon Silk Tasset	
•	Gira sp.	Gilra	
::	Gnaphalium	Cudweed	
₹-	Guillenia lasioph ylla	California Mustard	
0	Guherrezie sarolbrae	Broom Matchweed	
O	Heliotropium curassavicum	Salt Heliotrope	
9	Hirshfeldia incana	Short-ped Mustard	
÷.	Lamium amplexicaula	Henbit	
٠	Lastherija gracilijs	Common Goldfields	
8	Layia glandulosa	White Layia	
e e	Lapidiam sp.	Pepperweed	
ø	Linanthus bedus	Desert Beauty	
OF .	Linanthus dicholomus	Evening Snow	
п	Lonicera subspicata	Johnston's Honeysuckte	
o	Malacothrix californica	Catifornia Dandelion	
c	Malacothrix clevelandii	Cleveland's Malacothrix	
2	Marah macrocarpus	Wild-cucumber	
0	Mamubium vulgare*	Horehound	
0	Metricaria matricarioides*	Common Pineapple-weed	
O.	Montzolia veatchiana	Vealch's Stick-leak	
-	Macanataria araaika	O local ex Distory	

Slander Phiox

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Microsteris gracilis

Nemophila menzeisii

Orobanche bulbosa

Mimulus sp.

Osmadonia (enella	Osmadenia
Pagonia californica	California Peony
Pactocarya sp.	Pectocarya
Phacelie sp.	Phacelia
Pholistoma membranaceum	White Fiesta Flower
Plagiobothrys sp.	Popcomflower
Plantago patagonica	Desert Plantain
Platystomon californicus	Cream Cups
Prunus ilicifolia	Holly-feaf Cherry
Rafinesquia neomexicena	Desert Chicory
Ribes quercelorum	Qak Goosebarry
Rompa nesturtiunt-aquaticum	Water-cress
Rosa californica	California Rose
Saltugilia australis	Southern Cilia
Senecio californicus	California Butterweed
Senecio flaccidus	Butterweed
Sidalcea malvaettora	Checker-bloom
Sisymbrium sp.	Tumble Mustard
Solidago californica	California Goldenrod
Stachys ejugoides	Hedge-nettle
Stephanomeria sp.	Wreathplant
Streptanthus compestris	Southern Jewelflower
Stylocline gnaphatioides	Everlasting Nest-strav
Tetradymia comose	Cohon-thorn
Тћучалосегриз sp.	Fringepod
Trichostemma parishii	Mountain Otuecuris
Tropidocarpum gracile	Slender Dobie-pod
Uropappus lindleyi	Silver Puffs
Viola purpurea	Oak Yallow Violet
Other Flowering Plants:	

Rare Wildlife or Rare Plants:

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${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey -- Field\ Data\ Sheet}$

Recorder: Margic Mull, 39 Add'l Person:	Oate: 4-15-11GPS Unit _ Z
Project: Concentrix Solar Project Map #: 4 Survey S	2
TIME (24-hour) Temp (F1): Wind (avg/man) :	GE Sky
1	Close poticity divercass chuzile shaker
F	
1520 76 F 2-5 j	Ocar parchy overcast draza shower
	Desir patchy overcost contrib shower
	doze paintly conspet driggs shower
	K'ea: palichy evercasi diferio shower
End	- Dalicies Control Shows
Habitat On-site (circle) poen soils) hilltop, ridges rock outcoos so	
Nymphalidae (Brushfooted Butterflies)	Hesperildae (Skippers)
Euphydryas acitha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryns chafcedonn (Henne's Checkerspot)	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erypnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabbis Checkerspot)	Pyrgits albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady)	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)	Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	
Vanessa virginiensis (Virginia Lady)	Other Butterfiles:
Nymphalis californica (California Tortoiseshell)	
Danaidae (Milkweed Butterflies)	
Danaus plexippus (Monarch)	
Danaus gilippus (Queen)	
Satyridae (Satyrs) Coeronymphe californice (Common California Ringlet)	
Plaridae (Whites, Sulphurs)	
Pieris rapae (Cabbage White)	- · · · · · · · · · · · · · · · · · · ·
Pontia sisymbni (Spring White)	· · · · · · · · · · · · · · · · · · ·
Pontia beckerii (Běker's White)	
Pontia protodice (Common White)	<u> </u>
Anthochans sare (Sara Orangelip)	1141 (6)
Anthochans cethure (Felder's Orangetip)	
Euchico hyantis (Desert Pearly Marble)	<u>iu 3</u>
Colles eurytheme (Orange Sulphor)	· · · · · · · · · · · · · · · · · · ·
Colles harfordii (Harford's Sulphur)	
Nathalis iole (Dainty Sulphur)	
Papillonidae (Śwallowtalis)	Notes:
Papilio polyxenes (Desert Black Swallowfail)	§ 10
Papilio eurymedon (Pale swallowtail)	1 (h
Papilio rululus(Western Tiger Swallovitail)	
Riodiniade (Metalmarks)	
Apodemia mormo (Behr's Metalmark)	HAT THE FULL DEFERENCE THE TENT AND IT (AS)
Lycaenidae (Hairetreaks and Blues)	
Celastrina tadon (Spring Azure)	<u> </u>
Leptotes marina (Marine Blue)	
Brephidium exila (Western Pygmy Blue)	ļ
Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hernrangus ceraunus (Edward's Blue)	·
tearia acmon (Acmon Blue)	· - ·
Philotes sonorensis (Sonoran Blue)	
Catophrys augustinus (Brown Elfin)	
Callophrys perplexa (Perplexing Green Hairstreak)	
Strymon melinus (Gray Hairstreak)	
Allides halasus (Great Purple Hairstreak)	
	

Instructions:

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Antirrhinum coulterianum = AC Callinsia concolor = CC Cardylanthus rigidus = CR Plantago patagonica = PP

Amsinckia menziesii

Antimhimum coulterianum

Antimhinum nuttallianum

Asclepias fascicularis

Boechera sp.

Calandrinia ciliata

Calcehorius concolor

Calyslegia longipes:

Camissonia sp.

Castilleja exerte

Caulenthus haterophyllus

Caulanthus simulans

Ceanothus cuneatus : 1

Ceanothus groggii

Coenathus laucodormis Chaenactis artemisiilolia

Chaenactis glabriuscula

Clematis sp.

Collinsia concolor

Cordylenthus rigidus

Careapsia californica

Corethrogyne filaginifolia

💢 Cryptantha sp.

Cucurbita foctidissima

→ Descurzinia sp

Dicentre chryşantha

Dicholostemma capitatum

Dudleya sp.

📈 Emmenanthe pengulifera

Enastrum sp.

Ericamenta so.

Erigeron foliosus

Eriodictyon (richocalyx

Eriogonum fasciculatum

Епоролит вр.

Enophyllum sp.

Erodium cicuterium*

Erysismum cepitatum

Eschscholzia californica

Eucrypta chrysanthemifolia

Euthamia occidentalis

Garrya veatchii

Gilia sp.

Gnaphaliam

Guirlenia lasvophyria

o Gutierrezia sorothrae

Heliotropium curassavicum

X Hirshfeldia incana

Lamium amplexicaule

Lasthenia gracilis

Layia glandulosa Lepidium sp. 🔑 🐴 🕌

Unanthus bellus Linenthus dichotomus

Lonicera subspicato

Malacothrix californica

Malacothrix clavelandii

Marah macrocarpus ò Marrubium vulgare*

Matricaria matricarioides* o

Mentzetia vaatchiana o

Microsteris gracilis

Mimulus so.

Memophita monzeisii:

Orobanche bulbosa

Rancher's Fiddleneck

Coulter's Snapdragon Nuttail's Snapdragon.

Narrow-leaf Mckweed

Rock Cress

Red Maids

Golden-bowl Mariposa Lily

Morning-glory

Sun Cup Paintbrush

San Diego Jawelflower

Payson's Caulanthus

Buck Brush

Cup-leaf-litac

Chaparral Whitethorn

White Pungushion

Yellow Pincushion

Clematis

Southern Chinese Houses

Dark-tip Bird's Beek

California Coreopsis

Common Sand-aster.

Cryptantha Calabazilla

Tansy-musterd

Golden Ear-drops

Blue Dicks

Dudleya

Waispening Bells.

Woolly-star

Goldenbush

Leafy Daisy

Hairy Yerba Santa

Inland California Buckwheat

Buckwheat

Golden-yarrow

Red-stem Storksbill

Western Wallflower

California Popovi

Spotted Hideseed

Western Goldenrod

Canyon Silk Tassel

Gilia

Cudweed

California Mustard

Broom Matchweed

Sait Heliotrope

Short-pod Mustard

Henbit

Common Goldfields

White Layia Pepperweed:

Desert Beauty Evening Snow

Johnston's Honeysuckle

California Dandelion

Cleveland's Malacothrix Wild-cucumber

Ho/ehound

Common Pineapple-weed.

Veatch's Stick-leak

Slender Phlox Monkeyflower

Small-flower Baby Blue Eyes.

Chaparral Broom-rage

Osmadenia tencila

Paeonia californica

Pectocarya sp.

Phacelia sp. 4 5-45 ٠. Pholistoma membranaceum

Plegiobothrys sp.

Plantago paragonica

Platystanton californicus 4:

Prunus ilicitotra

Rafinesquia neomexicana

Ribes quercetorum

Rompa nasturtium-equaticum

Rosa californica.

Saltugika australis

Senecio californicus

Senecio flaccidus

Sidalcea malvaeliora

Sisymbrium sp.

Solidago californica

Stachys ajugoidos

Stephanomerie sp. Streptanthus campestris

Х Stylocline onaphalicides

Tetradimia comosa: Ö Thysanocarpus sp.

o Trichoslemma perishii Ö

Tropidocarpum gracile ブ Uropappus lindleyi Viola purpurea:

o

o

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1)

Ö

Osmadenia

Caldomia Paony

Pectocarya Phacelia

White Fiesta Flower

Popcomflower

Desert Plantain

Cream Cups

Holly-leaf Cherry

Desert Chicory

Oak Gooseberry

Water-cress

Catifornia Rose Southern G:lia

California Sutterwead

Butterweed Checker-bloom

Tumble Mustard California Goldenrod

Hcdge-nettle

Wreathplant Southern Jewelflower

Everlasting Nest-straw

Cotton-thorn

Fringepod Mountain Bluecurls

Stender Dobie pcd

Silver Puffs Cas Yellow Violet

Other Flowering Plants:

Penstemon claveland. Leglosiphin lemmon; Bowlesia Mcaha

Scrophuleng

Rare Wildlife or Rara Plants: MMBO 1 230 plants Whantous bellus

Recorder: 1214 Osbovha Add'l Person	n:		Date: 4/15/2011	GPS Unit :	7
Project: Concentrix Solar Project Map #: S	urvey 5	хп: <u>4</u> -	₹3 QCB Protocol Survey#	of	5
TiME (24-hour) Temp (F1): Wind (avg/max)	į X	cc .	Sky		
1 sun 1030 69 5,2/2	4 -		rios patchy evercast erozin	stoker	
1145 67 5,7/12,4	,	-	County overtees grizzle	shower	
1345 77 5-110	<u>, </u>	<u> </u>	—— ——		
	i	-· ⊦	Gear Sodisty average drazie	270.40°	
1410	-	——; .		3), DAGA	
1512 4 fortunge		- /		Shower	
1512	+	— .	cleg patchy overcast dazzle	ahower	
End 1600 74 4/6			clear — patichy overcast crizale	shows-	
Habitat On-site (circle): open soils, hilltops, ridges, rock out	crops, so	il crusts, c	lay soils, old roads, various nectar sources		
are 4 area \$	<u>-£3.</u>	Total	T'	- V -	Total
Nymphandse (Brushrooted Buttermes)		<u>!</u>	Hesperiidae (Skippers)	- 4-	
Euphydryas cditha (Quino Checkerspot)		i —	Erynnis funeralis (Funereal Duskywing)	↓	
Euphydryas chalcedona (Henne's Checkerspot)	<u> </u>	.L	Erynnis tristis (Sad Duskywing)	[14
Thessalia lennira (Winght's Checkerspot)			Erynnis propertius (Propertius Duskywing) //		_!2//_
Chlesyne californica (California Patch)		 .	Erynnis brizo (Sleepy Daskeywing)		-17
Chlosyne gabbii (Gabb's Checkerspot)	1	-	Pyrgus albescens (Checkered Skipper)	↓ .	/
Phyciodes mylitta (Mylitta Crescent)			Hesperia jubia (Jubia Skipper) Polites sabuleti (Sandbill Skipper)	\'	-1-74/1/
Junorna coenia (Common Buckeye) V# Vanessa annabella (West Coast Lady)		7	/ Megathymidae (Glant Skippers)	1	<u> </u>
Vanessa arikibibia (West Coast Lacy) Vanessa atalanta (Red Admiral)	1	ļ 	Megathymidae (Glant Skippers) Megathymus yuccae (Yucca Glant Skipper)	+	
Vanessa dadaria (Rec Admiral) Vanessa cardui (Painted Lady) //	١		magainymas yuccae (Tucca Giant Skipper)	-y	
Vanessa virginiensis (Virginia Lady)	١	2	Other Butterflies:		-
Nymphalis californica (California Tortoiseshell)	 	 	24-	≱ -3	٠,
Danaldse (Milkweed Butterflies)	1	 	H. Galladowa 1	i- i- i	1./.
Danaus plexippus (Monarch)	+	<u> </u>	The self-tendent		-177 -
Danaus grippus (Queen)	1		A hallower	7	4/11
Satyridae (Satyre)	┪──	 		•	-: / /
Coenonympha californica (Common California Ringlet)	 	:	†		
Pleridae (Whites, Sulphurs)	·· †	'	i i	1/	1
Pieris rapae (Cabbage White)	··F-·		· · · · · · · · · · · · · · · · · · ·		:
Pontia sisymbrii (Spring White)		·			•
Pontia beckeni (Beker's White)	Ţ	<u> </u>	·		Τ'
Pontia protodice (Common White) / /	1	1/1//			`
Anthochoris sore (Sara Orangelip) 449-71 1		2/1/			.1 .
Anthocharis cothura (Felder's Orangotip)	1	7 /			
Euchloc hyants (Oeserl Pearly Martie)// ///		2/3//			
Collas eurytheme (Orange Sulphur)	}	9///			
Collas harfordii (Harford's Sulphur) /		14/			Į.
Nathalis iole (Dainty Sulphur)		ļ <u>. </u>	· 		
Papilionidae (Swallowfalls)		i	Notes:		.!
Papitio polyxenes (Desert Black Swallowfail)	\ \		KOCRUI n=2		
Papilio eurymedon (Pale swallowtail)	__		KO CK 62 == 2		
Papilio rutulus(Western Tiger Swallowtail)	<u></u> }		KOCK 03 nº 10 in 10		
Riodintade (Metalmarks)	, J.a.	ا مرار مرسر ا	1KOCR 4 30 in 10	sae	
Apodemis mormo (Behr's Metalmark)	1,00	69242		-	
Celestrine ladon (Spring Azure)		i i	KOCKOS NES	·	<u> </u>
Leptotes marina (Marine Blue)	-		KOLROZ H. 2		•
Brephidium exile (Western Pygmy Blue)		\vdash	<u> </u>		i
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	·-[·				+
Hemiargus caraunus (Edward's Blue)					
keria acmon (Acmon Blue)	/ · }	2//			
Philotes sonorensis (Sonoren Blue)	f f	1/			
Callophrys augustinus (Brown Effin)	∵ ! -∵-∤				:
Callophrys perplexa (Perplexing Green Hairstrepk)	+		- . 		- -
Strymon melinus (Gray Hairstreak)	-{·				1
Attides halosus (Great Purple Hairstreak)	·· / 	—···—			
	. / 🗆	- $-$ t			

Instructions:

Mantzelia veatchiane

Nemophita menzeisii

Orobanche bulbosa

Microsteris gracilis

Mimulus sp.

- Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.
- ► PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago potagonica = PP

Li.	Amsinckia menziesii	Rancher's Fiddleneck	1 5	Osmadenia tenetta	Osmađenia
r:	Antirrhimum coulterianum	Coulter's Snapdragon	"	Paeonia californica	California Peony
e.	Antirrhinum nuttallianum	Nuttair's Snapdragon		Pedocarya sp.	Pectocarya
0	Asclepies fascicularis	Narrow-leaf Milkweed	٥	Phacelia sp.	Phacelia
ā	Boechers sp.	Rock Cress		Pholistoma membranaceum	White F:esta Flower
0	Calandrinia ciliata	Red Maids		Plapiobothrys sp.	Popograflower
o	Calochortus concolor	Golden-bowl Mariposa Lily	- 1	Plantago patagonica	Desert Plantain
e.	Calystegia longipes	Morning-glory	5	Platystemon californicus	Cream Cups
o	Camissonia sp.	Sen Cup		Prunus ilicifalia	Holfy-leaf Cherry
n	Castilleja exerta	Paintbrush	ءَ ا	Refinesquie neomexicana	Desert Chicory
o	Caulanthus heterophyllus	San Diego Jewelflower		Ribes quercelorum	Oak Gooseberry
o	Caulanthus simulans	Payson's Caulanthus	r:	Remipa nasturtium-aquaticum	Water-cress
e.	Oranolhus cuneatus	Buck Brush		Rosa celifornica	California Rose
سء	Ceanothus greggii	Cup-leaf-lilac	5	Saftugilla australis	Southern Gilta
ā	Çeanolhus leucodermis	Chaparral Whitelhom	- 6	Senecio californicus	Catifornia Butterweed
o	Chaenactis artemistifolia	White Pincoshian		Senecio flaccidus	Butterweed
0	Chaenactis glabriuscula	Yellow Pincushion		Sidalcea malvaeflora	Checker-bloom
	Clemetis sp	Clematis	5	Sisymbrium sp.	Tumble Mustard
q^{-}	Collinsia concolor	Southern Chinese Houses		Solidago estifornica	California Goldenrod
э	Cproylanthus rigidus	Dark-tip Bird's Beak		Stachya ajugoides	Hedge-nettle
E,	Coreopsis californica	California Coreopsia	, c	Slephanomeria sp.	Wreathplant
č	Carethrogyne filaginitatia	Common Sand-aster	2	Streptanthus cempestris	Southern Jewelflower
יעו	Cryptenthe sp	Cryptaatha		Styloclina gnabriatioides	Everlasting Nest-straw
ō	Cucurbita foetidissima	Calabazi la		Tetradymia comosa	Cotton thom
:1	Descurainia sp.	Tansy-mustard		Thysanocarous sp.	Fringepod
ø	Dicentra chrysantho	Golden Ear-drops	- 0	Trichostemma parishii	Mountain Bluecuris
0	Dichelostemma capitatum	Blue Dicks	0	Tropidocarpum gracile	Slender Dobie-pod
2	Oudloya sp.	Ducleya	. ا	¹ kropappus lindleyi	Silver Puffs
9	Emmenanthe pendulifera	Whispering Belts		Viola purpurea	Oak Yellow Violet
0	Epaštrum sp	Woolly-star	- 5		
1	Ericameria sp.	Goldenbush	9		
c	Erigeron foliosus	Lealy Daisy	٥	Other Flowering Plants:	
ø.	Eriodictyon Inchecatyx	Hairy Yerba Santa	0	•	
9	Eriogonum fasciculatum	Infand California Buckwheat	5		
n	Елодопил вр.	Buckwheat	ن ا		
91	Eriophyllum sp.	Golden-yarrow	٥		
٥	Erodium cicutarium*	Red-stem Storkshill	- 0		
0	Erysismum capitatum	Western Wallflower	0		
9	Eschacholzia californica	California Poppy			
0	Eucrypta chrysanthemifolia	Spotted Hideseed	U		
o	Euthamia occidentalis	Western Goldenrod	0	Rare Wildlife or Rare Plants:	
C	Garrya voatchu	Canyon Silk Tassel	٠,		
0	Gilka sip	Gilia	::		
0	Gnaphalium	Cudweed	a		
г.	Guillenie lasiophylla	California Mustard	9		
U	Gutierrezia sarethrae	Broom Matchweed	0		
0	Heliotropium curassovicum	Salt Hetiotrope			
n	Hirshigkua incana	Short-pod Mustard	-0		
Q.	Lamium amplexicaule	Henbi1	c		
v	Lasthenia gracilis	Common Goldfields	0		
M	Tayia glandulosa	White Layla	o		
o	Lepidium sp.	Pepperweed	2		
O	Linanthus balluş	Desert Beauty	0		
O	Linanthus dichotomus	Evening Snow	0		
c	Lonicera subspicata	Johnston's Honeysuckle	- 4		
r)	Malacothnx californica	California Dandellon	e e		
¢	Malacothrix clevelandii	Cleveland's Malacothrix	r.		
a	Mareh macrocerpus	Wad-cucumber	٥		
o.	Marrubium vulgare*	Horehound	٥		
6	Matricana metricarioldes	Common Pineapple-weed	٦ ا		

Veatch's Stick-leak

Small-llower Baby Blue Eyes

Chaparral Broom-rape

Slender Phlox

Monkeyflower

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Quino Checkerspot Butterfly Protocol Survey — Field Gata Sheet Recorder: Eun Berson. _ Date: **GPS Unit** Concentrix Solar Project Map #: Survey Sxn: QCB Protocol Survey # TIME (34-hour) Wind (Avg/met) ೧೯೯೯/101 duzze stxwa dead colchy ownest. diizzle rice. drizzio patterny overcast patchy PERMIN detable patchy overtast: drizek CON uutelm 150 e aw patchy очегодза Habitat On-site (circle); open soits, <u>hilltops, noges, rock</u> outcrops, <u>soit crusts, clay s</u>oits, old <u>roads, various</u> nect<u>ar sou</u>nces Total Nymphalidae (Brushfooted Butterfiles) Hesporiidao (Skippers) Euphydryas aditha (Quino Chackerspot) Erynnis funeralis (Funereal Duskywing) Emphydryas chakedona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalia leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Sleepy Duskeywing) Chlosyne gabbii (Gabb's Checkerspot) Pyrgus albescens (Checkered Skipper) Phyciodes mylitia (Mylitte Crescent) Hesperia jubia (Jubia Skipper) Junonia coenia (Common Buckeye) Polites sabuleti (Sandhill Skipper) Variossa annabella (West Coast Lady Megathymidae (Giant Skippers) Vanessa ofalonta (Rod Admiral) Megalhymus yuccae (Yuoca Giant Skipper) Vanessa cordui (Painted Lady) Comman southwin Vanessa virginiensis (Virginia Lady) Other Butlerfiles: Nymphalis californico (Cal fornia Tortoisesheil) Danaidae (Milkweed Butterfiles) Danaus plexippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyrs) Coenonympha californics (Common California Ringlet) Pleridae (Whites, Sulphurs) Pions rapae (Cabbage White) Pontia sisymbra (Spring White) Pontia beckerii (Beker's White) Pontia protodko (Common White) Anthocharis sara (Sara Orangetip) Anthochans cethura (Felder's Orangetip) Euchloe hyantis (Desert Pearty Marble) Colias ourytheme (Orange Sulphur) Collas harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papilionidae (Swallowtaits) Notes: Papilio polyxenos (Desert Black Swallowtail) Papilio eurymedon (Pale swallowfail) (61<u>8</u>0-(8.0 Papilio rutulus(Western Tiger Swallowteil) Male, (19<u>51)</u>27 Riodiniade (Metalmarks) Lycacnidae (Hairstreaks and Blues) Cetastrina ladon (Spring Azure) Leptotes manna (Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemigrgus ceraunus (Edward's Blue) Icaria semon (Aemon Blue) Philotes sonorcrisis (Sonoran Blue) Cellophrys augustinus (Brown Elfin) Callophrys perplexe (Perplexing Green Harrstreak) Strymon melimus (Gray Harrstreak) Atlides halesus (Great Purple Hairstreak)

cential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

aructions.

Orobanche bulbosa

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

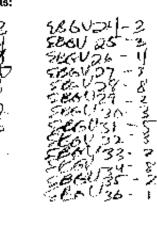
PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC — Collinsia concolor = CC — Cordylanthus rigidus = CR — Plantago patagonica = PP

_	· 			
14	Amsinckia monziosii	Rancher's Fiedleneck	 Osmadenia tenella 	Osmadenia
9	Antirrhimum coulterianum	Coulter's Snapdragon	o Paeonia cultornica	California Peon
a	Antirrhinum nuttalijanum	Nuttall's Snepdregon	 Peciocarya sp. 	Pectocarya
_ Ň/	Asclepius fascicularis	Narrow-leaf Milkweed	CV Phacelia sp.	Phacelia
	Boechera sp.	Rock Cress	 Photistoma membranacaum 	White Flesta F
n G	Calandrinia ciliata Calachartus concolor	Red Maids College bond Marinese Life	 Plaglobothrys sp. 	Popcomflower
0	Calystogia longipes	Golden-bowl Mariposa Lity	e Plantago patagonica	Desert Plantai
P. 4	Camissonie sp	Merning-glory Sun Cup	Platysterion californicus	Cream Cups
ſΧ̈́	Castillejā exerta	Paintbrush	c Pronus ilicifolia	Holly-leaf Cherr
9	Caulanthus helerophyllus	San Diego Jewelflower	 Ratinesquia neomexicano Ribes quercetorum! 	Desert Chicory Oak Gooseberr
- 0	Caulanthus simulans	Payson's Caulanthus	Rorripa nasturtivm-equaticum	Water-cress
٥	Ceanothus cuneatus	Buck Brush	n Rosa californica	California Rose
- ⊗<	Ceenothus greggii	Cup-feaf-litac	Saltugilie australis	Southern Gilia
o.	Ceanolhus leucodermis	Chaperral Whitethorn	Senecio cetifornicus	California Buffe
0	Chaenactis artemisifolia	White Pincushion	n Senecio flaccidus	Butterweed
0	Chaenactis glabriuscula	Yellow Pincushion	 Sidalcon melvaefkyra 	Checker-bloom
5	Clematis sp.	Clematis	Sisymbrium sp.	Tumble Mustai
0	Collinsia concolor	Southern Chinese Houses	Selidago californica	California Gold
0	Cordylanthus rigidus	Dark-lip Bird's Beak	Stachys ajugoides	Hedge-nettle
0	Coreopsis californica	California Coreopsis	: Stephanomeria sp	Wreathplant
n	Corethrogyne filaginifolia	Common Sand-aster	 Streptanthus campastris 	Southern Jewe
ο.	Cryptantha sp.	Cryptantha	 Ştylopline gnaphalioides 	Everlasting Ne
- 0	Cucurbita foetidissima	Calabazille	 Tetredynila comosa 	Collon-thorn
O	Descurainia sp.	Tansy-mustard	 Thysanocorpus sp. 	Fringepod
ດ	Dicentre chrysentha	Gelden Ear-drops	 Trichostemma perishii 	Mountain Blue
0	Dichelostemma capitatum	Blue Dicks	 Tropidocarpum gracile 	Slender Dobie-
O	Dadloya sp.	Dudleya	n Uropappus lindleyi	Silver Puffs
0	Emmenanthe pendulifera	Whispering Bells	 Viola purpurea 	Oak Yellow Vic
A.	Eriostrum sp.	Woolly-star		
Š	Ericamoria sp. Erigeran foliosus	Goldenbush Leafy Daisy	0 Dut - The	
0	Eriodictyon trichocalys	Hairy Yerba Santa	Other Flowering Plants:	
c	Erioganum fasciculetum	Inland California Buckwheat	The carrier (xx)	C 3.4440
(3	Eriogonum sp.	Buckwheat	- Cupinus-bicos	J0°Y2↓
0	Eriophyllum sp.	Golden-yarrow	- Carpino Concin	~ x/ = 2
	Erodium ciculərium*	Red-stem Storksbill	1	·
<u> </u>	Ervsismum capitetum	Western Wallflower	GENLOI- midden	CAPTNI
e.	Eschscholzia californica	California Poppy	" as so, here	7277
:>	Eucrypta chrysanthomitolia	Spotted Hideseed	9	413010%
a	Euthamia occidentalis	Western Goldegred	. Rare Witdlife or Rare Plants:	حرس رهاويد،
1:	Garrya veolchii	Canyon Silk Tassel	0	
D	Gilia sp.	Gilia	6 CBAUDI - 2	5B6VD
o.	Gnaphallum	Cudweed	0 28 AUNO 4	586U 2
۰	Guillenia lasiophylla	California Mustard	2 25003 - X	SHAVO
:>	Gulierrezia sarothrae	Broom Matchweed	0 4860 89 - 117	Sign of
\sim	Heliotropium curassavicum	Satt Heliotrope	· 4 (23-) 05 - 4	585V2
⋰	Hirshfeklia incena	Short-pod Mustard	0. 506V Ole 3	\$860g
رد	Lamium amplexicaule	Henbit	9 500001 D	5000
Şο.,	Lasthenia grecilis	Common Goldfleids	0 466V60 - 3	- 5260°3
_J) y <	Layia glandulose	White Layla		586V 3
\\P\	Lepidium sp.	Pepperweed		SEAT 1
AX.	Linanthus bellus	Desert Beauty	1 1 586911 - 5	S 6568 5
15	Linanthus dicholomus	Evening Snow	2(6V12 - 3	$ \leqslant$ BGQ \lesssim
o.	Lonicera subspicata	Johnston's Honeysuckle	- ユーニング(5V) キュース	- 460 A 1/2
B	Malacothrix californica	California Dandellon	. 。 乞奶 的第三 <i>5</i>	_
11	Malacothnx clevelandii	Clevelano's Malacothrix	- L - 2007 3	
0	Marah macrocarpus	Wild-cucumber	° 3654 6	
٥	Merrubium Vulgare*	Horehound	- L ° − 9£SNZ T €	
0	Matricaria matricarioldes*	Common Pineapple-weed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
13	Mentzelia veatchiana Morasteria gracilia	Veatch's Stick-leak	1 2 24/2/12 3	
0	Microsteria gracilis	Slender Phiox	~ 566000-1	
0	Mintulus sp. Nemophila menzeisii	Monkeyflower	1 506V21 > 2	0 0018
.:	Ombanda hubada	Small-flower Baby Blue Eyes	0 \ \(\sum_{0} \)	- ECLE

Chaparral Broom-rape

'nγ lower ain κгу iffy æ lerweed m ard idenrod velflower lest-straw ecuris e-pod fiolet



9CLE01-20

Recorder: Away to Cotte M. 2 Add'l Person: No	~ !	Date: 41811GPS Unit : 7
Project: Concentrix Solar Project Map #: 5 Survey Sx	- ^	SIME QCB Protocol Survey # 4 of 5
TMF [24-hour] Temp (F*): Wind (avg/max) %	cc	Sky
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\overline{}$	
1200 65 3/9 2 15	-	(clinar) (cline(y)) coveraget drizzla shower
L 130 <u>0 6.4. 6 13</u> 0 40)	elson (pekthy) evenses drovie shower
		
1400 60 19720 75	· -···	
	\rightarrow	s ear potany everpast druzile shower
and sunjey too windy tailo		tions patchy contests, chizzle shower
End		
Habitat On-site (circle): open soils (Milliops (ridgos) rock outcrops soil		tiay soils, old roads yvandus nectar sources
Nymphalidae (Brushfooted Butterilles)	Total	Hesperiidae (Skippers)
	<u>. </u>	
Euphydryas editha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspot)	!	Erynnis tristis (Sad Duskywing)
Thessalio feanira (Winght's Checkerspot)	l	Erynnis proportius (Propertius Duskywing)
Chlosyne californica (California Patch)		Erynnis brizo (Śleepy Duskeywing)
Chlosyne gabbli (Galob's Checkerspot)	Ι	Pyrgus albascons (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Γ.	Hesperia jubla (Jubia Skipper)
Junoma coenia (Common Buckeye)	t [.]	Polites sabuleti (Sandhill Sklpper)
Vanessa annaholla (West Coast Lady		Megathymidae (Glant Skippers)
Vanessa atalania (Red Admiral)		Megathymus yuccae (Yucca Giant Skipper)
		wedanihung Accas (Looks Giant Skilber)
Vanessa cardui (Painted Lady)		
Vanessa virginiensis (Virginia Lady)		Other Bulterflies:
Nymphalis californica (California Tortoiseshell)		Unid Carlphor Flyny 20 away 3
Danaidee (Mikweed Butterfiles)		chical Distributions Vi J 11
Denaus plexippus (Monarch)	L.	somy Dusky with the
Danaus gilippus (Queen)	Γ'	1 22.1
Satyridae (Satyrs)	<u> </u>	1 "
Coenonymphs californics (Common California Ringlet)		<u> </u>
Pieridae (Whites, Sulphurs)	· —	
Pieris rapse (Cabbage White)	-	····································
Pontia sisymbrii (Spring White)	··	
· · · · · · · · · · · · · · · · · · ·	·z	
	<u>-</u>	
Pontia protodice (Common White)	, 2	· · · · · · · · · · · · · · · · · · ·
Anthocharis sara (Sara Orangetip)	 .	
Anthocharis cethura (Felder's Orangetip)	l	
Euchloe hyantis (Desert Pearly Marble)		<u> </u>
Collas eurytheme (Orange Sulphur)	l	
Colias harfordii (Harford's Sulphur) \(\frac{1}{2}\)	[2 	
Nathelis icle (Dainty Sulphur)	[
Papilionidae (Swallowtails)	T—	Notes:
Papilio polyxones (Desert Black Swallowtail)		CORA, TUYU, WOSP, WES J, CARE,
Papilio eurymedon (Pale swallowtail)		Cotton tailed roldert
Papilio rutulus(Western Tiger Swallowtail)	-	
		They abbot (alwardy recorded at the attention)
Apodemia mormo (Behr's Metalmark) LICHT (RELICITION OF THE LICE CONTROL OF THE LICE CO	c1.	shell tiertely fizaired
Lycaenidae (Hairstreaks and Blues)	56	Co chooly sormed
	l ·—	
Celastrina ladon (Spring Azure)	L	action cottles aprizing
Leptoles marina (Marine Blue)	ļ _	
Broptikitum ex#c (Western Pygrny Blue)	↓.	
Glaucopsyche lygdamus (Southern Blue/Silvery blue)		
Hemiargus cemunus (Edward's Blue)		
Jeania acmon (Acmon Blue)	Γï	1
Philotes sonoronsis (Sonoran Blue)		· · · · · · · · · · · · · · · · · · ·
Callephrys augustrius (Brown Elfin)		<u> </u>
Callophrys perplexa (Perplexing Green Hairstreak)	2_	
Strymon melinus (Gray Hairstreak)	X-	· · · · · · · · · · · · · · · · · · ·
Adides holesus (Great Purple Hairstreak)	├	·
Amoes reasts (oreal Pulpe Hallstreak)		
	_ ا	<u> </u>

cential Neclaring or Host Plants for Quino Checkerspot Butterfly In Boulevard, California (Concentrix Solar) structions:

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

 $Antirrhinum coulterianum = AC \quad Collinsia concolor = CC \quad Cordylanthus \ rigidus = CR \quad Plantago \ patagonica = PP$

-		i - AC COMMISIA CONCORDY = C
7	Amsinckiu menziesii	Rancher's Fiddleneck
6	_	
٠.		Coulter's Snapdragon
٥		Nuttait's Snapdragon
0	A second a sancicularia	Narrow-leaf Millowcod
9		Rock Cross
بر 10		Red Maids
ر. سر	wallow letters on the fact	Golden-bowl Mariposa Lily
′;	2 O	Morning-glory
0	•	Sun Cup
,,		Paintbrush
7		San Diego Jawelflower
0	Ceanolhus cuneatus	Payson's Caulanthus
0	Ceanothus groggii	Buck Brush
0	Ceanothus leucodernis	Cup-feaf-lilac
r;	Chaenacus arlemisidolia	Chaparral Whitethorn
		White Pincushion
٥	Checnaciis glabriuscula Clematis sp.	Yollow Pincushlen
å	Collinsia concolor	Clematis
0	Cordylanthus rigidus	Southern Chinese Houses
Ö	Coreopsis catifornica	Dark-tip Bird's Beak
ě	Corethrogyne filaginifolia	California Coreopsia
بمنر		Common Sand-aster
<u></u>	Cucurbita foetidissima	Crypmantha
Ö	Descuralnia sp.	Celabazilla
	Dicontra chrysantha	Tansy-mustard
.,	Dichelostemma capitatum	Golden Ear-drops
9	Dudloya sp.	Blue Dicks
Ü	Emmenanthe pendulifera	Dudleya
v	Eriestrum sp.	Whispering Bells
r	Encameria sp.	Woolly-star
ö	Engeron foliasus	Goddenbush
0	Eriodictyon trichocalyx	Leafy Daisy
	Eriogonum fasciculatum	Hairy Yerba Santa
Ġ	Eriogonum sp.	Inland California Buckwheat Buckwheat
F.	Etiophyllum sp.	
(J	Erodium alcuterium	Golden-yarrow Red-stem Storksbitt
٥	Erysismum capitatum	Western Wallflower
6	Eschscholzlu californica	California Poppy
o	Eucrypta chrysanthamitolia	Spotted Hideseed
11	Euthamia occidentalis	Western Goldenrod
5	Garrya vealchii	Canyon Silk Tassel
1	Gilia sp	Gilla
0	Gnaphalium	Cudweed
0	Guillenia laskophytia	California Mustard
r	Gutiorrezia sarothrae	Broom Matchweed
•	Heliotropium curassavicum	Sall Helictrope
ı,	Hirshfeldia incana	Short-pod Mustard
0	Lamium amplexicoide	Henbit
•	Lasthenia gracilis	Common Goldfields
1	Layia glandulosa	White Laye
9	Lepidium sp.	Pepperweed
э.	Linanthus ballus	Dosert Beauty
1	Linanthus dicholonius	Evening Snow
3	Lonicera subspicata	Johnston's Honeysuckie
	Melecothrix californica	California Dandelion
,	Melacothrix clevelandii	Cleveland's Malacothrix
,	Marah macrocarpus	Wild-cucumber
,	Matrubium vulgere*	Horehound
:	Matricaria matricarioldes*	Common Pineapple-weed
٠	Mentzelia veatchiana	Veatch's Stick-leak
,	Microsteris gracilis	Slender Phlox
•	Mimulus sp.	Mankeyflower
	Atomorbita	

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Namophila menzelsii

Orobanche bulbasa

a	Osmadenia tenella	Osmadenia
Ą:	Paeonia californica	California Peony
0	Poctocarya sp	Pectocarya
О	Phacolia sp.	Phacelia
0	Pholistoma membranaceum	White Fiesla Flower
r	Plagiobothrys sp.	Popcornflower
ā	Plantago patagonica	Desert Plantain
ý	Platystemon californicus	Cream Cups
0	Prurus ilicifolia	Holly-leaf Cherry
c	Ralinesquiu neomexicana	Desert Chicory
0	Ribes quercetorum	Oak Gooseberry
0	Rorripa nasturtium-aquaticum	Water-cress
0	Rosa californica	Californ;a Rose
ο	Saftugilie australis	Southern Gilia
Ľ	Senecio californicus	California Butterweed
0	Senecio Recodus	Butterweed
0	Sklatces malveettora	Checker-bloom
0	Sisymbrium sp.	Tumble Mustard
С	Solid ago c alifornica	California Goldenrod
0	Stachys ajugoides	Hedgo-nettle
n	Stophanomeria sp.	Wreathplant
0	Streptenthus campestris	Southern Jewelflower
С	Stylocline gnaphalioides	Everlasting Nest-straw
e.	Tetradymia comosa	Cotton-thorn
÷	Thysanocarpus sp.	Fringepod
4	Trichoslemma parishii	Mountain Bluecuris
0	Tropidocarpum gracile	S'ender Oobie-pod
0	Uropeppus lindleyi	Silver Puffs
٥	Viole purpurea	Oak Yellow Violet
C		
9		

Other Flowering Plants:

o

ø

Rare Wildlife or Rare Plants:

Recorder: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	Date: 19 APRÎL, ZCII GPS Unit : C	D
Project: Concentrix Solar Project Map #: 4 Survey S	Sxn:	QCB Protocol Survey# 4/ of	<u>5</u>
	% <u>cc</u>	Sky	_]
Sent 1030 HIES GUEF 5-MANY	سبحد	clear paidby oversign proze shower	
	.e		$\overline{}$
	- +		
	<u>e</u>	Cust paethy (verces) dozze shower	[
	్	Const. narchy overcost druzte shower	
1500 H25 73 2-38 2	<i>}</i> -	close patchy overtest dhade shower	
End	· — [·	-	
Habitat On-site (circle): (cen soils hilliops) ridges, rock outcrops)s	nil eruete e		
Transfer Cristic (Cristic), open solid minops: mades, rock onto opgys	on crusts, c	iay solis, did ruang various nectar sources)	Total
Nymphalidae (Brushfooted Butterflies)	7.	Hesporiidae (Skippers)	TOTAL
Euphydryas editha (Quino Checkerspot)	-	Erynnis funoralis (Funereal Duskywing)	
Euphydryas chalcedona (Henne's Checkerspot)	+	Erynnis tristis (Sad Duskywing)	-, ∵
Thessalia leanira (Wright's Checkerspot)	+	Erynnis propertius (Propertius Duskywing)	
Chlosyne celifornica (California Patch)	+	Erynnis brizo (Sleepy Duskeywing)	•3
Chlosyne gabbii (Gabb's Checkerspot)	+	Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitta (Mylitta Crescent)	- ·	Hesperia jubia (Jubia Skipper)	_3-
Junonia coenia (Common Buckeye)	<u> </u>	Polites sabuteti (Sandhill Skipper)	
Vanossa annabolia (West Coast Lady	 	Megethymidae (Glant Skippers)	
Vanessa atalanta (Red Admiral)	 	Magathymus yuccae (Yucca Giant Skipper)	
Vanessa carder (Painted Lady)	+	magnifymae Moone (14009 citate embber)	
Vanessa virginiensis (Virginia Lady)		Other Butlerflies:	—
Nymphalis californica (California Tortoiseshell)	-	COMMON SUCTIONING (PHINISCIA CATURUS	12.
Danaldae (Milkweed Butterflies)		COMMON BOOKONING (LANGISC W. CHIOLOS	ս ∾.
Darraus plexippus (Monarch)	-	· · · · · · · · · · · · · · · · · · ·	
Danaus gilippus (Queen)	$+\cdot -$		
Setyridae (Satyrs)	-		
Coenonympha californica (Common California Ringlet)		-	
Pieridae (Whites, Sulphurs)	 	·	
Pieris rapae (Cabbage White)	-	· · · · · · · · · · · · · · · · · · ·	
Pontie sisymbrii (Spring White)	-		
Pontra beckeni (Beker's White)	1		
Pontra protodice (Common White)	 		
Anthocheris sare (Sare Orangetip)	† u –		
Anthocharis cethura (Felder's Orangetip)	+	·	
Euchice hyantis (Desert Pearly Marble)	 	<u>*</u> *···	
Colles eurytheme (Orange Sulphur)	<u> </u>	i·	
Calles herfordii (Harford's Sulphur)	· 	··	
Nathalis jole (Dainty Sulphur)	T —		1
Papillonidae (Swallowtails)	::	Notes:	
Papilio polyxenes (Desert Black Swallowtail)	T "-		
Papilio curymedon (Pale swallowiail)	T		
Papilio rutulus(Western Tiger Swallowtail)			
Riodiniade (Metalmarks)		· · · · · · · · · · · · · · · · · ·	
Apodemia niomio (Behr's Metelmerk)	F08		
Lycaenidae (Hairstreaks and Blues)		<u> </u>	
Celastrine ladon (Spring Azure)			
Loplotes marina (Marine Blue)			
Brephidium exile (Western Pygrny Blue)			· j
Glaucopsyche lygdamus (Southern Blue/Silvery blue)			`
Hemiargus ceraunus (Edward's Blue)			
(Carie somon (Acmon Blue)	1.1		
Philotes sonorensis (Sonoran Blue)			
Callophrys augustimus (Brown Elfin)	፲ጼ_		
Callophrys perplexa (Perplexing Green Hairstreak)			
Strymon melinus (Gray Hairstreak)			
Atlides halesus (Great Purple Hairstreak)	l		
		· · · · · · · · · · · · · · · · · · ·	

Instructions!

Crobanche bulbose

Chaparral Broom-rape

Please Place a Check Mark Seside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

_	Antirrhinum coultenanum	= AC Collinsia concolor = CC	Cordylanthus rigidus = CR Plantago patagonica = PP
_			
٥	Amsinckia menziesii	(Rancher's Fiddleneck)	o Osmađenia tenetta Osmađenia
0	Antirrhimum coutterlanum	Coulter's Snapdragon	Paegnia californica California Peony
٥	Antimhinum nuttellianum	Nuttall's Snapdragon	 Pectocarya sp. Pectocarya
17	Asclepias fascicularis	Narrow-leaf Milkweed	o Phacelio sp. Phacelia
Ľ	Воеслега ер,	Rock Cress	 Pholistoma membranaceum White Fiesta Flower
٠, ٥	Calandrinia ciliata	Red Maids	 Plagiobothrys sp. Popcomflower
. 0	Calochortus concolor	. Golden-bow Mariposa Lily	 Plantago patagonica Desert Plantain
U	Calystegra longipas	Marning-glory	o Platystemon californicus Cream Cups
0	Camissonia sp.	Sun Cop	 Prunus ilicitofia Holly-leaf Cherry
12	Castilleja exerta	Paintbrush	Refinesquiu noornexicene Desert Chicory
0	Cuulanthus heterophyllus	San Diego Jewelflower	Alibes querceforum
υ	Caulanthus simulans	Payson's Caulanthus	o Rompa nasturtium-aquaticum Water-cress
0	Coanothus coneatus	Buck Brush	o Rosa californica California Rose
Ω	Ceanothus greggii	Cup-leaf-lilac	Salfugilia australis Southern Gilia
a	Ceanothus leucodermis	Chaparral Whitethorn	 Senecio californicus — Celifornia Butterweed
41	Chaenaclis arlemisiifolie	White Pinceshion	 Senecio flaccidus . Bullerweed .
o	Chacnactis glabriuscula	Yellow Pincushion	 Sidalcea matvaellora Checker-bloom
O	Clematis sp.	Clematis	 Sisymbrium sp. Tumble Mustard
a	Collinsia concolor	Southern Chinese Houses	Solidago californica California Goldenrod
0	Cordylanthus rigidus	Dark-tip Bird's Boak	Stacky's ajugoides Hedge-netile
0	Coreopsis californica	California Coreoosis	Stophenomerin sp Wrealhplant
0	Corethropyne filaginifolia	Common Sand-aster	n Sireptanihus campesiris Southern Jewalliower
. 6	Cryptanthe sp	(Cryplantha)	Styloclino graphalioides
	Cucurbita foetidissima	Calabazilla	o Tetradymia comosa Cotton-thorn
0	Descurainia sp.	Tansy-mustard	○ Thysanocarpus sp. Fringepod
v	Dicontra chrysantha	Golden Ear-drops	Trichostemme perishii Mountain Bluecuris
ຄ	Dichelostemma capitalum	Blue Dicks	· ·
o	Dudleya sp.	Dudleya	
. 0	Emmenanthe pendulitara	Whispering Bells	r. Uropappus lindleyi Silver Putta
٥	Eriastrum sp.	Woolly-star	 Viola purpurea — Qak Yellow Violet
0	Ericameria sp.	Goldenbush	
ő	Erigeron foliosus	Leaty Daisy	0
٠,	Eriodictyon trichocalyx	Hairy Yerba Santa	o Other Flowering Plants:
٥	Eriogonum fasciculatum	Inland California Buckwheat	
٠,	Eriogonum sp.	Buckwheat	
6			·
0	Eriophyttum sp. Erodium cicularium*	Golden-yarrow Red-stem Storksbill	0 .
		·	II.
0	Erysishtum capitalum	Western Wallflower	D .
0	Eschscholzia californica	Catifornia Poppy	e
c.	Eucrypta chrysanthemilolia	Spotted Hideseed	c · · · · · · · · · · · · · · · · · · ·
O	Euthamia occidentalis	Western Goldenrod	Rare Wildlife or Rare Plants:
г	Garrya vealchii	Canyon Silk Tassel	MCHIOI HORNED LIZARD
ь	Gilia sp.	Gilia .	SUBARANA COLLAR MACK TALLED TACKRABA
С	Gnaphalium	Cudweed	6 MC5302" N
0	Guillenia fasicphylle	California Mustard	° McB363
f:	Gutierrezia sarothrae	Broom Matchweed	0 MC8204
п	Heliotropium curassevicum	Salt Heliotrope	" mc8305 "
. "	Hirshfeldie incana	Short-pod Mustard	" MCBTOW "II.
٥	Lamlum amplexicaule	Henbit	o massay v
٠.	4 asthonia gracilis	Common Goldfields	
п	(Leyie glandulosa)	White Layla	
Ľ	Lepidium sp.	Pepperweed	
n	Linanthus bellus	Desert Beauty	
o	Linanthus dichotomus	Evening Snow	La Company of the Com
	Lonicera subspicate	Johnston's Honeysuckie	
	Malecolfrix californica	California Dandelion	
ü	Melecothrix clevelandri	Cleveland's Malacothrix	
o	Мегай піасгосегриз	Wild-cucumber	
. 0	Marrobium vulgare*	Horehound	5
o.	Matricaria matricarioides*	Common Pineapple-weed	p
٠.	Mentzelia veatchiana	Vesich's Sick-leak	
ē,	Microsteris gracilis	Siender Phiox	0
cı	Mimulus sp.	Monkeyflower	
0	Nemophila menzeisii	Small-flower Baby Blue Eyes	6
		anner name ment with Fitte	1 5

Recorder: Margic	Mulliga Add Pers	son:	Date	<u>: 4.19.11</u>	G	PS	Trail.
Project: Concentrix So	olar Project Map #: 4	Survey Sxn:	QCB Prot	açal Survey #	4.	of	
TIME (24-hour)	Tomp (F1): 1Vind (augus)	94 CC		Sky			_
Start 0 30	- Tomp (F'): Vind (avpin	(II)	GP.X	potchy overcasi	SH42 8	shower	_
(230	73 6-81		Clear	pelichy <u>overcue</u>	geze	ahower	
14.75	··· /						
	├ <i>─</i> ─ ं		dipar.	autchyovercast	<u>कृत्रतंत्र</u>	SIYWEZ	
	├- 	······i +		pately overcasi	(\$12Z.C	shower	
	├ · 	· · · · · · · · · · · · · · · · · · ·		polichy <u>evernasi</u>	077Z-0	shower	
				<u>pat</u> di <u>y (worcas)</u>	<u> Giszle</u>	shower	
End			ومعاصب	ga <u>ichy o</u> vercosi	airezio	shower	
Habital On-site (circle); oper	n some Militope, ridges rock	outcrops, goll crusis,	tlav spilst old roads	arious nectar source			
		— Total					Total
Nymphalidae (Brushfooto			Hesperlidae (Ski)			· .	
Euphydryas edilha (Quino			,	(Funereal Duskywir	ıg)		
Euphydryas chalcedona ()			Erynnis tristis (\$				
Thessalia leanira (Wright's				rs (Propertius Dusky	wing)		שוו
Chlosyne californica (Calif				eepy Duskcywing)			
Chlosyne gabbii (Gabb's C				rs (Checkered Skipp	91)		-
Phyclodes mylitle (Mylitta			Hesperia jubia (.] \
Junonia coonia (Common		// (ž		(Sandhill Skipper)			
Vanossa annabella (Wes)	-	~~	Megathymidae (C				
Venesso alalanta (Red Ad			Megathymus you	ccee (Yucca Giant S	kipper)		
Venessa cardui (Painted							
Vanessa virginiensis (Virg Nymphalis californica (Ca			Other Butterfiles:				_`.
Danaldae (Mithweed Butte			 				
Danaus plexippus (Monari							
Danaus gilippus (Queen)					—· .——		-
Satyridae (Satyrs)	··		- j				-i
	(Common California Ringlet)	,	<u> </u>				
Pleridae (Whites, Sulphurs		·			· ·—		i
Pieris rapae (Cabbage Wi			 	··- · · · 			 · ·
Pontia sisymbni (Spring W	/hite)		<u> </u>				· ·
Pontia beckerii (Beker's W			† <u> </u>				
Pontia protodice (Commo)	100				
Anthocharis sara (Sara Or	rangetip)	<u>_</u>	1 3				
Anthocharis celhura (Felde							
Euchloe hyantis (Desert P		<u>H</u>					
Colles eurytheme (Orange		iw	(I)				<u> </u>
Colins harfordii (Harford's		' '					
Nathalis iole (Dainty Sulph			ļ				
Papilionidae (Swallowtalls	·		Notes:			•	
Papilio polyxenes (Desert Papilio eurymadon (Pale s			 				
Papiko rutulus(Westem Ti							
Riodiniade (Metalmarks)	ger swallowian)		····· 				a=
Apodemie mormo (Behr's	Metalmark)	44.9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 (10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	V 100		
Lycsenidas (Hairstreaks a		—— ∵ 1681	H MH HE H	<u></u>	} — ··-		_
Celastrina ladon (Spring A		<u> </u>		· · · · · · · · · · · · · · · · · · ·			-
Leptotes marina (Marine B			·				-:
Brephidium exild (Western			· 				-
	Southern Blue/Silvery blue)		1				+
Heimaigus ceraunus (Edw			 	<u> </u>			 -
Icaria acmon (Acmon Blue			1··				:
Philoles sonoronsis (Sono	oran Blue)		† ———				
Callophrys augustinus (Br			 			·	-
Collophrys perplexe (Perp	llaxing Green Hairstreak)		<u> </u>				— I — — —
Strymon molinus (Gray Ha			<u> </u>				
Allides halesus (Great Pur	ple Hairstreak)						— · ··· ·—
		···· •	. –		. — -		

ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

	1000/10/10/10	- 10 COMMISSIO CONTENSION - CA
32	Amsinckia menzicsii	Rancher's Fiddleneck
o	Antirmimum coulterianum	Coultor's Snapdragon
0	Antimhinum nuttallianum	Nuttali's Snapdragon
0	Asclepias fasciculeris	Narrow-leaf Milkweed
У.	Boechera sp.	Rock Cress
0	Calandrinia ciliata	Red Maids
a	Calochorius concolor	Golden-bowl Mariposa J.ily
٠.	Calystogia longipes	Morning-glory
2	Actividade indicate	Sun Cup
	Castilioja exerta	Paintbrush
U	Caulanthus heterophyllus	San Diego Jewelflower
ــــــــــــــــــــــــــــــــــــــ	Caulenthus simulans	Payson's Caulanthus
ঙ	Cognothus cuneetus	Buck Brush
×	Ceanothus greggii	Cup-leaf-lilac
0	Ceanothus leucodermis	Chaparral Whitethorn
٥	Chaenactis artemisiifolia	White Pincushion
c	Chnenactis glabriuscula Clematis sp	Yellow Pincushion
o.	Collinsia concolor	Clematis Southern Chinese Houses
٠,	Cordylanthus rigidus	Dark-tip Bird's Beak
×	Coreopsis californica	California Coreopsis
- -	Corethrogyne filaginifolie	Common Sand-aster
×	Cryptanthe sp.	Cryplantha
	Cucurbita footidissima	Calabazilla
×	Descurainia sp.	Tansy-mustard
ō	Dicentra chrysenthe	Golden Ear-drops
n	Dichelostenime capitatum	Blue Olcks
0	Dudleye sp.	Dudjeya
Ci.	Emmenantho pendulifera	Whispering Balls
ο.	Eriastrum sp	Woolly-star
e.	Ericamoria sp.	Goldenbush
0	Erigeron foliosus	Loafy Deisy
Q.	Eriodictyon trichocalyx	Hairy Yerba Santa
Li	Eriogonum fesciculatum	Infand California Buckwheat
°/	Eriogonum sp.	Buckwheat
ж,	Enophyllum sp. W4 (TC 0)	Golden-yarrow
×	Erodium cicularium	Red-stem Storksbill
٥.	Erysismum capitatum	Western Wallflower
9	Eschscholzia californica	California Poppy
0	Eucrypte chrysenthemiloka Euthenile occidentalis	Spotted Hideseed
×	Gerrya ventehil	Western Goldenrod
٠,	Gilla sp.	Canyon Silk Tasse! Gilia
Ü	Gnaphaliam	Cudweed
o	Guillenia lasiophylla	California Mustard
Ġ.	Gutierrezia sarottirae	Broom Malchweed
п	Heliotropium curassavicum	Salt Helictrope
×	Hirshfeldia incane	Short-pod Mustard
$^{\circ}$	Lamium omplexicaule	Henbit
×	Lasthenio gracitis	Common Goldfields
	Layia glandulosa	White Layia
0	Lepidium sp.	Pepperweed
×	Linanthus bellus	Desert Beauty
0	Linanthus (dichotomus	Evening Snow
o	Lonicera subspicata	Johnston's Honeysuckie
٥	Malecolhrix californica	California Dandelion
o	Melacothrix clevetandii	Cleveland's Malacothrix
0	Marah macrocarpus	W.id-cucumber
0	Marrubium vulgare"	Horehound
U	Matricaria matricarioides"	Common Pineapple-weed
0	Mentzolia vostchiena	Vealch's Shok-leak
o	Microsteris gracilis	Slender Philipx
65	Manufactor	films constitution .

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Menulus sp.

Nenxophlia menzeisii

Ombanche bulbosa

0	Osmadenia tenello	Osmadenia
ę.	Paeonia culifornica	California Peony
Š	Pectocarya sp.	Pectocarya
₹	Phacalia sp. 人、イヤイ	Phacelra
0	Pholistoma membranaceum	White Flesta Flower
=	Plagiobothrys sp.	 Popcomhower
c	Plantago patagonica	Desert Plantail
0	Platystemon californicus	Bream Cops
o.	Prunus ilicifolia	Holly-lear Cherry
0	Rafinesquie neomexicane	Desert Chicary
œ.,	Ribes querculorum	Oak Gooseberry
υ	Romps nasturlium-equationm	Water-cress
0	Rosa californica	California Rose
13	Saltugilia australis	Southern Gijia
	Senacio californicus	California Butterweed
Q.	Seriecio ffaccidus	Bulterweed
0	Sidalcea malvaeffora	Checker-bloom
ο.	Sisymbilum sp.	Tumble Musterd
Ö	Solidago californica	California Goldenrod
ი.	Stachys njugoidas	Hedge-nettle
0	Stephenomeria sp.	Wreathplant
0	Streptenthus campestris	Southern Jawelflower
<	Stylocline gnaphalioides	Everlasting Nest-straw
0	Terradymia comosa	Cotton-thorn
a.	Thysanocamus sp.	Fringepod
	Trichoslamma parishii	Mountain Bluecuris
م مند	Tropidocarpum gracile	Siender Dabie-pcd
<	Uropappus lindleyi	Silver Puffs
)	Viola purpurea 🥫	Cak Yellow Violet
n 5		•
,	Other Flowering Plants:	
		1
0	Anisceulis ac	70 de
2	Madis des 112 de	C. G. C.
,	alyphidium	w.
, ,,	of all the	
,	Leptosiphon to	man in
5	1. 1 - 1.	-
;		· :
;	Rare Wildlife or Rare Plants:	
5		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
>	Ashmanluc doug	lasi pershich.

Rare Wildlife or Rare Plants:

Ashagalus douglas i parshichs

MMADOI - 09

Black Jackrabbit

MMBJOI

(ordylantuus rigidus

MMCROI - 1 plant

MMCROI - 1 plant

MMLBOI - 08

Woodrat Nest

MMWROI-02

Recorder: Margie MI	/∭g≪n Add'i Person: _		Date:	
Project: Concentrix Solar Project Map #: 5 Survey Sxn:			GCB Protocol Survey # 4 of	<u>5</u>
	p [F1]: Wind (avg/max)	w.cc	·	
Start		L	clear polichy oversati enzan shower	
13 45 6	5-11 (B)	_=_	potchy present dizzle grower	
	7-6	— 3 — †	glear product overcast shower abover	
16 OO	<u> </u>	<u> </u>	close Enjoys average provide spower	
├ <i>─</i> ─	_ · · {··	- ·— -— ·		
l _ ·	—	+		— I
L \		· —- 🕂	dust hepty contrast duste spane.	
End	i	l	neir patchy overcast drizzle shower	
Habitat On site (circle), open soils,	hilltops, ridges, rock outero	os, soil crusts,	clay soils, old roads, various nectar sources	Total
l 		,, , , <u>, Total</u>		T 1000
Nymphalidae (Brushfooted Buth	orillos) : :		Hesperildae (Skippers) Eryonis funeralis (Funeral Duskywing)	+
Euphydry as editha (Quino Check	kerspot)		Erynnis fristis (Sad Duskywing)	-
Euphydryns chalcedona (Henno	s Uneckerspot)		Erynnis propertius (Propertius Duskywing)	<u> </u>
Thessalia leanira (Wright's Chec			Erynnis brizo (Sleepy Duskeywing)	
Chlosyne californica (California I	- 01.21) 	_ +	Pyrgus sibescans (Checkered Skipper)	
Chlosyno gabbii (Gabb's Checke Phyciodes mylitta (Mylitta Cresc		-+-	Hesperia jubia (Jubia Skipper)	
Junosiia coenia (Common Bucke	<u></u>		Polites sabuleti (Sandhill Skipper)	
Vanessa annabella (West Coasi		—· <u>۱⁴.</u> #—-	Megathymidae (Glant Skippers)	Ţ <u></u> _
Vanesse atelanta (Red Admirel)			Megethymus yuccae (Yucca Giant Skipper)	.
Vanessa cardui (Painted Lady)	·		<u> </u>	
Vanessa virginionsis (Virginia La	ady)		Other Butterilies:	1
Nymphalis californica (Californic				-
Danaldes (Milkweed Butterflics)			<u> </u>	
Danaus plexippus (Monarch)				
Danaus gilippus (Queen)				·ㅓ : }
Satyridae (Satyrs)		-—	-	+
Совполутріва californica (Com	mon Catrornia Kingkiti	·	- ··	
Pleridae (Whites, Sulphurs)		— -	+	_; — ¬
Pieris rapae (Cabbage White) Pontie sisymbrii (Spring White)		— †		
Pontia beckeril (Beker's White)				
Pontia protodice (Common White		· 		<u> </u>
Anthocharis sara (Sara Orange		. — —		
Anthocharis celliura (Felder's C	rangetip)		T	
Euchloe hyantis (Desert Pearly	Marble)	_ :	<u> </u>	-
Colins eurytheme (Orange Sulp	oftur)			→
Colles harfordli (Harford's Sulpl	nur)			-1
Nathelis iole (Dainty Sulphur)				⊣ · ·— Ì
Papilionidae (Swallowtalls)	-: ·]	Notes:	<u> </u>
Papilio polyxenes (Desert Blad			.+	i
Papilio eurymedon (Pale swalls				
Papillo rululus(Western Tiger	SWSIIOW(811)		 	
Riodiniade (Metalmarks)	olonoski)		HA THE THE THE THE	_!
Apodemia mormo (Behr's Meta Lycaenidae (Hairstreaks and B		∣տահ	***************************************	_!
Celastrina ladon (Spring Azure		- +	_[_ :
Leptotos marina (Marine Blue)	<u>-</u>	—· — — —		
Brephidium exile (Western Pys	my Blue)			<u> </u>
Gleucopsyche lygdamus (Soul	hem Blue/Silvery blue)			
Hemiargus ceraunus (Edward)	s Blue)	_ I _		
Icaria acmon (Acmon Blue)			,\	
Philotes sonorensis (Sonoran	Blue)			
Cellophrys augustinus (Brown	Elf-n)			<u>—</u> i — -
Callophrys perplexa (Perplexir	ig Green Hairstreak)			
Strymon melinus (Gray Hairsti	reak)			
Attides halesus (Great Purple	Hanstreak)		+	-

ostructions:

Please Place a Check Mark Seside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Reocher's Fiddleneck

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

Amsinckia menzlesili Antimhimum coulterianum Antimhinum nuttallianum Asglepias fascicularis Boechera sp. Calandrinia cilinta Calochorius concolor Calystenia longines. Camissonia ap. Castilleja excita Cautantius hate)oppyllus Caulanthus simuldina Ceanothus cuneatus Ceanothus greggin Ceanothus leucodermis Chaenactis artemisiilolie Chaenactis glabriuscula .. Clemalis sa. Collinsia concolor Cordylanthus rigidus Coreopsis californica, Corethrogyne filaginifolia Cryptanina sp. Cucurbita footidissima Descurainià sp. Dicentra chrysantha Dichelostemma capitatum Dudleye sp. Emmonantho pendulifora Eriastrum sp. Ericameria sp. Ericeron foliosus Eriodictyon trichocolyx Eriogonum fescigulalium Eriogonum ep. Eriophyllum sp. walk (Frodium cicuterium* Erysismum capitalum Esclischolzia californica Eucrypta chrysanthemifolia Euthamia occidentalis Genya veatchii Gilia sp. Gnachalium Guillenia lasiophylla Gulierrozia sarozhraa Heliotropium curassavicum

Hirshfeldia incana

Lasthenia gracilis

Layie glandulose

Linanthus bettus

Lopidium sp.

Lamium amplexicaule

Linanthus dichotomus

Mulacothrix culifornica

Malacothrix glavetandli

Matricaria matricariordes*

Lonicera subapicata

Marah macrocarpus

Marrubium vulgare*

Mentzelia vealchisna

Nemophila menzeisit

Orobanche bulbosa

Microsteris gracilis

Mimulus sp.

Coulter's Snapdragon Nuttail's Snapdragon Narrow-jeaf Milkweed Rock Cress Red Maids Golden-bowl Mariposa Lily Morning-glory Sun Cup Paintbrush San Diego Jewelflower Payson's Caulenthus Buck Brush Cup-leaf-litac Cheparral Whitethorn White Pincustrion Yellow Pincushion Clematis Southern Chinese Houses Dark-tip Bird's Beak California Coreopsis Common Sand-aster Cryptantha Calabazilla Tansy-musterd Golden Ear-drops Blue Dicks Dudleya Whisporing Bells Woolly-star Goldenbush Leafy Daisy Hairy Yerba Senta Inland California Buckwheat Buckwheat Golden-yarrow Red-stem Storksbill Western Waliflower California Popny Spotted Hideseed Western Goldenrod Canyon Silk Tasset Gilja Curdweed California Musterd Broom Matchwead Salt Heliotrope Short-pad Mustard Henbit Common Golafields White Layia Popporweed Desert Beauty Evening Snow Johnston's Honeysuckle California Dandelion Cieveland's Malacothrix Wild-cucumber Horehound Common Pineappte-weed Veatch's Stick-leak Slender Phlox

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Osmadonia tenelia Pasonia californica Pediacerya sp Phacelia sp. Pholisioma membranaceum Plagiobothrys sp. Plantago patagonica Pletyelemon californicus Prunus ilicifolia Rafinesquie neomexicana Ribes quercetorum Rorripa nasturlium-squalicum Rosa californica Saltugilia australis Sunecia californicus Senecio flaccidus Sidalces matvaettora Sisymbrium sp. Sclidago californica Stachys ojugoides Stephanomeria sp. Streptanthus campastris Stylocline gnaphelioides Tetradymia comosa Thysanocarous sp. Tnchostemma parishii Tropidocarpum gracile Uropeppus IIndleyi Viota ригригеа Other Flowering Plants:

Osmadenia California Peony Pedlocerya Phacelia Vitile Fiesta Flower Poncornflower Desert Plantain Cream Cups Holly-lest Cherry Desert Chicary Oak Gooseberry Water-cress California Rose Southern Gülai California Bulterweed Butterweed Checker-bloom Tumble Mustard Çalifornia Goldenrod Hedge-nettle Wreathplant Southern Jewelflower Everlasting Nest-straw Collon-Iham Fringepod Mountain Bluecuris Slender Dobie pod Silver Puffs Oak Yellow Violet

Rare Wildlife or Rare Plants:
Astrongalus du vylesi pos
MMAD100-104
Delphinium pamishi subglubisum
MMDP100-103
Gerea viscida

Gerea viscida MMGV100 Linantus bellus MMCBONADO

Recorder: Clup MA	n Rink	<mark>*Add'i Perso</mark> n:			
Project: Concentrix Se	l <u>ar Projec</u> t I	Map #:Su	rvey Sxn:	CLQCB Protocol Survey#of5	_
TIME (24-hour)	<u>Tomp (</u> F1):	Wind (evg/max)	A. CC		
_Start	,	ļ <u> </u>		cear passing overtast disade shower	- I
<u> 101</u> 5 [63	7/35	050		· 1
	65	12/6.0	# <u>.5</u>	Casor Codicity Uvercast Crizzin slavey	. [
13.00	67	10.51.6.5	1 0		Ⅎ
1545	62	158/5.0			- 1
		-,,-	† ·· ····		•
			† †	Clear cultity overcoal cnvzle shown/	i
Habitat On-site (circle): oper	1 soils, hilltops;	Vidges, reck outer		clay soils, old roads, various nectar sources	<u> </u>
Nymphalidae (Brushfootec	1 Bulledlies)		Total	Hesperiidae (Skippers)	tel e
Euphydryas edilha (Quino	Checkerspoti		-	Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcadona (F	lenne's Check	erspot)	· + -	Erynnis trislis (Sad Duskywing)	
Thessalia leanira (Wright's	Checkerspot)		- · ·	Erynnis propertius (Propertius Duskywing)	
Chlosyne californica (Califo	ornia Patch)			Erynnis bnzo (Sieepy Duskeywing)	
Chlosyne gabbii (Gabb's C	heckerspot)		_	Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitta (Mylitta (·		Hesperin jubla (Jubia Skipper)	<u>i</u>
Junonia coenia (Common I		<u> </u>	Ţø.	Politos sabuleti (Sandhill Sxipper)	·
Vanossa annabella (West				Megathymidae (Giant Skippers)	٠
Venessa atalanta (Red Adi				Megathymus yuccae (Yucca Glant Skipper)	— I
Vanessa cardui (Painted L Vanessa virginiensis (Virgi			- 🕌		_
Nymphalis californica (Cal	nia Lacy) Maraia Tartaian		_	Other Bulterflies:	· _]
Danaidae (Milkweed Butter		<u>=====================================</u>		 	\dashv
Danaus plexippus (Monarc		<u> </u>	<u> </u>	 	Ļ
Danaus gilippus (Queen)			— i —-	·	_ !
Satyridae (Satyrs)		· — · · —	— ł —	· — — — — — —	.
Coenonympha californica (Common Catif	formia Ringlet)		: ·— · · · — - — — — — — — — — —	
Pieridae (Whites, Sulphurs) —			 	
Pieris rapac (Cabbage Whi			-	<u> </u>	\dashv
Pontia sisymbrii (Spring Wi	hite)			 	\dashv
Pontia beckerii (Beker's Wi					- 1
Pontiu protedice (Common			_		- :
Anthocharis sera (Sera Ora			\rightarrow		- [
Anthocharis cethura (Felde Euchloe hyantis (Desert Pe				<u> </u>	_:
Colles eurytheme (Orange			· _ · _	<u> </u>	1
Collas harfordii (Harford'a Ş			- +	 	_:
Nathalis ide (Danty Sulphy			— —		
Papilionidae (Swallowtalis)			+	Notes:	\dashv
Popilio polyxenes (Desert E		:ail)	· -	So adol Por	4
Papilio aurymedon (Pale sv		<u> </u>		20-ad 03 24 -	- {
Papilio rutulus(Western Tig	or Swallowtail	<u> </u>		SP ado 3 los 1	٠
Riodiniade (Metalmarks)			ح. تالت. <u>-</u>	Cp ador Sevi 4	1
Apodomia mormo (Behr's N	//etalmark) ^{वर} ्	11 - 112 114 - 118	<u> </u>		一 !
Lycaenidae (Hairstreaks an		<u> </u>			(
Cetastrina ladon (Spring Az			_		
Leptotes marina (Marine Bli Brephidium exilo (Western I					
Glaucopsyche lygdumus (S	r ygmy blue) lauthern Bluari	Silveni bluc)	_	│	
Hemiargus ceraunus (Edwa		ouncin pind)	<u> </u>	 	
Icaria acmon (Acmon Blue)			— ——	··· 	Ϊ.
Philotes sonarensis (Sonare				 	-
Callophrys augustinus (Brow			· · ·	 	∤
Callophrys perplexa (Perple	xing Green Ha	eirstreak)	-		- {
Strymon melinus (Gray Hai:	streak)	:	_ !	j — — — — — — — — — — — — — — — — — — —	—{
Atlides hatesus (Great Purp	le Hairstreak)			<u> </u>	-

<u>Intial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)</u> _uctions

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

rdylanthus rigidus = CR | Plantago patagonica = PP

_	Antirrhinum coulterionum	= AC Collinsia concolor = CC	
-	/ <u> </u>		
6/	Amsinckia menziesii	Rancher's Fiddleneck	
С	Antimhimum coulterianum	Coulter's Snapdragon	
0	Antimhinum nuttallianum	Nuttail's Snapdragon	
15	Asclepias fascicularis	Narrow leaf Milkweed	
0	Boechera sp.	Rock Cress	
n	Calandrinia ciliata	Red Maids	
o	Calochortus concelor	Gulden-bowl Mariposa Lily	
o	Calystegia longings	Morning-glory	
o	Camissonia sp.	Sun Cup	- {
Ϊ.	Castilieja exerta	Paintbrush	-1
Ü	Caulanthus haterophylius		- 1
6	Coulonthus simulans	San Diego Jewelflower	1
		Payson's Caulanthus	
0	Ceanothus cuneatus	Buck Brush	
C	Ceanothus groggii	Cup-leaf-lilac	
O	Ceanothus feucodermis	Chaparral Whitethorn	
:1	Chaenactis artemisiifolia	White Pincoshion	
4	Chaenactis glabriuscula	Yellow Pincushion	
0	Clainetis sp.	Clematis	ı
O	Collinsia concolor	Southern Chinese Houses	-
0	Cordylanthus rigidus	Dark-tip Blird's Seak	Į
O	Coreopsis californica	California Coreopsis	ŀ
G	Corethrogyne filaginifolia	Common Sand-aster	
0	Ctyplenthe sp.	Cryptaniha	
o.	Cucurbita foetidissima	Calabaziila	
41	Descurainia sp.	Tansy-mustard	
0	Dicentra chrysontha	Golden Ear-drops	
.)	Dichelosternma cepitatum	Blue Dicks	
ō.	Duallaya sp.	Dudleya	1
0	Emmenanthe pondulifera	Whispering Bells	Т
0	Eriestrum sp.		Т
n	Ericameria sp.	Woolly-star	1
6		Goldenbush	
	Erigeron foliosus	Leafy Daisy	
0	Eriodictyon trichoculyx	Halry Yerba Samla	
• •	Eriogonum fasciculatum	Inland California Buchwheat	
u .	Eriogonum sp	Buckwheat	
	Eriophyllum sp.	Golden-yarrow	
ø	Erodium cicularium*	Red-stern Storksbill	1
O.	Erysisnium capitatum	Western Wallflower	1
O	Eschscholzia californica	California Poppy	1
o	Eucrypia chrysanthomilolia	Spotted Hidesced	
O.	Euthamia cocidentalis	Western Goldonrod .	ı
Ç	Garrya veutchii	Carlyon Silk Tassel	
ο	Gilia sp.	Gilia	
O	Graphalium	Cudweed	
۰.	Guillenie lasiophylla	California Mustard	
e	Guliorrezia sarothrae	Broom Matchweed	
:1	Heliotropium curassevicum	Saft Helrotrope	
5	Hirshfeldia incana	Short-pod Mustard	
01	Lamium amplexicable	Henbit	
v/	Lasthania gracilis	Common Goldfields	1
6	Layia glandulosa	White Layis	1
0	Lepidium sp.	Pepperweed	1
15	Linenthus bollus	Desort Beauty	
8	Linanthus dichotomus	-	
Ü	Lonicera subapiceta	Evening Snow	
c	Malacolhrix californica	Johnston's Honeysuckle	
ü		California Dandelion	1
	Melacothrix clevelandii	C'eveland's Malacothrix	
0	Marah macrocarpus	Wild-cucumber	
0	Mamubium vulgare*	Horehound	
0	Matricaria matricarioides*	Common Pincapple-weed	
0	Mentzelia veatchiuna	Veatch's Stick-leak	
0	Microsteris gracilis	Slender Phiox	
0	Mimulus sp.	Monkeyflower	
(·	Mentopolla muozaisii	Small-flower Baby Blue Even	4

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nemogalla munzeişii

Orobanche bulboso

0	Osmadenia tenella	Osmadenia
0	Pagonia californica	California Peony
.:	Pectocarya sp.	Pectocarys
15	Phecetia sp.	Phacelia
U	/ Pholistoma membranaceum	White Fiesta Flower
V	Plagiocothrys sp.	Popcomflower
ত	Plantago patagonica	Desert Plantain
o	Platystemon californicus	Cream Cuns
o	Prunus ilicifolia	Holly-leaf Cherry
o	Ratinesquia neomoxicana	Desert Chicary
o	Ribus quercetonim	Oak Gooseberry
0	Rompa nasturtium-aquaticum	Water-cress
6	Rose californica	California Rose
13	Saltugilia australis	Southern Gilia
::	Senecio californicus	California Buttenvoed
e	Senecio ffaccidus	Butterweed
\mathbf{a}	Sidakea mulvaeflora	Checker-blogm
o	Sisymbrium sp.	Tumble Mustard
o	Solidago californica	California Goldenrod
o	Slachys ajugoidos	Hedge-nettle
0	Stophanomeria sp.	Wres(hplan)
α	Streptanthus campastris	Southern Jewelflower
D	Styloctine gnaphalloides	Everlasting Nest-straw
o	Tetradymia comosa	Cotton-thorn
0	Thysanocarpus sp.	Fringepod
0	Trichostemma parishii	Mountain Bluecuris
a	Tropidocarpunt gracile	Slender Dobie-pod
0	Uropeppus findloyl	Silver Puffs
0	Viola purpurea	Oak Yellow Violet
O.		•
0		
٥	Other Flowering Plants:	
	-	

Rare Wildlife or Rare Plants:

0

o o

Recorder:	KHOsh	Addil	Person:	Ŋ	, Oate:	19/2011	GPS Unit :	10
Project:	Concentrix Solar Pr	goject Map #: _	Survey	/ Sxn:	QCB Protecti Surv	rev#	of	6 .
TIME	(24-hour) Tor	rep (F*): I Wand (a	wg/mea)	% CC		Shky		
Stam /O		69 7 3	-	- حَيْ				
	:	——	725	·—	_ بروهور (موجع)	overcest c <u>rizzku</u>	SAMME.	
	-	· · · · · · · · · · · · · · · · · · ·	⁄ጁờ _	<u> </u>	- PATY	overegaj , <u>" firiza o</u>	thower	_
元-	" ——— .	67 . 7.47	10	٠ ـ ـ ـ	patchy _	oversast dheele	shower	
I_		<u>'</u> _ '			close perchy	overcust druzio	shower	
		_			·		•	
<u> </u>		_	- - 	——·I				1
Eng 4	ر حی – حجی	59 72.5/	6.8	•	clear polichy	<u>byGrast</u> cho <u>yle</u> overcast chuzki		
Habitat On-s					ay soils, old roads, various nec		al-cwe-	
Nymphalide	ae (Brushfooted Butt	orfloo)		, _ <u>Total</u>	Managhta (Pklanca)			Total
	as oditha (Quino Chec			-	Hesperiidae (Skippers)			⊣
	as chalcedona (Henne				Erynnis funeralis (Funeral			┧
	leanira (Wright's Chec				Erynnis tristis (Sad Duskyw		-	<u>↓</u> і
	californica (California)			⊣	Erynnis propertius (Properti		· ·	Z.
	gobbii (Gabb's Checks				Erynnis brizo (Sleepy Dusk)			_
					Pyrgus albescens (Checker			<u> </u>
• млусжжөз	mylilla (Mylitta Creso	enij			Hesperia jubia (Jubia Skipp	er) MCC		<u> </u>
Annough C	oenia (Common Bucko	'ye)- //∀ ////		9	Polites sabuleti (Sandhill Si	kipper) / 🔀 🛷	X	35
	nnabella (West Coast				Megathymidae (Glant Skipp	ers)	<u> </u>	
	italania (Red Admiral)] _	Megathymus учесяя (Yucc	a Grant Skipper)		
	ardui (Painted Lady)			<u> </u>				<u>.</u> П
	irginiensis (Virginia La				Other Butterflies:		:	<u> </u>
	californica (California				l			
	dlikweed Butterflies)	<u> </u>			<u> </u>			Ţ
	exippus (Monarch)			!				ī
	lippus (Queen)] '
Satyridae (8			_	→ .				Τ' ' '
	<i>ipha californica</i> (Comr hites, Sulphurs)	non California Rin	glet)					ļ · .
	e (Cabbage White)		-·· <u>i</u>	→ ·		·· .		 i
	mbni (Spring White)			·	 	·	<u> </u>	 -
Pontia buc	kerii (Beker's White)	· ·		}				l
Pootia pro	forfice (Common White	e) ///-(//						-
Anthochac	is sara (Sara Orangeti	D)	<u> </u>	٦ ا				·
	is cuthura (Felder's Or			 -				-i -i
	vuntis (Desert Pearly I					<u> </u>		<u> </u>
	ytherno (Orange Sulpt			-				∔ . ∣
	fordii (Harford's Sulphi		- —	_2	-			<u> </u>
	le (Dainty Sulphur)	<u> </u>		⊣ -	 -			.
	e (Swallowtails)	· — · · :	— ·-	_	<u> </u>	<u>-</u>		i
	yxeries (Desert Black	Swallousails		·	Notes:	· - · · · · · · ·		
	ymedon (Pale swallow			·· · —		مستكيبون مديت	C adap.	
	Western Tiger Sy				hear many 608	etterthis.		— ∣
	(Metalmarks)	warowalij		- 1	<u> </u>			↓ <u>_</u> '
Academia	mormo (Behr's Mctair	TO ALLAND	70°	 a -		·	. , . 	
Lucranidae	(Hairstreaks and Bit	Hark) /// XOCX //	Z//	40	Cordylastha	<u>- }/ +</u> _	2 <u> ~ _ </u>	ļ!
	ladon (Spring Azure)			<u> </u>		auties _		
	<u> </u>			·	· — · ·— ·			<u> </u>
	pa <i>rina</i> (Marine Blue) n axila (Western Pygm			 -	 			نـ اـ
			 —	 	ļ <u> </u>			Щ. □
	che lygdamus (Southe		<u></u>					
	ceraunus (Edward's I	e)		- -				
	on (Acmon Blue) //			., 2 _				· !
	movensis (Sonoran Blu			ļ . <u> </u>	<u> </u>		. —	[
	auguslinus (Brown Él							[]
Callophr <u>y</u> s	perplexa (Perplexing	Green Hairstreak)				. — —		;1
	olinus (Gray Hairstrea				· · · ·			;
Alixles hali	osus (Great Purple Ha	iirstreak)		Ī				
Ever	e amountala			'Y ⁼				$i \longrightarrow$

ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

 $Antirrhinum\ coulterionum\ = AC \quad Collinsia\ cancolor\ = CC \quad Cordylanthus\ rigidus\ = CR \quad Plantago\ patagonica\ =\ PP$

<u>Antirrhinum coulteri</u> anu	ım = AC _ Collinsia concolor = (
 Amsinckia menziesii 	Rancher's Fiddleneck
 Antirrhimum coulterianum 	Coulter's Snapdragon
 Antienieum nuttalliaeum 	Nuttairs Snapdragon
 Asclepias fascicularis 	Narrow-leaf Milkweed
o Boechera sp	Rock Cress
Calendrinia ciliata	Red Maids
Calochortus concelor Calvetonio Inneino	Golden-bowl Mariposa Lify
ampoing in the photo	Morning-glory
 Camissonia sp. Castilleja exerta 	Sun Cup
Caulanthus heterophythis	Paintbrush
Caulanthus simulans	San Diego Jewelllower
Ceanothus cuneatus	Payson's Caulenthus
Ceanothus gregori	Buck Brush
 Ceanothus leucodormis 	Cup-leaf-filac Chaperral Whytethom
 Chaenactis artemisidolia 	White Pincushion
 Chaonactis glabriuscula 	Yellow Pincushion
 Clematis sp. 	Clematis
Collinsia concolor	Southern Chinese Houses
 Cordylanthus rigidus 	Dark-tip Bird's Beak
 Coreopsis catifornica 	California Coreopsis
Corethrogyne fileginifolia	Common Sand-aster
Cryptantha sp.	Cryptantha
Cucurbita foetidissimo Descripcio en	Calabazirla
o Descurainia ap. o Dicentra chrysantha	. Tansy-mustard
Dicheloatemnie capitatum	Golden Ear-drops
Dudleya sp	Blue Dicks
 Emmonanthe pendulitera 	Dud/eya
 Enastrum sp. 	Whispering Bells Woolfy-star
n Ericameria sp.	Goldenbu <u>sh</u>
 Erigeron foliosus 	Leafy Daisy
 Erlodictyon trichocalyx 	Hairy Yerba Savita
 Enogonum fasciculatum 	Inland California Buckwheat
 Eriogonum sp. 	Buckwheat
Eriophyllum sp.	Golden-yarrow
Erodium cicutarium*	Red-stem Storksbill
Erysismum capitatum Eschecholzia californio	Western Wallflower
- was demonstrated camping to	California Poppy
 Eucrypta chrysanthemitolia Euthamia occidentalis 	Spotted Hideseed
Garrya veatchii	Western Goldenrod
Gilia sp.	Canyon Silk Tassel
Gnaphalium	Gilia Customent
Guillenia fusiophylla	Cudweed California Mustard
Gutiorrezia serothrae	Broom Matchweed
Heliotropium curassavicum	Salt Hellotrope
Hirshfoldia incana	Short-pod Mustard
Lamium omplexicavie	Henbit
Lasthonia grocilis	Common Goddfields
Layia gisudulosa	White Layia
Lepidium sp.	Papperweed
Linanthus bollus	Desert Beauty
Linanthus dicholomus Lonicera subspicata	Evening Snow
Lonicera suospicata Malacolhrix californica	Johnston's Honeysuckle
Malacothrix clevetendii	California Dandellon
Mareh mecrocarpus	Cleveland's Malacoth/lx
Marrubium vulgare*	Wild-sucumber
Matricaria matricarioides	Horehound
Mentzetia voetchiena	Common Pineapple-weed Vealch's Stick-leak
Microsteris gracilis	Stender Philox
Mintulus en	AA A

Monkeyflower.

Small-flower Baby Blue Eyes

Chaparra) Broom-rape

Mintulus sp.

Nemophila menzaisii

Orobanche bulbosa

12	Osmadenia tenella	Osmadenia
ŋ	Paecnia californica	California Pechy
0	Podlocarya sp.	Pectocarya
0	Phacelia sp.	Phacelia
:)	Phonstoma membranaceum	White Flesta Flower
0	Plagiobothrys sp	Popcomflower
•:	Plantago patagonica	Desert Plantain
U	Plotystemon californicus	Cream Cups
0	Prunus Ilicifolia	Holly-leaf Cherry
0	Rafinosquia noomexicena	Desert Chicory
0	Ribes quercetorum	Oak Gooseborry
Q	Roripa nastudium-equaticum	Water-cress
0	Rosa californica	California Rose
а	Saltugijia australis	Southern Gilia
0	Senecia californicus	California Butterweed
٥	Senocia fisocidus	Buttonweed
ō	Sidalces malvaellora	Checker-bloom
O	Sisymbrium sp.	Tumble Mustard
υ	Solidago celifornice	California Goldenrod
ø	Stachys ajugoides	Hedge-nettle
0	Stophanomeria sp.	Wreathplant
41	Streptenthus compostris	Southern Jewelflower
9	Stylockno gnaphalioides	Everlasting Nest-straw
Ģ	Tetradymia contosa	Cotton-thorn
::	Thysanocarpus sp.	Fringepod
o	Trichostemma partshii	Mountain Sloecuris
0	Tropidocarpunti gracilo	Slonder Doble-pcd
С	Uropappus lindloyi	S:Ivo: Puffs
0	Viola purpurea	Oak Yellow Violet
(a		4 clion AlbiM
. 1		
0	Other Flowering Plants:	

Other Flowering Plants: Astrogalac

Rare Wildlife or Rare Plants:

<) o

Quino Checkerspot Butterfly Protocol Survey --- Field Data Sheet <u>Concentrix Solar Project</u> Map #: Survey Sxn: QCB Protocol Survey # af TIME (24-hour) Tomp (F1) Wirel (avg/max) Start clear anich) overcost STATAGE clear dřízale aaid:y gyracast \$EXTWC4 drizzw dear Delichy overcast SJX)rev@ clear onichy avercasti druzzka shew <u> 2010)Y</u> dog clore shower Habital On-site (circle): open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, various nectar sources Total Total Nymphalidae (Brushfooted Butterfiles) Hesperiidae (Skippers) Euphydryos editha (Quino Checkerspot) Ervanis funoralis (Funereal Duskywing) Euphydryas chalcedona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalia leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Sleepy Duskeywing) Chlosyne gabbii (Gabb's Checkerspol) Pyrgus albescens (Checkered Skipper) Phyclodes mylitte (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coenia (Common Buckeya) Polites sebuleti (Sandhill Skipper) Vanessa annabella (West Coast Lady Megathymidae (Glant Skippers) Vanessa atalanta (Red Admiral) Megathymus yuccae (Yucca Giant Skipper) Vanessa cardor (Painted Lady) Vanossa virginiansis (Virginia Lady) Other Butterflies: Nymphalls californica (California Tortoiseshell) Danaides (Milkweed Butterfiles) Daneus plexippus (Monarch) Danaus grippus (Queen) Satyridae (Satyrs) Coanonympho californica (Common California Ringlet) Pleridae (Whites, Sulphurs) Pieris rapae (Cabbage White) Pantia sisymbrii (Spring White) Pontia beckeni (Beker's While) Pontia protodice (Common White) Anthocheris sare (Sara Orangetip) Anthocharis cethure (Felder's Orangetip) Euchico hyantis (Desert Pearly Marble) [] Colias eurytheme (Orange Sulphur) Colles harfordii (Harford's Sulpher) 📢 Nethalis iole (Dainty Sulphur) Papilionidae (Swellowialis) Notes: Papilio polyxenes (Desert Black Swallowiail) Papilio eurymedon (Pale swal.owtail) Papilio rululus(Western Tiger, Swellowiail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Calastrina ladon (Spring Azure) Leptotas marina (Marine Blue). Brephidium exile (Western Pygrny Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue) Icuria scmon (Acmon Blue) (Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Elfin) Callophrys perplexa (Perplexing Green Hairstreak) Strymon molinus (Gray Hairstreak) Allides halesus (Great Purple Hairstreak)

H17

Recorder: Milke Courses Add'l Person: Jima		_	DO APRILI Z	<u>) </u>	S Unit :	<u>د</u>
Project: Concentrix Solar Project Map #: 4 Survey Sx	gr <u> </u>	OCB Protoco	ol Survey#	4	of	5
TPUE (24-hour) Temp (F'): What (evg/inex) %	GC .		8in			
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1600 70 3-12 6	Z	po	utchy evergoss	Cri <u>za</u> le	Showes	_
<u> </u>		deer po	aticfly givercost	anzio	shower	
End :		der k	econy mysicast	d-izzl u	shower	
Habitat On-site (circle): open solls hilltops, dages work outcrook soil	l crusts) cl					
Nymphalidae (Brushfooled Bulterfiles)		Hesperiidae (Skippe:	78)			- 70.21
Euphydryus editha (Quino Checkerspol)		Erynnis funeralis (Fi		לנ		· –
Euphydryas chalcodonu (Henne's Checkerspot)	•	Erynnis tristis (Sad I				 - "
Thessalia leanire (Wright's Checkerspot)	 :	Erynnis propertius (I		ving)		
Chlosyne catifornica (California Patch)	-	Erynnis brizo (Sleep				
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus albescens (C		ſì	—	
Phyciodos mylitta (Mylitta Crescent)		Hesporia jubia (Jubi		·,		ੁਕਾ
Junonia coania (Common Buckeye)	18	Politos sebuleti (Ser				1 1
Venessa arinabolla (West Coast Ledy)		Megathymidae (Glan			- · · · · ·	١ ١
Vanessa atalanta (Red Admiral)	Ì	Megathymus yuccer		ipper)		¦ ·
Vanessa cardui (Painted Lady)	-		. <u></u>			İ
Vanessa virginiensis (Virginia Lady)		Other Butterflies:				
Nymphalis californica (California Tortoiseshell)		<u>†</u> .				
Danaidae (Milkweed Butterflies)		··-				
Danaus plexippus (Monarch)					_	i
Danaus gilippus (Queen)	i					i
Salyridae (Salyrs)						i
Совлопулірна californica (Common California Ringlet)	[<u> </u>
Pleridae (Whites, Sulphurs)	Ĺ					
Piens rapae (Cabbage White)						!
Pontia sisymoni (Spring White)	-3"					i
Pontia beckerā (Beker's White)						Į
Pontia protodice (Common White)						[_
Anthocharis sara (Sara Orangetip)						i
Anthocharis celhura (Felder's Orangetip)						<u>!</u> .
Euchlos hyantis (Desett Pearly Marble)	_					i •
Colles eurytheme (Orange Sulphur)	ಎು					<u>!</u>
Colles harfords (Harlord's Sulphur) Nathairs role (Dainty Sulphur)				<u> </u>		!
Papillonidae (Swallowtails)	<u> </u>			····.		·
Papilio polyxenos (Desert Black Swallowail)		Notes:	0.41.	 	_ : :	
Papilio eurymeden (Pale swallewtail)		WCB208	BUACE T	HILLD 14	\$50 610 17	<u> </u>
Papilio rufulus(Western Tiger Swallowtail)		MC 6309				<u></u>
Riodiniade (Metalmarks)		mc8110	_		_	
Apodemia mormo (Behr's Metalmark)		(WC (22 1)			^	<u> </u>
Lycaenidao (Hairstreaks and Blues)	775	Mic Hr ol		<u> - [1343</u>		}
Gelastrina tudon (Spring Azure)	}	MC SHOL	<u> </u>			
Leptotes manna (Marine Blue)		MCSGOI _ MCSGOI _		PAIZZZ		!
Brephidium cxile (Western Pygmy Blue)			1105-00	Falcow)(yvezt <u>ut)</u>	!
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	· ···-	MCHLOS .	H.O.J.W.C	O TISY		i
Hemiargus ceraunus (Edward's Blue)	ŀ	··-				· · · ·
Icarie acmon (Acmon Blue)	3					ł
Philotos sonorensis (Sonoran Blue)	. •	<u> </u>				<u> </u>
Callophrys augustinus (Brown Elfin)	·-	·				i
Cullophrys perplexa (Perplexing Green Hairstreak)	 		 -			i
Strymon melinus (Gray Hairsfreak)	<u> </u>	·	·			i ·
Attidos hateaus (Great Purple Hairstreak)						i
		<u> </u>				į ·

Al Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

ease Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Amsinckia monziosil Rancher's Fiddleneck Osmadania tenella c Osmadenia Antirrhimum coulterianum Coulter's Snapdragon . Paeonia californica California Peony Anticrhinum nuttallianum Nuttall's Snapdragon : Pectocarya sp Pectocarya Asclepias fascicularis Narrow-leaf Milkweed Phacelia sp. o Phacelia: Boochera so. Rock Cress Pholistoma membranaceum White Fiesta Flower Calandrinia citiata Red Maids Plagicoothiya sp.\ Popoorn/lower Calcuhortus concolor. Golden-bowl Mariposa Lily Plantago patagonica Desert Plantain Calystegia longipes: Morning-glory Platystemon californicus Cream Cups Camissonia sp. Sun Cup Prunus ilicifolia Holly-lest Cherry 41 Castilleja exerta Paintbrush. S.I Ralinesquia neomexicana Desert Chicory o Caulanthus heterophyllus San Diego Jewo/flower Ribos quercetarum Oak Gooseberry Caulanthus simulans 9 Payson's Caulanthus Rompa nasturtium equalicum Ö Water-cress Cannothus cuneatus Book Brush Ross californica California Rose Caanothus greggii o Cup-leaf-filac o Saltugilia australis Southern Gilia Ceanothus teucodennis Chaperral Whitelborn Senecio californicus £: Cabiornia Butterweed e. Chuenactis artemisidotia White Pincushion e) Senocio flaccidus Butterweed. ø Chaenactis glabriuscula Yellow Pincushion Sidaltea malvaellora α Checker-bloom o Clematis so. Clematis ø Sisymbrityn sp. Tumble Mustard e) Collinsia concolor Southern Chinese Houses ø Solidago californicu California Goldonrod Cordylanthus rigidus Oark-tip Bird's Beak 0 Stachys ajugoides Hedge-nettle Corcopsis californica: California Coreopsis Stophonomaria sp. Wreathplant Coreth<u>rogyne</u> filaginifolia Common Sand-aster Streptanthus campastris Southern Jewelflower Cryptantha so Cryptentha ٠. Stylocline gnaphalioides Everlasting Nest-straw Cucurbito foetidissima Calabazi!la ō Totradymia comosa Cotton-thorn Doscurainia sp. o Tansy-mustard ø Thysomocarpus sp. Fringepod Dicentro chrysanthe Golden Ear-drops Trichostemma parishii a Mountain Bluecurts Dichelostemma capitatum Ď. Blue Dicks Tropidocarpum gmcile o Stender Dobie-pad Dudleya sp. Dudleya Ġ Uropappus lindloyi Silver Puffs Emmenanthe pendulitera Whispering Bells :> Viola purpurea Oak Yellow Violet Eriastrum sp. :: Woolly-star. Ericamoria sp. Goldenbush a Erigeran foliosus Leafy Daisy o Other Flowering Plants: Eriodiatyon inchocalyx Hairy Yerba Santa OEflogorium fesciculatum Inland California Buckwheat RHUS OVATA (NECTAL SOURCE) L) Eriogoriumi sp. Buckwheat 11 Eriophyllum sp. Golden-yarrow L: Erodium cicutarium* Red-stem Storksbill υ Erysismum capitatum Western Wallflower o Eschscholzia galifornica California Poppy ō Eucrypta chrysanthemilota Spottod Hideseed a ø Euthamia occidentalis Western Goldaniad Rare Wildlife or Rare Plants: o O. Garrya veatehii Canyon Si'k Tasset 0 Gilia sp. O Giba 1: Ω Gnaphallum Cudweed 5 41 Guillenia lasiaphylla California Mustard Gulierrezia sarothrae Broom Matchweed Heliotropium curassavicum Salt Heliotrope Hirshfeldia incana Shart-pod Mustard Lemium amplexicaule Henbit Lasthonia gracilis Common Goldfields Layia giandulosa White Layia Leoldium sp. Pepperweed. Linanthus better Descrit Beauty Linanthus dichotomus Evening Snow Lonicera subspicata Johnston's Honeysuckle Malacothrix californica California Dandelion Malacothrix clevolandii. Cleveland's Malacothrix 0.1 March macrocarpus Wild-cucumber o Merrubium vulgare* Horehound Matricaria metricarioides* :1 Common Piccapple-weed Muntzelia vealchiana Vealch's Stick-leak

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Microsteris gracilis:

Manioprivia monzeisii:

Orohencho bulboso

Mimulus sp.

Stender Philox

Monkeyflower

Small-flower Beby Blue Eyes

Chaparral Broom-rape

${\bf Quino\ Checkerspot\ Rutterfly\ Protocol\ Survey -- Field\ Data\ Sheet}$

Recorder: KHOS	Lore	Add'l Person:	<u>\$</u>	Date: 4/20/2+44_ GPS Unit:/	<u>ی</u> .
Project: Concentrix So	lar Project	Map#: Su	rvey Sxn:	QCB Protocol Survey #of	5
TIME (24-hour)	Tomp (F*):	Wind (avg/max)	% CC		
Start C) C=	63	2-/3	ا د	(closir) patienty overcust strong shower	
1040	68	25/4.9	7 - 2 - 1		
	70	\$ /13.2			
236		 		Dealth overcost ducte shows	·- —
	7.0	9.9/16	<u>ا</u>	Goe potetry overcast direct shower	
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	l - ,		l	clear patety parties duzze shower	
End 400	69	5/9.8	0	Clear patchy overcast driggle shower	
Habitat On-site (circle): oper	n soils, hilltops	, ridges rock outer	ops, soil crusts.	lay soils, old roads, various nectar sources	
We will be to the state of	vara metro		Total		Total
Nymphalidae (Brushfoote		··		Hespertidae (Skippers)	
Euphydryas editha (Quino				Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcodona (i				Erynnis tristis (Sed Duskywing)	
Thessalia leanira (Wright's		<u> </u>		Erynnis proportius (Propertius Doskywing) /	
Chlosyne californica (Calif				Erynnis brizo (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's C		· <u> </u>		Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitla (Mylitta				Hasperia jubia (Jubia Skipper) H. Juba ///	3
Junonia coenia (Common		<i>!//</i>	5	Polites sabuleti (Sandhill Skipper)	9
Vancssa annabella (West				Megathymidae (Glant Skippers)	<u> </u>
Vanessa atalanta (Red Ac				Megathymus yuccaв (Yucca Giant Skipper)	
Vanessa cardui (Painted					
Vanessa virginiensis (Virg				Other Butterfiles:	
Nymphalis californica (Ca		esnell)			
Daneldae (Milkweed Butto				Philase 14HV	
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Danous gilippus (Queen) Satyridae (Satyrs)			. —		
	lig ue en la grap	<u></u>	·		
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Coenonympha californica Pieridae (Mottee Sulphum		ifornia Ringlet)		1. tejonica 1111	_3
Pieridae (Whites, Sulphum	ş)	ifornia Ringlet)	· - · · · ·	Schinza aurantiaca	
Pieridae (Whites, Sulphum Pieris rapae (Cabbage Wh	s) hite)	ifornia Ringlet)		Schinza aurantiaca . Leptarctia californica 11	
Pieridae (Whites, Sulphum Pieris rapae (Cabbage Wh Pontia sisymbrii (Spring W	s) hite) /hite)	ifornia Ringlet)		Schinza aurantiaca . Legitarctia californica 11	
Pieridae (Whites, Sulphum Pieris rapae (Cabbage Wh Pontia sisymbrii (Spring W Pontia bockoni (Baker's W	s) hite) Vhite) Vhite)	ifornia Ringlet)		Schinza aurantiaca . Legitarctia californica ii	
Pieridae (Whites, Sulphun Pieris rapae (Cabbage Wh Pontia sisymbrii (Spring W Pontia bockorii (Baker's W Pontia protodice (Commo	s) hite) /hite) /hite) n White) //	ifornia Ringlet)	2-	Schinza aurantiaca . Legitarctia californica ii	
Pieridae (Whites, Sulphun Pieris rapae (Cabbage Wh Pontia sisymbrii (Spring W Pontia bockorii (Baker's W Pontia protodice (Commo Anthocharis sara (Sara Ch	s) hite) Vhite) Vhite) n White) // rangetip)		2-	Schinza aurantiqua . Legitarctia californica ii	
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Instructions

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterionum =	AC Collinsia concolor = CC
0	Amsinckia menziesii	Rancher's Fiddleneck
0	Antirrhimum coulterianum	Coultor's Snapdragon
	Antimhinum nuttallianum	Nottall's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
٥.	Boochera sp.	Rock Cress
¢.	Calandrinia cilieta	Red Maids
۰.	Calcehortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipes	Morning-glory
()	Camissonia sp.	Sun Cup Paintbrush
0	Castilloja exerta Caulanthus hoterophyllus	San Diego Jewelflower
	Caulaninus nelerophylius Caulaninus simulans	Payson's Caulanthus
0.0	Ceanginus cuncalus	Buck Brush
•	Conothus greggii	Cup-leaf-lilac
0	Ceanothus leucodermis	Chaparral Whitethorn
0	Chaenactis artemisiifolia	White Pincushion
6	Chaenactis olebriuscula	Yellow Pincushion
G	Clemens ap.	Clematis
Ö	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
ri.	Coreopsis californica	California Coreopsis
В	Corethrogyne filaginifolia	Common Send-aster
9	Cryptantha sp.	Cryptantha
	Cucurbita foetidissima	Calabazilla
D	Descurainia sp.	Tansy-mustard
G	Dicentra chrysantha	Golden Ear-drops
0	Dichelostemma capitalum	Blue Dicks
0	Dudleya sp	Dudleya
в	Emmananthe pendulifora	Whispering Bells
0	Eriastrum sp.	Woolly-star
V	Ericemenia sp.	Goldenbush
t:	Erigeron foliosus	Leafy Daisy
0	Eriodictyon trichocalyx	Hairy Yerba Santa
o	Eriogonum fasciculatum	Inland California Buckwheat
a	Eriogonum sp.	Buckwheat
3	Erfophyllum sp.	Golden-yarrow
2	Erodium cicularium*	Red-stem Storksbit:
c	Erysismum capitatum	Western Wallflower
9	Eschachotzia californica	California Poppy
5	Eucrypta chrysanthemifolia	Spotted Hideseed
ü	Euthamia occidentalia	Western Goldenrod
0	Garrya veatchii	Carryon Silk Tas sel
0	Gilia sp.	G:lie :
(1	Graphalium	Cucweed
a·	Guillenia lasiophylle	California Mustard
0	Gulierrezie sarothrae	Broom Malchweed
٥	Heliotropium curussavicum	Salt Heliotrope
B.	Hirshleklia incana	Short-pod Mustard
or .	Lamium amplexicaule	. Henbit
•	Losthenia gracilis	Common Goldfields
-		White Layla
٥	Lepidium sp.	Pepperweed
0	Linenthus belius	Desert Beauty
0	Linenthus dicholomus	Evening Snow
0	Lonicetà subspicata Malacothrix californica	Johnston's Honeysuckie
0	Malacothrix clevelandii	California Dandelion
en en		Cleveland's Malacothrix
e 0	Marah macrocarpus "Marrubium yulgara"	Wild-cucember
Ü	Matricoria matricarioides*	Common Pincapple-weed
o o	Mentzella vealchiana	Vestch's Slick leak
() ()	Microstons gracilis	Vesion's Stick-leak Slender Phiox
0	Mimulus sp.	Monkeyflower
0	Nemophila menzaisii	Small-flower Baby Blue Eyes
	Ombarcha huboca	Changes Broom-rane

<u></u>	Osmadenia tenella	Osmadenia
6	Paeonia californica	California Peony
•	Pactocarya sp.	Pedacarya
<u></u>	Phacelia SD.	Phécelia
*	Pholistome mumbreneceum	
9		White Fiesta Flower
'n	Plagiobothrys sp.	Popcorntower
٥	Plantago patagonica	Desert Plantain
0	Platystemon californicus	Cream Cups
٥	Prunus ili cif olia	Holly-leaf Cherry
Ü	Rafinesquia neomexicana	Dosert Chicory
0	Ribas quercetorum	Oak Gooseberry
0	Romipa nastudium-equaticum	Water-cress
0	Rosa californica	Catifornia Rose
.0	Saltugilia australis	Southern Gilia
0	Senecio californicus	California Butterweed
0	Senecio traccidus	Butterweed .
^	Sidalcea malvaeflora	Checker-bloom
۴.	Sisymbrium sp.	Tumble Mustard
0	Solidago californica	Celifornia Goldenrod
U	Stachys ajugoides	Hadge-nettle
0	Stephanomeria sp.	Wreathplant
0	Streptanthus campestris	Southern Jewelflower
0	Styloclina gnaphalitidas	Everlasting Nest-straw
٥	Tetradymia comosa	Cotton-thorn :.
О	Trysanocarpus вр.	Fringeood
ø	Trichostemma partshli	Mountain Bluecurts
Ç.	Тгорідосвірнт gracile	Slender Dobia-pod
0	Uropappus lindleyi .	Silver Puffs
٥	Violo purpursa	Oak Yellow Violer
٥.		
0		
ο.	Other Flowering Plants:	
~	n/	

Rhus ovata

Rare Wildlife or Rare Plants:

٥

o

c

Chaparral Broom-rape

Orobenche bulbosa

${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey - Field\ Data\ Sheet}$

Recorder: Stephen	Rink	Add') Person: _			Date: 4/20/11 GPS Unit :	2_
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Habitat On-Site (Crista), 20161	- Solia. Illitops.	Thousa, took ontog		otal	ay solle, but roads valious nectar sources	Total
Nymphalidae (Brushfooter	d Butterflies)		— ı <u>·</u> ·	VIOL	Hesperiidae (Skippers)	10/4
Euphydryss edithe (Quino			─		Erynnis funeralis (Funereal Duskywing)	:
Euphydryas chalcedona (f		erspot)			Erynnis tristis (Sad Duskywing)	.
Thessalia teanire (VVright's					Erynnis propertius (Propertius Duskywing)	<u>ا</u> ا
Chiosyne californica (Calif					Erynnis brizo (Sleepy Duskeywing)	!
Chlosyna gabbii (Gabb's C			- +		Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitta (Mylitta					Hesperia juhia (Jubia Skipper)	
Junonia coenia (Common		· .		Ž,	Polites sabuleti (Sandhill Sxipper)	
Venossa annabolla (West	Coast Lady			,	Megathymidae (Giant Skippers)	
Vanessa atalanta (Red Ad	lm tai)				Mogathymus yuccao (Yucca Grant Skipper)	1:
Venessa cardul (Painted I			· 1			
Vanessa virginiensis (Virgi					Other Butterfiles:	! j
Nymphalis californica (Ca		eshell)			Sulpher se 1	i
Danaidae (Milkweed Butte			-			
Danaus plexippus (Monard	ch)					 -
Daneus gilippus (Queen)		·_			·	İ i
Satyridae (Satyre)		·				
Coenonympha californica		fomia Ringlet)			[··	†
Pleridae (Whites, Sulphurs		· · · · · ·				<u> </u>
Pieris rapae (Cabbage Wh						1 :
Pontia sisymbrii (Spring W					·	
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Pontra protodice (Commor	ı Witite) 4∰, M	<u>fi zen 1u </u>		<u>ų – </u>		
Anthocharis saru (Sara On	angetip) ///[[[]	<u> </u>	1	<u> </u>		
Anthocharis cethuru (Felde		<u></u>		<u> </u>		
Euchloe hyantis (Desen P						
Colles curytheme (Orange						
Colles harfordii (Harford's						
Nathalis iole (Dainty Sulph			l _		·	
Papillonidae (Swallowteile Popilio polyxenos (Desert			<u>·</u>	_	Notes:	ļ. ļ
Papilio surymedan (Pale s		: <u>aiij</u>			SRADOL DOLL	!!
Papilio natulus(Western Ti		· · · · · ·	$\overline{}$		} - · · · - · · · · · · · · · · · · · ·	l— {
Riodinlade (Matalmarks)			84 :: -7 -			├ ──∤
Apodemia тотю (Behr's				a ti		↓}
Lycaenidae (Hairstreaks a	metalinak) [74	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	<u>. 1840 7</u>	<i>e</i> 3		ļ !
Celestrina ledon (Spring A		·	_ _		····································	l ——.
Leptotes marine (Marine E		·			 	
Brophidium exile (Western		-··· — —			·-·-·	├ ──
Glaucopsycho lygdamus (Silvery blue1	-+	-	 	
Hemiargus cereunus (Edw			·		·	
Icana acmon (Acmon Blue			-· - ,	Į.		.
Philotes sonoronsis (Sono			— -	<u>,,, </u>	 	}
Callophrys augustinus (Bri			- +	—	 	
Callophrys perplexa (Perp		lairstreak)	— ∙⊢		··· - - · · · · · · · · · · · · · ·	
Strymon melinus (Gray Ha					· ·· · ·· · ·-	├i
Athes halosus (Great Pur		<u> </u>	-	— -	 	
				_	— ·· — · — ·	├ ──-

înstructions:

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirchinum coulterianum = AC Callinsia concolar = CC Cordylanthus rigidus = CR Plantago patagonica = PP

— -			
		B. L. D. B'adh	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
V	Amsinckia menziesii	Rancher's Fiddleneck	o Osmadenia lenulla Osmadenia
D	Antirchimum coulterianum	Coulter's Snapdragon	
. n	Antimhinum nuttellianum	Nuttall's Snapdragen	o Peclocaryo sp Peclocarya
r:	Asclepias fascicularis	Narrow-leaf Milkweed	r. Phocotla sp. Phacella
0	Boechera sp.	Rock Cress	 Pholistoma membranaceum White Fiesta Flower
o	Culandrinia ciliata	Red Maids	✓ Plagiobothrys sp. Popcomflower
ο.	Calachortus concolor	Golden-bowl Mariposa Lily	o <i>Plantago patagonica</i> Desert Plantain
c	Calystegia longipes	Morning-glory	o Platystemon celifornicus - Cream Cups
٥	Camissonia sp.	Sun Cup	o Prunus ilicifalia Holly-leaf Cherry
6	Castilleja exerta	Paintbrush	o Rafinesquia neomexicana Desert Chicory
0	Caulanthus heterophyllus	San Diego Jewelflower	n Ribes querceforum Qak Gooseberry
	Coulonthus simulans	Payson's Caulanihus	o Rompa nasturtium-aquaticum Water-cress
υ.	Genethus cimeatus	Buck Brush	o Rosa californica California Rose
		Cup-leaf-Illac	Sattugilia australis Southern Gilia
	Ceanothus greggii	Chaparral Whitethorn	Sonecio californicus California Bulterweed
0	Ceanothus leucodermis	White Pincushion	
C	Chaenachs artemisiifolia	Yellow Pincushion	
. 0	Chaenactis glabriuscula		
0	Clematis sp.	Clematis	
0	Collinsia concolor	Southern Chinese Houses	- Contrado tementos
a	Cordylanthus rigidus	Dark-tip Bird's Beak	o Stachys ajugoides Hedge-nettle
٥	Coreopsis californica	California Coreopsis	Stephanomeria sp. Wreathplant
0	Corethrogyne filaginifolia	Common Sand-aster	o Streptanthus compestris Southern Jewetflower
0	Crypteniha sp.	Cryptantha .	 Stylocline gnaphalioides Everlasting Nest-straw
c	Cucurbita foetidissima	Catabazilla	o Tetradymie comose Cotton-thom
. D	Doscurainia sp.	Tapsy-mustard	7 Thysanocerpus sp. Fringepod
0	Dicentra chrysantha	Golden Ear-drops	 Trichostemma parishii Mountain Bluecur's
٥	Dichelosiemma capitatum	Blue Dicks	□ Tropidocarpum gracile Stender Dobie-pod
a	Dudleya sp.	Dudleya	o Uropappus lindleyi Silver Putts
0	Emmenanthe pendulifera	Whispering Bells	o Viola purpurea Oak Yellow Violet
7	Eriastnım sp.	Wooily-star	
9	Ericanierie sp.	Goldenbush	
٥	Erigeron foliosus	Leafy Dalsy	o Other Flowering Plants:
. ,	Eriodialyan trichocalyx	Hairy Yerba Santa	o outer (journal of the control of
_		Infand California Buckwheat	
0	Eriogonum fasciculatum	Buckwheal	6
٥	Erioganum sp.		
۰,	/ Eriophyllum sp.	Colden-yarrow	0
150	Erodium cicutarium*	Red-stem Storksbill	
C	Erysismum capitalum	Western Wallflower	•
· B	Eschscholzia celifornica	California Poppy	
0	Eucrypta chrysanthemifoka	Spotted Hidesead	
. 0	Euthamia occidentalis	Western Goldenrod	 Rare Wildlife or Rare Plants:
n	Garrya vealchii	Canyon Silk Tassel	0
0	Gilia sp.	Glia .	•
п	Gnaphalium	Cudweed	·
υ	Guillenia lasiophylla	Catifornia Musterd	•
٥	Gulierrezia serothrae	Broom Matchweed	n e e e e e e e e e e e e e e e e e e e
0	Heliotropium curassavicum	Salt Heliotrope	C .
0	Hirshleldia incena	Short-pcd Mustard	•
0	Lamlum amplexicadio	Henbit	· ·
1	Lasthenia gracilis	Common Goldfields	
	Layia glendulosa	White Layla	0
9	Lepidium sp.	Pepperweed	
0	Linanthus bellus	Desert Beauty	to to
	Linanthus dicholomus	Evening Snow	, i
٥	Lonicera subspiceta	Johnston's Honeysuckie	e e
. 0		California Dandelion	
0	Melacothrix californica	Cleveland's Malacolinix	i '
п	Melacoltrix clevelandii		
C)	Marah macrocarpus	Wild-cucumber	
u	Marrubium vulgare*	Horehound	1. 4 · · · · · · · · · · · · · · · · · ·
	Matricaria matricarioidas"	Common Pineapple-weed	i)
, n	Montzelia vealchiana	Veatch's Stick⊣eak	u .
0	Microsteris gracilis	Slender Phlox	o.
o	Mimulus sp.	MonkeyRower	c. 8
0	Nemophila monzoisu	Small-flower Baby Blue Eyes	
40	Orobanche bulbosa	Chaparral Broom-raps	

Recorder: Margie Mulige Add Person:		Date: 4.25.11GPS Unit : /2	,
Project: Concentrix Solar Project Map #: 3 Survey S	хл:	QCB Protocol Survey # 5 of 5	
1 1 :	CE		
	5 1	palishy owiczej drużno shower	
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	<i>ò</i> -	Charles ownesset that shower	
1530 1772 4-9	Š	Charles the control of the control o	
]_	cina: paichy <u>nyrycas;</u> is iz/e shower	
/.L		clear patichy querigos drazie shower	
	— T	cina: patchy overcast grazie shoety	
End -			
Habitat On-site (circle), open soils, hilltops, ridges, rock outcrops, so		clear autory overcest errorin shower	
Habitat On-site (circle), open solls, milions, nages, ruck butchoust su	- Total		Fotal
Nymphaildae (BrusMooted Butterfiles)	T	Hesperiidae (Skippers)	O I G
Euphydryas editha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)	
Euphydrysis chalcodona (Henne's Checkerspot)	 	(Erynnis tristis (Sad Duskywing)	
Thesselia learnina (Wright's Checkerspol)	Ι.	Erynnis propertius (Propertius Duskywing)	
Chlosyne californica (California Patch)	-	Erynnis briza (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus albascens (Checkered Skipper)	
Phyclodes myliffa (Mylitta Crescent)	1	Hesperia jubia (Jubia Skipper)	
Junonia coenia (Common Buckeye)]	Polites sabuloti (Sandrill Skipper)	
Vanesse annabelle (West Coast Lady	1 —	Megathymidae (Giant Skippers)	
Venesse statenta (Red Admiral)	Ι΄	Megalhymus yuccao (Yucca Giant Skipper)	
Venessa cardui (Painted Lady)	0 1	1	
Variossa virginiensis (Virginia Lady)	T	Other Butterflies:	
Nymphalis californica (California Tortoiseshell)			
Danaidae (Milkweed Butterflies)	·		
Danaus plexippus (Menarch)			
Danous gilippus (Queen)	<u> </u>		
Saty: Apa (Satyrs)	 	<u> </u>	
Coenonympha californica (Common California Ringlet)	_		
Pleridae (Whites, Sulphurs)	'		
Pieris rapac (Cabbage White)	 -		
Pontia sisymbai (Spring White)			
Pontia beckerii (Beker's White)	ļ, —	(2)	
Pontia protodice (Common White)	ļ\$i ——	.	
Anthocharis sara (Sara Orangelip) Anthocharis cethura (Felder's Orangelip)	+		
Exchise hyuntis (Desert Pearly Marble)	ł	· · · · · · · · · · · · · · · · · · ·	
Colias ourytheme (Orange Sulphur)		· · · · · · · · · · · · · · · · · · ·	
Colles harfordii (Harfordia Sulphur)		2	
Nathalls idle (Dainty Sulphur)	1	\ <u>\&\</u>	
Papilionidae (Swallowtails)	 	Notes:	-
Papilio polyxones (Desert Black Swallowtail)	ļ	Birds-	
Papilio curymedon (Pale swallowtail)	十:	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Papilio rutulus(Western Tiger Swallowtail)		Black-thoughou Gray Nurher	
Riodiniade (Metalmarks)	1	Red-tril hand 2 2 ftyling	
Apodemia mormo (Behr's Melalmark)	the me	וון נאר נואר און אינו אינו אינו אינו אינו	
Lycaenidae (Hairstreaks and Blues)	1	(UG)	
Celastrina ladon (Spring Azure)]		
Loptotos marina (Marine Blue)			
Brophidium exile (Western Pygmy Blue)			_
Glaucopsycho lygdamus (Southern Biue/Silvery blue)]][[`	(2)	
Hemiargus ceraunus (Edward's Blue)			
Icaria acmon (Aomon Blue)	<u> </u>		
Philotes sonorensis (Sonoran Blue)			
Callophrys augustinus (Brown Elfin)			
Callophrys perplexa (Perplexing Green Hairstreak)	<u> </u>	NU.	
Strymon melinus (Gray Hairstreak)	<u> </u>		_
Attidus halesus (Great Purple Hairstreak)			
	1		

atlal Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, Catifornia (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Bolow:

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

-	Antirninum_coulterionum	= AC <u>Collin</u> sia c <u>oncolor</u> =
X		Rancher's Flodleneck
a	Antirrhimum coulterianum	Coulter's Snapdragon
0	Antirrhinum nuttellienum	Nuttaff's Snapdragon
0	Asclepies fascicularis	Narrow-leaf Milkweed
U	Boechera sp.	Rock Cress
С	Culendrinia ciliata	Red Maids
u	Calocharius concolor	Golden-bowl Mariposa Lily
Ų,	Calystegia tongipus	Morning-glory
ጂ	Comissonie sp	Sun Cup
0	Castilloja exerta	Painlbrush
0	Caulanthus helerophyllus	San Diego Jewefflower
U	Caulanthus simulans	Payson's Caulanthus
O.	Ceanothus cuneetus	8uc≭ Brush
×	Ceanothus greggii	Cup-leaf-l:lac
r, °	Ceanolhus laucedermis	Chaparral Whitethorn
9	Chaenactis artemisiifolia	White Pincushion
o	Chaennotis glabriuscuta	Yellow Pincushion
C	Clematis sp.	Clematis
0	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
O	Coreopsis californica	California Corecepsis
O.	Corethrogyne filaginifolia	Common Sand-aster
<u>`</u> ``		Cryptantha
13	Cucurbite footidissima	Calabazilla
\sim	Descurainia sp.	Tansy-mustard
41	Dicentra chrysantha	Golden Ear-drops
α	Dichelostemma cepitatum	Blue Dicks .
O.	Dudleya sp.	Dudleya
Ø.	Emmenanthe pendulifora	Whispering Rells
\circ	Eriastrum sp.	Woolly-star
سوو	Encameria sp. / Lea-6 bes	Goldenbush
U.	Ergeron foliosus	Leafy Daisy
ø	Erlodictyon trichocalyx	Heiry Yerba Santa
10	Eriogonum fasciculatum	Inland California Buckwhoat
ü	Еладопит вр.	Buckwheat
0	Eriophyllum sp.	Golden-yarrow
*	Erodium cicutarium*	Red-stem Storksbill
0	Erysismum capitatum	Wostern Wallflower
75	Eschscholzia californica	California Poppy
e .	Eucrypta chrysanthemitolia	Spotted Hidesesd
o	Euthamia occidentalis	Western Goldenrod
O	Garrya vestehii	Cenyon Sitk Tassel
LI	Gilia sp	Gilia
a	Graphalium	Cudweed
0	Guillenia tasiophytta	California Mustard
n	Gutionezia sarothrae	Broom Matchweed
ŝ	Heliotropium cumssevicum	Salt Heliotrope
•	Hirshfeldie ingene	Short-pod Mustard
o	Lamlum amplexicaulo	· Henbit
ᢦᢏ	Lasthenia gracilis	Common Goldfields
Ċ.	Layia glandulosa	White Layla
1>	Lepidium sp.	Pepperweed
M.	Litranthus bellus	Desert Beauty
0	Linanthus dicholomus	Evening Snow
r:	Lonicara subspicato	Johnston's Honeysuckle
D	Melecothrix californica	Cal fornia Dandelion
o	Malacethrix clevelandii	Cleveland's Malacothrix
×	Marah mucrocarpus	Wild-cucumber
6	Marrubium vulgare*	Horehound
9	Matricaria metricarioides*	Common Pineapple-weed
o	Mentzalia voetchiana	Veatch's Stick-leak
ō	Microsteris gracilis	Slender Phiox
o	Mimulus sp.	Monkeyflower
c	Neomatila menzonii	Small flower Date: Elve Even

Nemophila manzersii

Orobanche bulbosa

	- 	- · — — — —
O	Osmedenia funcila	Oshladenia
0	Pasonia californica	California Peony
>	Peclocarya sp	Pectocarya
Ŵ.	Phocelia sp. dephasis	Phacelia
C	Pholistomu membranaceum	White Fiesta Flower
×	Płagiobolhrys sp.	Popoornflower
n	Plantago patagonica	Dosert Plantain
43	Platystemen celifornicus	Cream Cups
:.	Prunus ilicifotia	Holty-leaf Cherry
ø	Rafinesquia neomexicana	Desert Chicary
::	Ribos quercelorum	Oak Gooseberry
0	Romipa nasturtium-aquaticum	Water-cress
6	Rosa californica	California Rose
cı	Sallugilin australis	Southern Gilia
o	Senecio californicus	California Butterweed
0	Senecio floccidus	Butterweed
0	Sidelcea malvaellora	Checker-bloom
×.	Sisymbrium sp. al figure	Tumble Mustard
Ŷ.	Solidago californica	
		California Goldenrod
	Stacttys ajugoides	Hedge-nettle
:1	Stephanomeria sp.	Wreathplant
ю.	Streptanthus compostris	Southern Jewelftower
э	Stylocline gnaphalioides	Everlasting Nest-straw
9	Tetradymia comosa	Cotton-thorn .
8.	Тћузалосвириз эр	Fringepod
×	Trichostomma parishii	Mountain Bluecorts
۰	Trapidoearpum gracile	Slender Doble-pod
×	Uropappus lindleyi	Silver Puffs
C	Viola purpurea	Oak Yellow Viole1
O.		•
٥		
٥	Other Flowering Plants:	•
9	REUS OVATA	
9	Laplosiphon leanmo	ni
o.	- y 1	1
a		•
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8	Rare Wildlife or Rare Plants;	
17	Astragalus douglas	is persmove
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o .	berara viscida	
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C.	MMLB01-50	
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Recorder: An towards Guticrica Add'l Person:	Nove	Date: 25 AFR 2001 GPS Unit : 2
Project: Concentrix So'ar Project Map #: 5 Surve	ey Sxn: <i>Concer</i>	GCB Protocol Survey # 5 of 5
TIME (24-hour) Tomp (F1); Wind (avg/mss1)	% GC	\$q
Start _ 0900 62 0/0	15	paloty overcast denote shower
	īš [crisis policity outsides drizzlo entryers
	15	
	<u>'></u> +	
1200 76 21/70 1	·5 —	(Rea) pate/sy evereust district shower
	/S _ _	
140 76 601/18	45	
End 1530 74 9.7/15	15	con patring granussi decade shower
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops	s, soil crusts, cla	ay soils, old roads, vanous nectar sources
Nymphalidae (Brushfooted Butterfiles)	— , ^T <u>otal</u> ,	Hesperiidae (Skippers)
Euphydryas oditha (Quino Checkerspol)	- 1 — 1	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspot)	· ···+ · }	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)		Erynnis proportius (Propertius Duskywing)
Chiosyne californica (California Patch)	1 -	Erynnis onzo (Sleepy Duskeywing)
Chlosyne gubbii (Gabb's Checkerspot)	— · · — ·	Pyrgus albescens (Checkered Skipper)
Phyciodes mylita (Mylitte Crescent)	1 -1	Hosperia jubia (Jubia Skipper)
Junoma coenia (Common Buckeye)	·- -	Polites sebuleti (Sandhill Skipper)
Vonessa annabelia (West Coast Lady)	·	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admital)		Megathymus yuccho (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	— 	
Vanesse virgimunsis (Virginia Lady)		Other Butterflies:
Nymphalis californica (California Tortoiseshell)		· · · · · · · · · · · · · · · · · · ·
Danaidae (Milkweed Butterfiles)	· ·	
Danaus plexippus (Monarch)		—····—
Danaus gilippus (Queen)		
Salyridae (Salyrs)		···
Counceympha californica (Common California Ringlet)		· · · · · · · · · · · · · · · · · · ·
Ploridae (Whites, Sulphurs)	1 1	
Pieris ropae (Cabbage White)		
Pontia sisymbrii (Spring White)		
Pontia beckeni (Beker's White)		
Pontia protodice (Common White)	3	<u> </u>
Anthocharis sara (Sara Oranget p)	_]	
Anthocharis cethura (Felder's Orangetip)		
Euchice hyantis (Desert Pearly Marble)		
Cokas eurytheme (Orange Sulphur)		<u> </u>
Colias harfordii (Harford's Sulphur)		
Mathelis ide (Dainty Sulphur)		
Papilionidae (Swallowialis)		Notes:
Papilio polyxenes (Desert Black Swallowtail)		CORA WEST CARU BOWR BUSH -CO+-
Papino eurymedon (Pale swalfowta I)	.	ATFLITINU, RTHA, LEGO
Papilio rutulus(Western Tiger Swallowtail)	<u></u>	
Riodiniade (Metalmarks) (और 14र कर अर्थ अर्थ अर्थ	1.34.7	We San and a second and a second as a seco
Apodemia mormo (Bahr's Metalmark) (iz iz pri pri pri pri pri pri pri pri pri pri	M 65	11 2 recorded
Lycaenidae (Hairstreaks and Blues)		Side blotched hand-tenced literal
Cotastrina Indon (Spring Azure)		sacotton failed rubbit ca groved Squire
Loptotes marino (Marine Blue)	· ‡ ·	gophersnate grazing
Brephidium cxile (Western Pygmy Blog)	<u></u>	Anti- Sulanter
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	+ —	
Hemiargus ceraurius (Edward's Blue)	÷ 1—	├ ···· · · · · · · · · · · · · - - · · · · · · · · ·
Icana acmon (Acmon Blue)	 .	├ · — - - - · · —
Philotes sonorensis (Sonoran Bive) Cellophrys augustinus (Brown Elfin)	— +	
Callophrys augustrius (plown Ellin) Callophrys perplexa (Perplexing Green Hairstreak)	− ∤ − ···· ·	
Strymon molinus (Gray Hairstreak)	 	
Attides hateaus (Great Purple Hairstreak)		
The contract of the contract o		├─· ·──

⊮ial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail,

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

7	· Amsincius menziesii	Rencher's Fiddleneck	I -:-	Osmadenia tenella	Osmadenia
n	Antimhimum coulterianum	Coultor's Snapdragon	"	Pagonia californica	California Peony
43	Agtirchinum nuttellianum	Nuttall's Snapdragon	٠	Poctocaryo sp.	Pectocarya
11	Asclepias fasciculoris	Narrow-leaf Milkweed	- J	Phacelia sp.	Phacelia
υ.	Bocchera sp.	Rock Cress		Pholistoma mombranaceum	White Fiesta Flower
£.	Colandrinia ciliata	Red Maids	مجتر	Plagfobothrys sp.	Popcoraflower
0	Cafochortus concolor	Golden-bowl Mariposa Lily		Plantago patagonica	Desert Plantain
a	Catystegia tongipes	Marning-glary	1	Platystemon californicus	Cream Cups
42	Carnissonia sp.	Sun Cup	5	Prvnus ilicitolia	Holly-leaf Cherry
4)	Castilleja exerta	Paintbrush	"	Rafinesquia neomexicana	Desert Chicory
O.	Caulanthus heterophyllus	San Diego Jewelflower	- 6	Ribos quercelorum	Oak Gooseberry
:3	Caulanthus simulans	Payson's Caulanthus		Rompa nasturtium-aquaticum	Water-cress
٥	Coanothus cuneatus	Buck Brush		Rosu californica	California Rose
o	Ceanothus greggii	Cup-leaf-filac	1 0	Sattugilla australis	Southern Gilia
α	Coanolhus leucodernis	Chaparral Whitelborn		Senecio celifornicus	California Butterweed
0	Chacnactis artemisifolia	While Pincushion		Senecio Reccidus	Butterweed
0	Chaenectis glabriuscula	Yellow Pincushion	. 0	Sidulosa malvaellora	Checker-bloom
J	Clematis sp.	Clematis		Sisymbrium sp.	Tumble Mustard
O	Collinsia concolor	Southern Chinese Houses		Solidago californica	California Goldenrod
15	Cordylanthus rigidus	Dark-tip Bird's Beak	ه ا	Stachys ajugoides	Hedge-nettie
0	Coreapsis californica	California Coreopsis	, č	Stephenomena sp.	Wreathplant
0	Corethrogyne filaginifolia	Common Sand-aster		Streplanthus campostris	Southern Jewelflower
0	Cryptantha sp.	Cryptentha		Stylocline gnaphalioides	Evertasting Nest-straw
6	Cucurbita footidissima	Calabazilla	;	Tetradymia comosa	Cotton-thorn
0	Descurainia sp.	Tansy-mustard	"	Thysanocarpus sp.	Fringepod
0	Dicentra chrysantha	Golden Ear-drops		Trichostemma parishii	Mountain Bluecurls
0	Dichelostemma capitalum	Blue Dicks	6	Trapidocarpum gracile	Slender Dobie-pod
α	Dudleye sp	Dodleya	Б.	Uropeppus lindleyi	Silver Puffs
19	Emmenanthe pendulifera	Whispering Bells	"	Viola purpurea	Oak Yellow Violet
0	Eriastrum sp.	Woodly-star		AIDIR DOMANGO	Car relion ratio
12	Ericamona sp.	Goldenbush			
6	Erigeron foliosus	Leafy Daisy	, , ,	Other Flowering Plants:	
e	Eriodictyon trichocalyx	Hairy Yerba Santa	"		•
1	Eriogonum fesciculatum	Inland Ca'ifornia Sockwheat		(Sio	
1	Eriogonum sp.	Buckwheat	0	40.00 11 010 F	• •
n	Eriophyllum sp.	Golden-yarrow	- 1		
Ñ	Erodium cicuterium*	Red-stem Storkshill	- "		•
~ ,	Erysismum capitalum	Western Wa'iflower	1		
p/	Eschscholzia catilomica	California Poppy			
5	Eucrypia chrysanthemifolia	Spotted Hideseed) s		
0	Euthamia occidentalis	Western Goldentod		Dogo Itilialida en Gara Diante.	
٥,	Garrya voulchii	Caryon Si x Tassel	0	Rare Wildlife or Rare Plants:	MENUL Wash
1	Gilla sp.	Gilja	1 .	MINI >	The set
~	Gnaphalium	Cudweed	- "	TONC A LEGGE	t nest
	Guillenia tasiophylla	California Mustard	G 0	AGNU 3 USBOOT	et was
A.	Gulierrezia sarothrae	Broom Matchweed		AGHL I Homed	Board
10	Heliotropium curessaviçum	Salt Heliotrope		ABHL I Homed	LI ELEF OF
o	Hirshfeldia incana	Short-pod Mustard	, a	Acros 1 Malabial	um parishi, po
Ö	Lamium amploxicanje	Henbit .		AGDP I Delphinh	Transfer for
K,	Lasthenia gracius	Common Goldfields	7	ી જે ં "	T'
×	Layia glandulosa	While Layis	n	يَ يَجِ ا	11 /0
7	Lepidium sp.	Pepperweed		% ·	() (a)
D.	Linanthus bellus	Desert Beauty	9	1 3 (· · · · · · · · · · · · ·
c	Linanthus dichotomus	Evening Snow	7	1 8	() (a)
c	Lonicera subspicata	-	٩	12. 4	11
×	Melacothrix californica	Johnston's Honeysuckie California Dandelion	0	1 8	10
-			٥	1 7 u	^ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
۱۱ کنر	Malacotturix clevelandii	Cievetand's Malacolinix	٧	1 10	کن چ
•	Marah macrocarpus	Wild-cucumber	0	1 2/2 a	·· 5-
	Marrubium vulgare*	Horehound		1 /3	<i>15</i> _
"	Matricana matricarioidos*	Common Pineapple-weed	O	(1/3, α	
0	Mentzelia vaatchiena	Veatch's Stick-leak		14	v. 10 _
n	Microsteris gracilis	Slender Phlox	- 0	1. 75- 6	15
O	Mimulus sp.	Monkeyflower	0	W 17	٠٢ څ
	AMP MACHINE AND CONTROL OF THE CONTR	Cenall flavore Cabo Bloo Evice		v // //	
9	Nemophila menzeisii Orobanche bulbosa	Small-flower Saby Blue Eyes Chaparral Broom-rape	۰ ا	AGBL I Block Mi	g 🚹 🔐 "10. 11\L

Recorder: Mine C	ouffer.	Add'l Person:	_	Ø	Date: GPS Unit:			
Project: Concentrix So	lar Project N	//ap#: <u>{</u> _Sur	vey Sxn: _	2	QCB Protocol Survey # of 5			
TIME (24-hour)	Temp (F*):	Vind (segimex)	* CC	L _	Sky			
5lan 0900 HRS	G7°F	AMM ASS	2		clear printy overcent district shower			
7000 H82	マス・ケ	Jes -> I may			cleur polichy overcast drogle shower			
1100 Hp.5	_76°	Wan Car		$\neg \vdash$				
	76	3-79 roph		+				
<u> </u>		-5-7-113/H	_ %	—⊹…				
1300 HDS	76	<u>Z-></u> 9 mbii	_&_	$-\vdash$	clear patchy overcost drugte shower			
<u>เนองห</u> อร	7 <i>6</i> °_	<u>4×8 m₽4</u>	_ ```	\downarrow	close) parking overcost druzzle shower			
End 1500HRS	ግሪ°F	4->12 WH	- سينفر		ologi palithy overcas; chizale alrower			
Habitat On-site (circle): open soits hilltops, ridges; rock outcrops, soil crusts 'clay soile: old roads, various nectar sources								
Nymphalidae (Brushfooted Butterflies)				Cat	Total Hesperiidae (Skippers)			
	Euphydryas editha (Quino Checkerspot)				Erynnis funeralis (Funereal Duskywing)			
Euphydryas chakedona (Henne's Checkerspot)				, -	Erynnis tristis (Sad Duskywing)			
	Thessalie leanira (Wright's Checkerspot)			•	Erynnis propertius (Propertius Duskywing)			
Chlosyno californica (Calif		· ·	$\overline{}$	—	Erynnis brizo (Sleepy Duskeywing)			
Chlosyno gabbii (Gabb's C			—·		Pyrgus albescens (Checkered Skipper)			
Phyciodes mylitta (Mylitta					Hesperia Jub ਰ (Jub a Skipper)			
Junonia coenia (Common			——	7	Powes sebuleti (Sandhill Skipper)			
Vanessa annabella (West			-	١.	Megathymidae (Giant Skippers)			
Vanessa atalanta (Red Ad	lmiral)		- +-		Megathymus yuccae (Yucca Giant Skipper)			
Vanessa cerdui (Painted l	l,ady)		- 2	ا بد				
Vanossa virginiensis (Virg.	inia Lady)	· -		-	Other Butterflies:			
Nymphalis californica (Ca		shell)			PHOLISORE CATULLUS (COMMON SOOTYWHIS) !			
Danaldae (Milkweed Butte								
Danaus plexippus (Monare	c ስ)							
Daneus gilippus (Queen)					i			
Satyridae (Satyrs)								
Coenonympha californica		ornia Ronglet)						
Pieridee (Whites, Sulphurs			·	<u> </u>				
Piaris rapae (Cabbage Wi Pontia sisymbrii (Spring W		<u> </u>	 					
Pontie beckenii (Beker's W				<u>ا</u> '				
Pontie protodice (Common				⊥ . :	<u> </u>			
Anthochans sera (Sara Or								
Anthocharis cethura (Feld			- -	—				
Euchloe hyantis (Desert P		—· ··—	 }	1				
Colias eurytheme (Orange			— <u> </u> —	•				
Cohas harfordii (Harford's		·		٠				
Nathalis iolo (Dainty Sulph		·· . <u>-</u> -						
Papillonidae (Swallowtalls)		· [Notes:			
Papilio polyxones (Desert	Black Swallow	ail)	· · · · · ·		END 1530 HDS, 77°F, WIND 15-711 MPH CLEAR			
Papilio eurymedon (Pale s					13 13 13 13 13 13 13 13 13 13 13 13 13 1			
Papilio rutulus(Western Ti	ger Swallowtai	i)		•••				
Riodiniade (Metalmarks)					<u> </u>			
Apodemia mormo (Behr s			3	10				
Lycaenidae (Hairstreaks a			[<u> </u>			
Celastrina ladon (Spring A								
Loptoles marina (Marine E			\rightarrow					
Brephidium exite (Western		ტ25	_		<u> </u>			
Glaucopsyche typdamus (ainery pipe)	<	3				
Hemiargus ceraunus (Edv			— · ↓ <u>·</u>		ļ			
loaris acmon (Aomen Blue Philotes sonorensis (Sono				1	<u> </u>			
				4 .				
Callophrys augustinus (Brown Elfin)				_بَدِ				
Callophrys perplexa (Perplexing Green Hairsfreak) Strymon melinus (Gray Hairstreak)					 - · - -			
Allides helesus (Great Pur			–·∤	Pa				
	wie industroani				<u></u>			

Potential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Nemophila menzeisii

Orobancho bulbosa

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC

	Antirrhinum coulterionum	:::::		tagonica = PP
0	Amsinckia manziesii	Rancher's Fiddleneck	 Osmadenia tenetta 	Osmađenia
0	Antirrhimum coulterlanum	Coulter's Snapdragon	n Paeonia californica	California Peony
0	Anliethinum nuttallianum	Nuttail's Snapdragon	 Peciocarya sp. 	Pectocarya
o	Asclepias fascicularis	Narrow-Jeaf Milkweed	a Phacelia sp.	Phacelia
0	Bocchera sp.	Rock Cress	 Pholistoma membranaccum 	White Fiesla Flower
9	Calandrinia ciliata	Red Maids	 Plagiobathrys sp.) 	Popcornflower
O	Calochortus concalor	Golden-bowl Mariposa Lify	 Plantago patagonica 	Desert Plantain
O.	Calystegia longipes	Merning-glory	 Platystemon californicus 	Cream Cups
O	Camissonia sp.	Sun Cup	 Prunus ilicifolia 	Hofly-leaf Cherry
U	Castilleja exerta	Paintbrush	 Rafinesquia neomexicana 	Desert Chicory
0	Caulanthus heterophyllus	San Diego Jewellower .	 Ribes quercetorum 	Oak Gooseberry
0	Caulenthus simulans	Payson's Caulanthus	 Rorripe nasturtium-equelicum 	Water-cress
. ?	Ceanothus cuneatus	Buck Brush	 Rosa californica 	California Rose
٥	Ceanothus gregoii	Cup-leaf-litac	 Saltugilia australis 	Southern Gilia
. (4	Ceanothus leucodermis	Chaparral Whitethorn	o Sanacia californicus	California Butterweed
O	Cheenactis artemisiifolia	White Pincushion	 Senecio flaccidus 	Butterweed
0	Chaenactis globriuscula	Yellow Pincushion	 Sidelcea malveeffora 	Checker-bloom
LT.	Clematis sp.	Clematis	. o . Sisymbilum sp.	Tumble Muslard
۰C	Collinsia concolor	Southern Chinese Houses	 Solidago californica 	California Goldenrod
C	Cordylanthus rigidus	Dark-lip Bird's Beak	o Stachys ajugoides	Hedge-nettle
n	Coreopsis californica	California Coreopsia	 Stephanomeria sp. 	Wreathplant
, a	Corethrogyne filaginifolia	Common Sand-aster	 Stroptanthus campestris 	Southern Jewelflower
\sim	Cryptantha sp.	Cryptantha	 Stylocline gnaphalioides 	Everlesting Nest-straw
0	Cucurbité foelidissime	Calabazilla	 Tetradymia comosa 	Cotton-thorn
Ω.	Descurainia sp.	Tansy-mustard	 Thysanocarpus sp. 	Fringapod
0	Dicentra chrysantha	Golden Ear-drops	 Trichostemma parishii 	Mourtain Bluecurts
٥	Dichelostemma capitalum	Side Dicks	 Tropidocarpum grecile 	Slender Dobie-pod
.7	Dudleya sp.	Dudleya	 Urapappus lindleyi 	Silver Puffs .
0	Emmenanthe pandulifera	Whispering Bells	 Viola purpurea 	Oak Yellow Viplet
a	Eriastrum sp.	₩oolly-star	`a	
o	Ericameria sp	Goldenbush	♦	
0	Erigeron foliosus	Leafy Daisy	 Other Flowering Plants: 	
0	Erlodictyon trichocalys	Hairy Yerba Santa	· (RHUS OVATA)	SUGAR BUSH
0	Eriogonum fasciculatum	Inland California Buckwheat	0	
G	Eriogonum sp.	Buckwheal	0	
C	Eriophyllum sp.	Golden-yarrow	ъ	
0	Erodium cicutarium*	Red-stem Storksbill	ė	
6	Erysismum capitatum	Western Wallflower		
ф. 6	Erysismum capitatum Eschscholzia californica	Western Wallflower California Poppy		
6 6	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthomilolia	Western Wallflower California Poppy Spotted Hideseed	. 6 · · · · · · · · · · · · · · · · · ·	
ф. 6	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod	o o Rate Wiidlife or Rare Plants:	
0000	Erysismum capilatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Garrya vaalchii	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel	o o o Rare Wiidlife or Rare Plants: ○ (YC.WWO)	Sestern whittie
00000	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Ganya vaalchii Gilia sp.	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilia	ດ ດ o Rare Wildlife or Rare Plants: o ກາເພນາວ ໄ ດ ກາເພນາວ ລົງ	31
000000	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Ganya vaatchii Gilia sp. Gnaphalium	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilla Cudweed	。 Rare Wildlife or Rare Plants: 「Yにいいり」 「MCいいのむ」 「MC 850!	31
0000000	Erysismum capilatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Garrya vaatchii Gilia sp. Gaaphalium Guillenia laslophylla	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilla Cudweed California Mustard	。 Rare Wildlife or Rare Plants: 「たいいの) 「たいいのも) 「いこうでもこう」 「いこうでもこう」	JESTERN WHISTAIL TAKENDATOWATS
000000000	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Garrya vaatchii Gilia sp. Gnaphalium Guillenia laslophylla Gutierrezia sarothrae	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilia Cudweed California Musterd Broom Matchweed	o Urt 8403 o Urt 8201 & o Urt mmo ອາ o Bare Midlife or Bare Plants:	TARAGANAT COMATA
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000000000000	Erysismum capitatum Eschscholzia californica Eucrypta chrysanthonulolia Euthamia occidentalis Garrya vaatchii Gilia sp. Gnapholium Guillenia laslophylla Gutierrazia sarothraa Heliotropium curassavicum Hirshfeldia incana	Western Wallflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilia Cudweed California Mustard Broom Matchweed Salf Heliotrope Short-pod Mustard	。 MCCHOS IS 。 MCCHOS IS 。 MCCHOI IS Cor 。 MCBJOD 。 MCBJOD 。 MCMMOD 。 Rare Wildlife or Rare Plants:	TARAGANAT COMATA
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Small-flower Baby Blue Eyes

Chaparral Broom-rape

2016

Recorder_ KKOS Suna_Add Person;	Date: 4/25/201/ GPS Unit: 3
Project: Concentrix Solar Project Map #:/ Survey Sxn:	_/ QCB Protocol Survey # of5
TIME [24-hour) Temp (F*): Wind (avg/mex) % CC	Sky
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395 73 10,3/2070	outchy corrupt duzze shower
End 4-05 73 1/4 0	clear policity overcost disaste shower
Habitat On-site (Circle)- open soils failtops, bugos proceedings, soil crusts, o	
Total	Total
Nymphalidae (Brushfooted Butterfiles)	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspot)	Erynnis tristis (Sad Duskywing) /
Thessolia learning (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing) //
Chlosyne californica (California Patch)	Erynnis brizo (Sleepy Duskeywing) /
Chlosyrie gabbii (Gabb's Checkerspol)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitte (Mylitta Crescent)	Hesperie jubia (Jubia Skipper)
Junonia coenia (Common Buckeye) אין אין אין און 17 אין אין אוען	Polites seguleti (Sandhill Skipper)
Vanossa annabolla (West Coast Lady	Megathymidae (Giani Skippers)
Vanessa ofalanta (Red Admiral)	Mogathymus yuccae (Yucca Grant Skipper)
Vanessa cardui (Painted Lady)	
Vanesse virginiensis (Virginia Lady) Nymphalis californica (Celifornia Torloisesheli)	Other Butterflies:
Danaidae (Mitkweed Butterfiles)	- Philosoga catalus = = =
Danaus plexippus (Monarch)	_ Ochholes as vicola_
Danaus gilippus (Queen)	TH
Satyridae (Satyrs)	Mosteria ochracena
4-1711444 (MILIO)	
Coenonymphe californica (Common California Ringlet)	
Coenonymphe californica (Common California Ringlet) Pleridae (Whites, Sulphurs)	Kochosoma tulva
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artial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) "nons:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhlnum coulterianum = AC Collinsia concolar = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	-		2010/10/11	nos udmos a CV - Liputodo I	narodowco :: k.e
1:	Amsinckia menziasii	Rancher's Fiddleneck	5	Osmadenio tenella	Osmadenia
41	Antirchimum coulterianum	Coulter's Snapdragon	"		California Peony
E)	Antimhinum nuttallianum	Nuttall's Snapdragon		Paeonia californica	· · · · · · · · · · · · · · · · · · ·
13	Asclepies fascicularis	Narrow-leaf Milkweed	-	Pactocarya sp. Phacelia sp.	Pectocarya
0	Boechera sp.	Rock Cress			Phacelia
0	Celondrinio cilieta	Red Maids		Pholistonia membranaceum	White Fiesta Flower
::	Calachortus concolor	Golden-bowl Mariposa Lily	٥	Plagiobothrys sp.	Popoornflower
:1	Celystogia longipes	Morning-glory	9	Plantago patagonica	Desert Plantain
6	Camissonia sp.	Sun Cup	В	Platystemon californicus	Cream Cups
6	Castilleja oxerta	Paintbrush		Prunus ikcilolia	Holly-leaf Cherry
0	Caulantitus heterophytius	San Dego Jawelflower	, G	Rafinesquia neomexicana	Desert Chicory
0	Caulanthus simulans	Payson's Caulanthus	2	Ribus quercelorum	Oak Gooseberry
0	Ceanothus cungalus	Suck Grush	0	Rortipa nesturtium-aqueticum	Water-cress
:20	-Ceanothus greggy	Cup-leaf-blac	1 .	Rosa californica	California Rose
a	Ceanothus leucodermis	Chaparral Whitethorn	0	Saltugilia oustralis	Southern Glia
o	Chagnactis arternisiifolia	White Pincushion		Senecia californicus	Catiforn a Butterweed
0	Chaenactis glabiluscula	Yellow Pincushion	0	Senecio flaucidus	Butterweed
0	Clematis sp.	Clematis	''	Sidelcea malvaellura	Checker-bloom
o	Collinsia concolor	Southern Chinese Houses	l "	Sisymbrium sp.	Tumble Mustard
.,	Cordylanthus rigidus	Dark-lip Bird's Beak	2	Solidago californica	California Goldenrod
0	Coroopsis californica	California Coreopsis		Stachys elugoidos	Hedge-nettle
0	Corethrogyne filaginulatia	Common Sand-aster		Stephanomeria sp.	Wreathplant
	Crystantha sp.	Cryptantha	a	Streptanthus composins	Southern Jewelltower
0	Cucurbita loetidissima	Calabazilla	0	Stylocline gnaptialioides	Everlasting Nest-straw
0	Descursinin sp.	Tensy-musterd	2	Tetradymia comosa	Cotton-thorn
n	Dicentra chrysantha	Goldon Ear-drops	۰ ا	Thysonocarpus sp.	Fringepod
ų,	Dichelostemma capitatum	Blue Dicks	- 10	Trichostemma parishii	Mountain Bluecerls
ō	Dudleya sp	Dudleys	٠	Tropiducarpum gracile	Slender Dobie-pod
(3	Emmenonthe pondutiters		9	Uropappus lindlayl	Silver Puffs
0	Enastrum sp.	Whispering Bells	i n	Viole purpures	Oak Yellow Violet
	Ericamena sp.	Woolly-star Goldenbush	۰ ا		
1	Erigeron foliosus	Leafy Daisy	٩		
0	Eriodiatyon trichocetyx			Other Flowering Plants:	
0	Eriogonum Insciculatum	Hairy Yerba Senta Inland California Backwheat			
0	Еподонит вр.		- 0		
0	Eriophyllum sp.	Buckwhest	C		
سو	Erodium cicutanum	Golden-yarrow Red-stem Storkshill	Г.		
18	Erysismum capitatum		ن ا		
7)	Eschscholzia californica	Western Wallflower	٥		
7	Eucrypta chrysanthemifolia	California Poppy	4:		
41	Euthamia occidentalis	Spotted Hideseed	۰ ا		
2	Garrya veatchii	Western Goldenrod	0	Rare Wildlife or Rare Plants:	
0	Gilio sp.	, . Canyon Silk Tasset			
0	Gnaphalium	Gilia	- 6		
0		Cudweed	12		
	Guillenia lasiophylla Gulierrezia sarothrae	California Mustard			
0	Hefiotropium curassavicum	Broom Matchweed	D		
	Hirshleldia incana	Salt Heliotrope	- 2		
2	I marking an about a second	Short-pod Mustard	n		
- 	Laurania marrilla	Henbit	1 0		
4	Legia glandulose	Common Goldfields	<0		
1	Lopidium sp.	White Layin	0		
	Linenthus bellus	Pepperweed	٥		•
Ü	Emanthus dicholomus	Desert Beauty			
0	Lonicera subspicata	Evening Snow	ı,		
.,	Malacothrix californica	Johnston's Honeysuckle	0	·	
υ.	Malacothrix carromica Malacothrix clevelaydii	Catifornia Dandelion	٥		
6	магасовніх сісчавандії Мигаћ тасгосатриз	Cleveland's Mafacothrix	n		
0		Wild-ducumber	a		
::	Marrubium vulgare*	Horehound	- 0		
.: •	Matricariu matricanoidos*	Common Pineapple-weed	٥		
	Mentzelia voetchiana Microstoria amelia	Veatch's Stick-leak	٥		
9	Microsteris gracilis	Siender Phlox	0		
0	Mintulus sp. Nemantila memoirii	Monkeyflower	0		e

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nemophila menzaisii

Orobanche bulbosa

Recorder: Mike C	<u>०७६१६१२</u>	Add'l Person:		0	Dah	e: <u>බර F</u>	<u> મુજાદે</u>	Gi	PS Unit :	_11
Project: Concentrix So	dar Project_A	/lap #:Su	vey Sx	n:ع	OCB Pro	tocol Sur	vey#	5	of	5
TME (24-hour)	Temp (F*):	Wind (arg/max)	***	oc .			Sky			
SER CACCHISS	ol°F)	15-21 MP4	نز	8	208	pakiny	evercest	drizzte	shower	
1000425	. 68°F	%->5		·	- See	parichy	evercasi	drizzt≢	shower	
	74°F	8-23			· · · · · ·					
TIOCHEZ			- 2			petchy	DVBFCBBB	driggie	apanes,	_ .
12000468	73°F	Ø-> 7	0	· · · · · · · · · · · · · · · · · · ·	deb	patchy	overcest	diagrap	shower	
					che der	petchy	over-cost	drzzie	shower	
					cion	patchy	ever case	ORIZE	shower	
End			i		clear	parietry	overcesi	cinzg's	shower	
									H K/=W	
Habitat On-site (circle): open soils, hillogar ridges, rock outcrops; soil crosts, clay soils, ald roads, various nectar sources							Total			
Nymphaildae (Brushfooter	d Butterfiles)	0 2 V V V		7000	Hesperiidae (Ski	opera)	· · · · · · · · · · · · · · · · · · ·	V 2	· ·.	· 100
Euphydryas editha (Quino			-		Erynnis funerall:					`
Euphydryas chalcadona (I		erspot)		i i	Erynnis tristis (S					
Thesselia leanira (Wright)				_ 1	Erynnis properti			wina)		
Chiosyne catifornice (Calif			-		Erynnis brizo (S	<u> </u>		(9)		-
Chlosyne gabbii (Gabb's C			-		Pyrgus albescer			ur'i		-
Phyciodes mylitta (Mylitta			·		Heaperie Jub 3 (••,		
Junonia coenia (Common				5.	Polites sabuleti					
Vanessa ennabella (West				97	Megathymidae (C					-
Vanessa etalanta (Red Ad					Megathymus yu			dena/		\rightarrow
Vanessa cardui (Painted					. ineganymas yu	(100	CO GIONIC OF	,,bbe.)		-
Vanessa virginiensis (Virg					Other Butterflies			· · ·		\rightarrow
Nymphalis californice (Ca		eshelli			 - 					
Danaidae (Milkweed Butte			 		PHOLISORR (CATULL	12 (Com	пон Бос	TTY WING	}
Danaus plexippus (Monar		<u> </u>			1					
Dansus gilippus (Queen)	un,				-					
Satyridae (Satyra)	·	: -			-					
Coenonymona celifornica			' . ' .		 		_			-
Pieridae (Whites, Sulphun				1						- }
Pieris rapae (Cabbage Wi			• •		 					-
Pontia sisymbrii (Spring V					 					
Pontie beckeni (Beker's W				,						-
Pontia protodice (Commo					-					$\overline{}$
Anthocheria sare (Sara O			,		 .					-
Anthocharis celhura (Feld		,			 					
Euchice hyantis (Desert P				1	+					-
Colias eurytheme (Orange		 -								-
Colias harfordii (Harford's			-							-
Nathalis iole (Dainty Sulph	<u> </u>									
Papilionidae (Swallowtails					Notes:					-
Papilio polyxanes (Desert					11,21227	· .			_ : .	```
Papilio eurymedon (Pale s		14-1)		-						
Papilio rutulus(Western Ti		1 }			1					t
Riodiniade (Metalmarks)			.· ·		 					-
Apodemia mormo (Bahr's				145	· †					$\overline{}$
Lycaenidae (Hairetreaks a				<u> </u>	· · · · · · · · · · · · · · · · · · ·					$\overline{}$
Celestrina ledon (Spring A										$\overline{}$
Leptotes marina (Marine 6						 -		•		$\overline{}$
Brephidium exile (Western					·· - ·					$\overline{}$
Glaucopsyche lygdamus (··········	-		-
Hemiargus caraunus (Edv					 		-			$\overline{}$
Icaria acmon (Acmon Blue				١	 					-
Philales sonarensis (Sono		······································		 	 	 -				-
Callophrys augustinus (Br			-		 					
Callophry's perplexa (Perp		laustreak\		<u> </u>	 					
Strymon melinus (Gray H:										$\overline{}$
Atlides halesus (Great Pu		-			 			·		$\overline{}$
rannous forest La	- pro , real retire BN				 	·	 -			$\overline{}$
i .					1					

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Instructions;

▶ Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

► PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC__ Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	The state of the s	- AG COMBIO CONCORDS - CC
	A	-
0	Amsinckia menziesii	Rancher's Fiddleneck
٥	Antirchimum coulterianum	Coulter's Snapdragon
0	Antimhinum nuttellienum	Nuttell's Snapdragon
0	Asciepias fascicularis	Namow-leaf Milkweed
٥	Boechera sp.	Rock Gress
0	Calandrinia ciliata	Red Maids
Ď	Calechortus concelor	Golden-bowl Mariposa Lily
٧.	Calystagia longipes	Morning-glory
D	Camissonia sp.	Sun Cup
Ď	Castilieja exerta	Paintbrush
O	Caulanthus helerophyllus	San Diego Jewelflower
۰.	Ceutanthus simulens	Payson's Caulanthus
	Ceanothus cuneatus	Buck Brush
0	Ceanothus greggii	Cup-leaf-Nac
٥	Ceanothus levoodermis	Chaparral Whitethorn
٥	Choenactis artemisidalia	White Pincushion
▫.	Chaenactis glabriuscula	Yellow Pincushion
ù	Clemetis sp.	Clematis
٥	Collinsia concolor	Southern Chinese Houses
٥.	Cordylanthus rigidus	Dark-tip Bird's Beak
ď	Coreopsis californica	California Coreopsia
o	Corethyogyne filaginitolia	Common Sand-ester
	Cryptaniha so	Cryptantha
٥.	Cucurbita foetidissima	Celebezilla
. 0	Descuratrila ap.	Tansy-musterd
a	Dicentra choyaentha	Golden Ear-drops
0	Dichelostemme capitalum	Blue Dicks
٩.	Dudfeya sp.	Dudleya
Φ	Emmenanthe pendulifera	Whispering Belle
٥.	Елаарыл эр.	Woolly-star
O	Ericameria sp.	Goldenbush
.0	Erigeron foliosus	Leafy Daisy
ο,	Eriodictyon trichocalyx	Harry Yerbe Samte
٥.	Eriogonum fasciculatum	Inland Ca fornia Buckwheat
o	Edogonum sp.	Buckwheat ::
Θ.	Епорћућит вр.	Golden-yarrow
ø.	Erodium cicularium*	Red-stem Stortsbill
. •	Eryeismum çəpilətum	Western Wallflower
ο.	Eschsoholtia californica	California Poppy
o	Eucrypta chrysenthemifolia	Spotted Hideseed
P,	Euthamia occidentelis	Western Coldenrod
n.	Gerrye vestchli	Canyon Silk Tassel
Θ.	Gilia sp.	Gilla
٥	Gnaphalium	Cudweed
o	Guillenia lasiophytia	California Mustard
	Gulierrezia sarolhrae	Broom Malchweed
0	Heliolropium curassavicum	Salt Heliotropa
0	Hirehfeldie incene	Short-pod Mustard
0	Lemium amplexicaule	Henbit
9 .	t şahəniə çrəcilis	Common Goldfields
9	Layie glandulosa	White Layle
ð'	· Lepidimii sp.	Pepperweed
0	Linenthus bellus :	Desert Beauty
o	Linanthus dicholomus	Evening Snow
0	Lonicera subspicate	Johnston's Honeysuckie
a	Malacothrix californica	California Dandelion
0	Melecothrix clevelandii	Cleveland's Melacothrix
0	Mereh macrocarpus	Wild-cucumber
0	Menubium vulgare*	Horehound
0	Metriceria metricarioides*	Common Pineapple-weed
`a '	Mentzella veetchiene	Vealch's Stick-leak
0	Microsteris grecilis	Slender Phlox
ò	Mimulus sp.	Monkeyflower
0	Nemophila menzeisii	Small-flower Baby Situe Eyes
0	Orobanche bulbosa	Chapatral Broom-rape

	Osmadenia tenella	Osmađenia
	Paeonia californica	California Peony
	Peciocarya sp.	Pectocarya
•	Phacelia sp.	Phacella .
	Pholistome membranaceum	White Fiesla Flower
-	Plagfobothrys sp.	Popcornflower
	Plantago patagonica	Desert Plantain
	Pletystemon californicus	Cream Cups
	Prunus llicifolia	Holly leaf Cherry
	Rafinesquia neomexicana	Desert Chicory
	Ribes quercetorum	Oak Gooseberry
	Rompe nesturtium-equaticum	Water-cress
	Rose celifornice	California Rose
	Sattugike austrelia	Southern Glica
	Senecio californicus	California Butterweed
	Senecio fleccidus	Butterweed
	Sidalces matvaeffors	Checker-bloom
	Sitymbrium sp.	Tumble Mustard
	Salktago californica	California Goldenrod
	Stactiya ajugoides	Hedge-neitte
	Stephenomenie sp.	Wreathplant
	Shaplarihus campestris	Southern Jewelflower:
	Stylocline gnaphalloides	Everlasting Neat-straw
	Tetradymie comosa	Cofton-thorn
	Thysanocarpus sp.	Fringapod
	Trichosteruma parishti	Mountain Bluecurts
	Tropidocarpum gracile	Slender Doble-pod
	Uropeppus lindleyl	Silver Puffs
	Viola purpurea	Oak Yelkow Violet
	Other Eleating Plants:	
	RHUS OVATA	SUGAR BUSH
	200	

MCBZOS

MCBZOS

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MCBZOS

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MCBZOS

Recorder: Anthony K. Goldiniz Add'l Person: No	no Date: 36 APL 2011 GPS Unit: 2
Project: Concentrix Solar Project Map #: 2 Survey Sx	n: (@vv0 m + A)vc QCB Protocol Survey # of 5
	cc Sky
start 1330 76 21/80 C	· — · — · — · — · — · — · — · — · — · —
() () () () () () () () () ()	
16 1977	
- - · - · -	clitar parking <u>overcast</u> duzzio <u>altrover</u>
	click partly distribed distribution showns
End 1450 76 19178 0	Zidor) policity oversiani dileria strovine
Habitat On site (circle); ppen soils, miltops, pages rock outcrobs, soil	
	Total
Nymphalidae (Brushfooted Butterflies)	Hesperildae (Skippors)
Fuphyoryas colifie (Quino Checkerspat)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcodona (Henne's Checkerspot)	Erynnis tristis (Sad Duskywng)
Thesselia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erymnis brizo (Sleepy Duskeywing)
Chlosyna gabbii (Gabb's Checkerspot) Phyciodes mylitta (Mylitta Crescent)	Pyrgus elbescens (Checkered Skipper)
Junonia coonia (Common Buckeye)	Hesperie jubia (Jubia Skipper)
Vanessa amabalia (West Coast Lady	Politos sabuleti (Sandhill Skipper) Megathymidae (Glant Skippers)
Vanessa atalanta (Red Admiral)	Megathymus yuccae (Yucca G.ant Skipper)
Vanessa cardai (Painted Lady)	inagalitymas yuccaa Grant Skippery
Vanessa virginionsis (Virginia Lady)	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	·
Denaldae (Milkweed Butterflies)	
Danaus plexippus (Monarch)	
Danaus gilippus (Queen)	
Satyridae (Satyrs)	
Coencrympha colifornica (Common California Ringlet)	· · · ·
Pleridae (Whites, Sulphurs)	· - · · · · · · · · · · · · · · · · · ·
Picris rapae (Cabbage White)	
Pontia sisymbrii (Spring White)	
Pontia beckerii (Baker's White)	
Pontia protodice (Common White)	
Anthochans sara (Sara Orangetip)	·
Anthocharis cethura (Felder's Clangetip)	—· -— ——— —— — — — — — — — — — — — — — —
Euchloe hysniis (Desert Pearly Marble) Colies eurytheme (Orange Sulphur)	<u></u>
Collas harfordii (Harford's Sulphur)	
Nathalis iolo (Dainty Sulphur)	·· ·· · · · ·
Papillonidae (Swaliowtails)	Notos:
Papilio polyxenes (Desert Black Swallowtail)	
Papilio eurymedon (Palo swallowfail)	WEST, BUSH, RITHH, WISP, LFGO
Papilio rutulus(Western Tiger Swallowtail)	
Riodiniade (Metalmarks)	
Apodemia mormo (Behr's Metalmark)	The western force to and, substately trans
Lycaenidae (Hairstreaks and Slues)	
Celastrina ladon (Spring Azure)	
Leptotes marine (Marine Blue)	
Brephidium exile (Western Pygmy Blue)	·_ <u> </u>
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	
Hemiargus ceraunus (Edward's Blue)	
learin aemon (Aemon Blue) Philotes sonoransis (Sonoran Blue)	
Callophrys augustinus (Srown Effin)	
Callophrys perplexa (Perploxing Green Hairstreak)	
Strymon melinus (Gray Hairstreak)	
Allidos halasus (Great Purpte Harrstreak)	
	···- ·-· · · · · · · · · · · · · · · ·

ral Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

ons:

Mirnulus sp.

Nemophila menzcisii

Orohenche hulbosa

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC | Callinsia cancalor = CC | Cardylanthus rigidus = CR | Plantaga patagonica = PP

	Amsinckia menziesii	Rancher's Fiddleneck	1 70	Osmader
٠,	Antirrhimum coulterlanum	Coufter's Snapdragon	0	Paeonia e
0	Antirolinum nuttellienum	Nuttait's Snapdragon	0	Pectocary
- 0	Asclopias tascicularis	Narrow-Isaf Milkweed	\ \ <u>\</u>	-
٠,	Boechera sp.	Rock Cress	٥	Pholiston
_	Calandrinia ciliata	Red Maids	200	Plagfobol
, "	Calochortus concolor	Golden-bowl Mariposa Lily	r:	Plantago
1		Morning-glory	~~~	Platyston
<u>\</u> 3	Comissonia sp.	Sun Cup	٧	Pronus di
د ماد	Castilleja exerta Caulanthus helerophyllus	Paintbrush	n	Rafinesqu
0	Caulanthus simulans	San Diego Jewelflower Payson's Cautenthus	۰	Ribes que
ő	Ceanothus cuneatus	Buck Brush	, ,	Rompa n
9	Ceanothus gruggii	Cup-leaf-lilac	ر ا	Rosa cali Politicito
0	Ceanothus loucodermis	Chaparral Whitelhorn	0	Saltugika Senecio d
o	Chaenactis artemisulotia	White Pincushion	,,	Senecio I
٥	Chaenactis glebriuscula	Yellow Pincushion	, ,	Sidalces :
*	Clematis sp.	Clematis	W	Siaymbrio
Ω	Collinsia concutor	Southern Chinese Houses	700	Solidago
0	Cordylanthus rigidus	Dark-tip Bird's Beak	^`	Stechys a
o	Coreopsis californica	California Coreopsis	0	Stephano
O.	Corethrogyne filaginifolia	Common Sand-aster	- 201	Streplanti
	Cryptantha sp.	Cryptantha	0	Styloctine
С	Cucurbita foetidissima	Calabazilla	0	Tetradym
U	Descurainia sp.	Tansy-raustard	c	Thysanco
0	Dicentra chrysantha Dichelostomma capitatum	Golden Ear-drops		Trichoslei
16	Dudleya sp.	Blue Dicks	u u	Tropydoca
f:	Emmenanthe pendulifora	Dudleys Whispering Bells	^	Оторарр и
4:	Eriastrum sp.	Wootly-star	9	Viola purp
3	Ericameria sp.	Goldenbush	0	
5	Erigeron foliosus	Leafy Daisy	, "	Other Flo
O	Erlodictyon trichocalyx	Hairy Yerba Senta	, ,	Office Pic
7	Eriogonum fasciculatum	Inland California Buckwheat		
1	Eriogonum sp.	Buckwheat		
0	Eriophyilum sp.	Golden-yarrow	٥	
o	Erodium cicularium*	Red-stern Storksbill	0	
-C	Erysismum capitalum	Western Wallflower	٥	
	Eschscholzia californica	California Poppy	0	
О	Eucrypta chrysanthemitolia	Spotted Hideseed	0	
	Euttramia occidentalis	Western Goldenrod	- 1	Rare Wild
V.	Garrya vealchii Gilia sp.	Canyon Silk Tassel	٥	A
. 0	она эр. Спорванин	Gilia Cadusand	۰	AGU
Li-	Guillenia laslophylla	Cudweed California Mustard	۰	
×	Guliorrazia sarothrae	Broom Matchweed	l.	AE U
P	Heliotroplum cyrassavicum	Satt Heliotrope		
0	Hirshfeldia incana	Short-ped Mustard	0 0	MAN
7	Lamium amplexicaule	Henbit		AGN AGN
*	Lasthenia gracilis	Common Goldfields	,	
0	Layia glandulosa .	White Layla		400
7	Lepidium sp.	Pepperweed		1425 0
No.	Linanthus belius	Desert Beauty	::	
2	Linanthus dichatomus	Evening Snow		
٥.	Lonicam subspicata	Johnston's Honeysuckle	۰	
NQ.	Malacothrix californica	California Dandelion	0	
٠,	Mulucottrix elevelandri	Cleveland's Malacothrix	- 9	
Max	Marah macrocarpus	Wild-cucumber	- 01	
0	Marrublum vulgare*	Harehound	v	
0	Malricaria matricarioides* Manizelia vealchiana	Common Pineapp)a-weed	٥	
0	Microstoris gracilis	Veatch's Stick-leak Siender Phiox		
**	and colored greening	Orender Fallox	0	

Mankeyflower

Small-flower Baby Blue Eyes Chaparral Broom-rape

\sim	Osmadenia tonella	Osm ade nia
$^{\circ}$	Paeonia californica	California Peony
o	Pectodarya sp.	Pectocarya
•	Phacetia sp.	Phacetia
o	Pholistoma membranaceum	White Fiesta Flower
`ጉ~	Plagfobothrys sp.	Popcornflower
r;	Plantago patagonica	Dosort Plantain
e.	Platystomon colifornicus	Cream Cups
U	Primus ilicifolia	Holly-leaf Cherry
n	Refinesquia neomexicana	Desert Chicory
U	Ribes quercetarum	Oak Goosebarry
п	Rompa nastudium-aqualicum	Water-cress
9	Rosa californica	California Rose
o	Saltugika australis	Southern Cilia
<:	Senecio californicus	California Butterweed
o.	Senecio flac ci dus	Butterweed
၁	Sidalcea mulvaettora	Checker-bloom
ò	Siaymbrium sp.	Tumble Mustard
١	Solidago californica	California Goldenrod
G.	Stechys ajugoides	Hedge-netfle
e.	Stephanomeria sp	Wreathplant
М	Streplanthus campesiris	Southern Jewelflower
Ċ.	Stylocline gnaphalioides	Everlasting Nest-straw
0	Tetradymia comosa	Catton-thorn
c	Thysanocerpus sp.	Fringepod
C.	Trichoslemma parishii	Mountain Bluecuris
G	Тторіфосатриті дписіїв	Stender Dobio-pod
0	Uropappus lindleyi	Silver Puffs
ij.	Viola purpurea	Oak Yellow Violet
0		
o		
0	Other Flowering Plants:	
o.		

Rare Wildille or Rare Plants:

AGUB I Linauthus bellus popes

AGUB 2 11 11 pupels

AGUB I Wildlingt Most

AGUB I Delphinium purishi fepe 2

Recorder: Antonetle Gutterrez Add'l Person: W	cre.	Date: 26 ATROLL GPS Unit : G	<u>L</u>
Project: Concentrix Solar Project Map #: 5 Survey S	xn: Dog	entiny QCB Protocol Survey # 5 of s	5
	ce	5ty	
43 18410 0			_
			— ·
1100 _ 7)	$- \rightarrow$	polichy overcast druge strower	_
1200 75 0/50 D	\rightarrow	Close) saidily distribute distributes	_
1315 78 91/36 0	!_	chosi polithy overtast overthe shower	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		clear palichy overeget dazzle shewer	
	—)-		
	— +		\dashv
End -	<u> </u>	clear priliby overtast dire/a shower	
<u>Habitat On-site (circle): open soils, filltops) ridges, (ock outcrops, so</u>		lay soils of roads, various nectar sources	_ .
-	Total \	The state of the s	Total
Nymohalidae (Brushfooted Butterflies)	—	Heapertidae (Skippers)	
Euphydryas editha (Quino Checkerspot)	↓ —	Erynnis funcralis (Funereal Duskywing)	
Euphydryas chalcedona (Henne's Checkerspot)	↓	Erynnis tristis (Sad Duskywing)	- ——
Thessalia leanira (Wright's Checkerspot)	↓ -	Erynnis propertius (Propertius Duskywing)	
Chlosyne californica (California Patch)	l <u> </u>	Erynnis brizo (Slaepy Duskeywing)	
Chiosyrre gobbii (Gabb's Chackerspot)	—·	Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitta (Mylitta Crescent)	، ما	Hespona jubia (Jubia Skipper)	1
Junonia coenia (Common Buckeye)	<u> ~</u>	Politos sabuleti (Sandhill Skipper)	
Vanessa ennabella (West Coast Lady		Megethymidae (Glant Skippers)	
Vanessa atalanta (Red Admiral)		Megethymus yuccae (Yucca Giant Skipper)	
Vanessa cardui (Painted Lady)	├ —	Other Butterflies:	
Venesse virginiensis (Virginia Lady)		1 I	
Nymphalis californica (California Tortoiseshell)		Ueston tal blue in	V —
Danaldae (Milkweed Butterflies)		500ty dusky wing 11	α.
Danaus plexippus (Monarch)		<u> </u>	
Danaus glippus (Queen) Satyridae (Satyrs)			
Coenonympha californica (Common California Ringlet)			
Pleridae (Whites, Sulphurs)	┥ ·	 - 	
Pieris rapae (Cabbage White)	-	·	
Pontia sisymbii (Spring White)		·· ·	—·
Pontia backeni (Beker's White)	<u>,</u>		
Pontia protodice (Common White)	ተ ኣ '	·- · · · · · · · · · · · · · · · · · ·	
Anthocharis sara (Sara Orangetlp)	[ર.		
Anthocharis cethura (Felder's Orangetip)	├ `	 	
Euchloe hyentis (Desert Pearly Marble)		· · · · ·	
Colles eurythome (Orange Sulphur)		 	
Collas tranfordii (Harford's Sulphur)	-	 	
Nathalis iole (Dainty Sulphur)	 		
Papillonidae (Swallowtalls)	 	Notes:	
Papilio polyxenes (Desert Black Swallowtail)	l —	WEST, ATTL, CARE, CORA, RITHAY, HOLAY	
Papilio eurymedon (Pale swal owtail)	 	CAGO, TUNU, LEGO, NOMO, WEME, ENT	~ · —
Papilio rutulus(Western Tiger Swallowtail)	a .	BUD & LATH COMU, WEST	
Riodiniada (Metalmarks)	36	GOSHOP & ARST WITH Q NESTINGS A	
Apademia mormo (Behr's Metalmark)	6.	IN Strub onte	-
Lycaenidae (Heirsfreeks and Blues)	V	Weekern whopkish, whoten fewel most,	
Celastrina ladon (Spring Azure)	-	Side blotch 1 2000	
Leptotes marina (Marine Blue)	-		
Srephidium exile (Western Pygmy Blue)		Cotton to lead rolph +	
Glaucopsyche fygdamus (Southern Blue/Silvery blue)		Ca ground swine	
Hemiergus cerounus (Edward's Blue)		well willow	
Icariu nomon (Admon Blue) [][[[4]		
Philates sanarensis (Sonoran Blue)		† — <u> </u>	_
Callophrys augustinus (Brown Etfin)		_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _	
Callophrys perplexa (Perplexing Green Hairstreak)	[
Strymon molinus (Gray Hairstreak)	[
Allides halesus (Great Purple Haustreak)	T —	F	
Maloes Malesus (Great Furple Malistreek)			

untial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulovard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail. PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patogonica = PP

Amsinckia monziosii Rancher's Fiddleneck Antirrhimum coulterianum Coulter's Snapdragon Antirrhinum nuttallianum Nuttall's Snapdragon Asclapins fascicularis Narrow-feat Milkweed Boochers sp. Rock Cress Calendrinia ciliata Red Maids Calochortus concolor Golden-bowl Mariposa Lily Calystegra tongines: Morning-glary Cernissonia sp. Sun Cup Castilleja exerta Paintbrush Caulanthus heterophylius San Diego Jewelflower Coulanthus simulans Payson's Cauranthus Ceanothus curcetus Buck Brush Ceanothus greggii Cup-leaf-filaci Ceanothus leucodermis Chaparral Whitethorn Cheenactis artemisiitolia White Pincushion Chaonactis glabriuscula Yellow Pincustrion Clematis sp Clematis Collinsia concolor Southern Chinese Houses Cordylanthus rigidus Dark-lip Bird's Beak Corcopsis colifornica California Coreopsis Corethrogyne filaginifolia Common Sand-aster Cryptantha sp. Cryptantha. Cucurhita loeligissima. Calabazilla 94 Descurainta sp. Tensy-mustard Dicentra chrysantha Golden Far-drops Dichelosternma capitetum **Glue Dicks** Dudleya sp. Dudfeya Emmenantho pendulifera Whispering Belfs Eriostrum sp Woody-star Ericameria sp. Goldenbush Erigeron foliosus Leafy Daisy Eriodictyon trictiocator Heiry Yerba Santa Eriogonum fasciculatum Inland California Buckwheat Eriogonum sp. Buckwheat Erionhyllum so. Golden-verrow Erodium c(cutarium* Red-stem Storksbill Erysismum capitatum Western Wallflower Eschscholzia californica California Poppy Eucrypta chrysanthemifolia Spotled Hidesead Euthamia occidentalis Western Goldenrod Gorrya veatchii Canyon Silk Tasset Gillia so. Gilia Gnaphalium Cudwead Gullienia tesiophytte Celifornia Mustard Gutierrezia sarothrae Broom Malchweed Hellotropium curassavicum Salt Heliotrope Hirshleidia incena Short-god Mustard Lamitim amploxicatile Henbit Lasthenia gracitis Common Goldfields Layia glandulosa White Layla Lepidrum sp. Pepparweed Linanthus bellus Desert Boauty Linanthus dichotomus Evening Snow Lonicara subspicata Johnston's Honeysuckie Malacothrix californica California Dandelion Malacollirix elevolondii Cleveland's Malacothrix Marah macrocarpus Wild-cucumber Morrobium vulgare* **Horehound** Matricana metricarioides* Common Pinnapple-weed Mentzelia veatchiana Veatch's Stick-leak Microsteris gracitis Stender Phiox Mimulus sp.

Monkeyillower

Small-Nower Baby Blue Eyes

Chaparral Broom-rape

Nemophila menzaisii

Orobanche bulbosa

Osmadenia tenella Osmaden/a Paeonia californica California Peony Pediocarya sp. Pedocarya Phacelia sp. Phacelia Phohstome membraneceum White Fiesta Flower Plagiobothrys sp. Popcomflower: Plantago palagonica: Desert Plantain Platystemon californicus Cream Cups Prunus llicifolia Holly-leaf Cherry Rafinosquia neomexicana Desert Chicory Ribes quercelorum Oak Gooseberry Rompa nasturtium-aquaticum Water-cress Rosu californica California Rose o Saltugilia austratis Southern Gillia 71 Senecio californicus California Butterweed o Senecio flaccidus **Bultcrweed** ċ. Sidalcoa malvaoflora Checkor-bloom Siaymbrium ep. Turnible Musterd Solidago californica California Goldenrod ø Stachys ajugoides Hedge-nettle Stephanomeria sp. Wreathplant ٥ Streptanthus campestris Southern Jewerflower a Stylocline gnaphalioides Everlasting Nest-straw o Tetradymia comosa Cotton-thom Thysanocamus sp. Fringepod Trichostemma parishii Mountain Bluecurls Tropidaearpum gracilo Slender Dobie-pod Uropuppus findleyi o Silver Puffs Ö Viole purpure a Oak Yellow Violet 0 o 6 Other Flowering Plants:

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Rare Wildlife or Rare Plants: AGWW ! western whip his pair Hour homed larks ABUT I wester white I ABUT I begger head shrike Nest-

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Nymphalis californica (C		1 _		- Planejus lup Philosom ex	ini		1
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Preris rapae (Cabbago Vi		<u> </u>	l —	Stylypoda c Schula an	zahalica 11		
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Pontia bookeni (Beker's V			<u> </u>				
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actial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below.

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago potagonica = PP

	<u>Antirrhinum coulterianum</u>	= AC <u>Collins</u> ia c <u>oncolo</u> r = 0
77	Amsinckia monziosil	Rancher's Fiddleneck
0	Antirrhimum coultorianum	Coulter's Snapdragon
0	Antirchinum nuttellianum	Nuttall's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
- 6	Boochern sp.	Rock Cress
٥	Calandrinia ciliata	Red Maids
0	Caloctrortus concelor	Golden-bowl Mariposa Lily
-0	Calystegia longipes	Moming-glory
O	Camissonia sp.	Sun Cup
9	Castilleja exerta	Paintbrush
Q	Caulanthus heterophyllus	San Diego Jewelflower
O	Caulotthus simulans	Payson's Caylanthus
0	Gednothys curvatus	Suck Brush
$-\nu$	Coariothus groggii 3. (Cup-leaf-litac
1:	Ceanothus leucodermis	Cheparral Whitethorn
:•	Chaenactis artemisiifolia	White Pincushion
0	Chaennotis glabduscula	Yellow Pincushion
0	Clematis sp.	Clematis
P	Collinsia concolor	Southern Chinese Houses
C	Cordylanthus rigidus	Dark-fip Bird's Beak
0	Coreopsis californica	California Coreopsis
0	Corethrogyne filogynifolia	Common Sand-aster
سننا	Cryplunthe sp. r. w 3, 6	Cryptantha
n .	Cucurbita foetidissima	Calabaz/lla
O	Descurainia sp.	Tansy-musterd
9	Dicentra chrysantha	Golden Ear-drops
0	Dicholosternma capitatum	Brue Dicks
0	Oudleya sp.	Ducleya
۰	Emmananthe pendulifiara	Whispering Bells
· ·	Egastrum sp.	Woolly-star
	Ericamonia sp. Ave. 3, 6	Goldenbush
9	Erigeron foliosus	Leafy Daisy
0	Eriodictyon trichocalyx Eriogonum fasciculatum	Halry Yerbe Santa
,	Eriogonum rasceptatum Eriogonum sp.	Inland California Buckwheat
Ü	Eriophyllum sp.	Buckwheat Saldan warne
Ö	Erodium ciculanum*	Golden-yarrow Red-stem Storkshill
n	Erysismum capitatum	Western Wallfower
œ.	Eschschotzia californica	
0	Eucrypia chrysanthemitola	California Poppy Spotted Hideseed
٥	Euthamia occidentalis	Western Goldenrod
c	Garrye veelchii	Canyon Silk Tassel
o	Gilia sp.	Guia
L:	Gnaphalium	Cudweed
44	Guillenia lustophylle	California Mustard
o	Gulierrezia serothrae	Sroom Matchweed
0	Heliotropium curassavicum	Salt Heliotrope
ō.	Hirshfeldia incana	Short-pod Mustard
0	த்ளர்சா amplexicade	Henbit
9	Lasthonia gracilis 3, 6	Common Goldfields
2	Layin glandulosa 🚙 🤰	White Layia
С	Lapidium sp.	Pepperweed
o	Linantirus bellus	Desert Beauty
li	Linanthus dichotomus	Evening Snow
٥	Lonidera subspicata	Johnston's Honeysuckie
n	Malacothrix californica	Colifornia Dandetlon
¢)	Melecothrix clevelandii	Cleveland's Malacothrix
O	Marah macrocarpus	Wild-cucumber
Ω	Marrubium vulgare*	Horehound
0	Matricaria matricarioides*	Common Pineapple-weed
O	Mentzelia vealchiana	Veatch's Stick-leak
0	Microsteris gracilis	Slander Phlox
U	Minulus sp.	Monkeyflower
Α	Memorabile municalisti	Constitution of the contract o

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nemophila munzeisii

Orobanche bulbosa

0	Osmadenia tenella	Osmađenia
c	Paeonia celifornica	California Peony
4	Pjectocaryo sp.	Pediocarya
v	Phocelia sp. 3	Phacella
0	Pholistoma membranaceum	White Fiesta Flower
o	Plagrobothrys sp.	Popournflower
0	Plantago patagonica	Desert Plantain
0	Pletystemon colifornicus	Cream Cups
\boldsymbol{c}	Prunus ilicitolia	Holly-leaf Cherry
U	Rafinesquia neomexicana	Desert Chicory
0	Ribes quercetorum	Oak Gooseberry
٥	Rompa nasturtium equaticum	Water-cress
o	Rosa californica	California Rose
o	Saltupilia australis	Southern Gilia
e.	Senecio californicus	California Sutterweed
0	Senecia fleccidus	Buiterwood
a	Sidulcea malvaeflora	Checker-bloom
n	Sisymbrium sp.	Tumble Mustard
ō.	Solidago colifornica	California Goldenrod
Ú	Stachys ajugoides	Hedge-nettle
0	Stopherionierta sp.	Wreathplant
o	Streptanthus campestris	Southern Jewelllower
t:	Stylacline gnaphalioides	Everlasting Nest-straw
٥	Tulradymia comosa	Cotton-thorn
0	Thysanocurpus sp.	Fringepod
!?	Trichostomma parishii	Mountain Bluecurts
o	Tropidocarpum gracile	Stander Dobie-pod
o	Uropappus lindleyi	S Iver Puffs
0	Viota purpuroa	Oak Yellow Violet
o.	Albas ovata	16
৩	204	7 -
0	Other Flowering Plants;	
В		

Rare Wildlife or Rare Plants:

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/ 4号 4c4 ニュローラ。 Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet

Recorder / HOward Add'l Person:	2	Date: 4/27/2611 GPS Unit : 1	_
Project: Concentrix Solar Project Map #: Z-Survey 5	Sxn:	Z QCB Protocol Survey # of	<u>5</u>
TMAE (24-hour) Temp (F'): Vfind (arg/max)	A CC	5ky	
Star 8 34 63 -46/3 1:5/8	0	(DES) panchy overcust (nizze shower	
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11/5 75 5/12			
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215 72 6/9	<i>c</i> 3	proceding continued direction stressor	
		clear patchy oresicnal doysto shower	
300 1 40 1.8/5		rulene patchy overcasi docade shapen	
End 4 W 72 01/4	•	Cop patchy unercost crizzle shower	
Habitat On-site (circle): open so is, hilltops, ridges, rock outcrops, s	cil crusts, c Total		Total
Nymphalidae (Brushfooted Butterfiles)	1 .00.	Hesperiidae (Skippers)	
Euphydryas edilha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)	
Euphydryas chakedona (Henne's Chackerspot)	 	Erynnis tristis (Sad Duskywing) (/	2
Thessalia leanira (Wright's Checkerspot)	+-	Erynnis propertius (Proportius Duskywing)	~
Chlosyna californica (California Patch)		Erynnis brizo (Sleepy Duskeywing)	<u>;</u>
Chłosyna gabbii (Gabb's Checkerspot) /	† <i>,</i> —	Pyrgus albescens (Checkered Skipper)	-
Phyciodes mylitta (Mylitta Crescent)	 	Hesperia jubia (Jubia Skipper) //	2.
Junonia coenia (Common Buckeye) 144-7/	8	Polites sebuleti (Sanchill Skipper)	4-1
Vanessa annabelia (West Coast Lady	1. *	Megathymidae (Giant Skippers)	 !
Vanessa atalanta (Red Admiral)	T 7	Megalhymus yuccae (Yucca Giant Skipper)	!
Venessa cardui (Painted Lady)	T 7	· · · · · · · · · · · · · · · · · · ·	1
Vanessa virginiensis (Virginia Lady)		Other Butterflies:	
Nymphalis californica (California Tortoiseshell)		Planajers lapani 11	2_
Danaldae (Milkweed Butterflies)	_	Helispetes exist or and	2
Danaus plexippus (Monarch)		Mothy/Styluppola cephalica 11	2
Danaus gilippus (Queen)		Schiusa annautraca	
Satyridae (Satyrs)	.		ļ
Coerconympha caldomica (Common California Ringlet) Pieridae (Whites, Sulphurs)			<u> </u>
Pieris rapae (Cabbage White)		-	i
Pontie sisymbrii (Spring White)	+	·	
Pontia beckerii (Beker's White)	+	· · · · · · · · · · · · · · · · · · ·	
Pontia protodice (Common White) LHT [···	 	
Anthocharis sara (Sara Orangetip) // /		· · · · · · · · · · · · · · · · · · ·	
Anthochans cethura (Felder's Orangetip)		···· ———	
Euchloe Injentis (Desert Pearly Marble) []	2		
Colies eurythome (Orange Sulphur) //1/			
Colles harfordii (Harford's Sulphur) ///	3	· ····	-
Nathalis tote (Dainty Sulphur)	 		
Papijionidae (Swallow(alls)		Notes:	
Pápilio polyxenes (Desert Black Swallowiail)			<u>i </u>
Papilio aurymedon (Pale swallowtali) /			
Papilio rutulus(Western Tiger Swallowtail)		1KOCK 913 2 200 day stalker	<u>. </u>
Riodiniade (Metalmarks)		and abundant	
Apoclomia mormo (Behr's Metalmark) 💉 📉 📉 🔨	60	rew_recruits	<u> </u>
Lycaenidae (Hairstreaks and Blues)	T	Phatigraphie taken	
Celastrina ladon (Spring Azure) Leptoles marina (Marine Blue)		aver circumscribed	
Erephidium exilo (Wastern Pygmy Blue)		hy tractes	
Glaccopsyche lygdamus (Southern Blue/Silvery blue)	+	1/2012	
Homisigus ceraunus (Edward's Blue)	+-	KOCRO14 ~ 30 day stalks	
Icania acmon (Acmon Blue) ///	4-	- sevent yeur vacuat	F · · · -
Philotes sonorerisis (Sonoran Blue)	+-		
Callophrys augustinus (Brown Effin)	-· -· — ·	†·	
Callophrys perplexa (Perplexing Green Hairstreak)	-	†· · · · ·	-
Strymon melinus (Gray Hairstreak)	j:	† .	ŀ
Allides halosus (Great Purple Hairstreak)		† - · · · · · · · · · · · · · · · · · ·	
Everys amyntula	 7 "	† · — · · · · · — — — —	
		- !: :	

nstructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirchinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

	Antirchinum coulterianum	= AC Collinsia concolor = CC
•		
	Amsinckia menziesli	Rancher's Findlenock
س يد ده	Antirrhimum coulterianum	
n		Coulter's Snapdragon
	Antimbinium nuttallianum	Nuttall's Snapdragon
1!	Asclepias fascicularis	Narrow-leaf Milkweed
n	Воссивта вр.	Rock Cress
o	Colandrinia ciliata	Red Maids
a	Catochortus concolor	Golden-bowl Manposa Lity
0	Celystegie longipos	Morning-glory
· •	Camissorie sp	Son Cup
0	Castilleja exerta	Paintbrush
0	Caulanthus heterophyllus	San Diego Jawelflower
0	Quulanthus simulens	Payson's Caulanthus
يميور	Conticuos consetus	Suck Brush
سنا	Ceanothus greggii	Cop-leaf-lilac
12	Ceanothus tencodermis	Chaparral Whitethorn
0	Chacnactis artemisiifolia	White Pincushion
o	Chaenactis glabriuscula	Yellow Pincushion
9	Clematis sp.	Clematis
o	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
٥	Coreopsis californica	California Coreopsis
Ü	Corethrogyne filaginifolia	Common Sand-aster
	Cryptantha sp.	
9-		Cryptantha
6	Cucurbita loetidissima	Calabazilla
	Descuratora sp.	Tansy-musterd
В	Dicentra chrysantha	Golden Ear-drops
c	Dichelostemme capitelum	Blue Dicks
n	Dud/еуя sp.	Dadleya
o	Emmenanine pendulifora	Whispuring Bells
n	Eriastrum sp.	Woolly-star
سا	rEricemente sp	Galdenbush _
٥	Erigeron foliosus	Leafy Daisy
۰.	Eriodictyon trickgentys	Harry Yerba Santa
0	Eriogonum fasciculatum	Inland California Buckwheat
D	Eriogonum sp.	Buckwheat
6	Epiophyllum sp.	Golden-yarrow
ميه	Erodium eicutarium*	Red-stem Storksbill
6	Erysismum capitatum	Western Wallflower
Б	Eschscholzla californica	California Poppy
e	Eucrypta chrysanthemitolia	Spotted Hideseed
o	Euthemia occidentalis	Western Goldenrod
0	Gorrya veatchii	Canyon Silk Tassel
0	Gilia sp.	Gilia
a	Gnaphalium	Cudweed
0	Guillenia lasiophylla	California Mustard
0	Gulierrezia sarothrae	
0	Hefiotropium curassavicum	Broom Matchweed
		Salt Heliotrope
_	Hirstifeldie Incana	Short-pod Mustard
0	Lemium emplexiceule	Henbit
	Zasthenia gracilis	Common Goldfields
	Layia glandulosa	White Layla
г.	Lepidium sp.	Pepperweed
_	Linanthus bellus	Desert Beauty
0	Linanthus dichotomus	Evening Snow
٥.	Lonicera subspicaţa	Johnston's Honeysuckie
C	Malacothrix californica	California Dandelion
a	Malacathrix clevelandii	Cleveland's Malacothrix
Ç1	Marah macrocarpus	Wild-cucumber
0	Marrubium vulgere*	Horehound
o.	Matricana matricarioides*	Common Pineapple-weed
ci .	Mentzelia veatchiana	Veatch's Stick-leak
o	Microsteris gracifis	Signature Philox
o	Mimulus sp.	Monkeyflower
0	Nemophilu menzeisii	Small-flower Baby Blue Eyes
		card more ches

Chaparral Broom-rape

Orobonche bulbosa

	Osmadenia tenella	Osmadenia
0	Paeonia californica	California Peony
0	<i>Beckocarya</i> sp	Pedocerya
•	Phuceliu sp.	Phacelia
0	Pholistoma membranaceum	White Fresta Flower
D	Plagiobothrys sp.	Popcomflower
ϵ :	Plantago patagonica	Desert Plantain
r)	Platysternon californicus	Cream Cups
С	Prunus ilicifolis	Holly-lea! Cherry
4,6	Rutinesquie neomexicana	Desert Chicary
O	Ribes quercetorum	Oak Gooseberry
41	Rorripa nasturfium-equaticum	Water-cress
Ø	Rosa celifornica	California Rosa
0	Saltugilla australis	Southern Gilla
O	Senecia celifornicus	California Butterweed
0	Senecio flaccidus	Butterweed
O	Sidalcea malveuflora	Checker-bloom
.0	Sisymbritim sp.	Tumble Mustard
σ	Solidago californica	California Goldenrod
р.	Stachys ajugoides	Hedge-nettle
0	Stephenomeria sp.	Wreathplant
۵.	Streptanthus compostris	Southern Jewelflower
٥	Stylocline gnaphalioides	Everlasting Nest-etray
Ð	Tetradymia comosa	Catton thorn
!:	Тhysanocarpus sp.	Fringepod
U	Trichostemma parishii	Mountain Bluecurls
<>	Tropidocarpunt gracile	Slendar Dobie-pod
o	Uropappus lindleyi	Silver Puffs
0	Viola purpurea	Oak Yellow Vlotet
ø		
o.		
٥	Other Flowering Plants:	
0		

Rare Wildlife or Rare Plants:

o

Recorder: Fun Bacm	Add'l Person:		Date: 4 0.7 11	GP\$ Unit :
Project: Concentrix Solar Project	Map #:Su	rvey Sxn:	QCB Protocol Survey #	of5
TIME (24-hour) Temp F1):	Wilst (ovg/max)	_ % CC	Sky	
Start - 17/2 5 - 7/12	17-4]		house skower
<u>4</u> 50 <u>70</u>	1.1.7.1	0		Invide shower
1 2 50 1228	1 .	1.	elicury purity owncast _d	sterwer
10.00 735	1 7	- Br	gless, pariety <u>overcasi</u> d	maxic spoise.
$-16\frac{100}{100}$,	ــــــــــــــــــــــــــــــــــــــ	glide parchy enricess d	LT77IPShowor
<u> </u>	''		(6+6) putchy ownsel (higgin stranger
End 7:50 74		- (20	autohy overcus) c	Otrale Shower
Habitat On-site (c-role): open soils, hillto	ps, r <u>idges, rock outc</u>	rops, soil crusts, Total	clay soils, old roads, various nectar sources	
Nymphalidae (Brushfooted Butterflio	B} · · ———		Hesperiidae (Skippers)	Tolal
Euphydryas editha (Quino Checkersp.			Erynnis funcralis (Funereal Duskywing)	
Euphydryas chalcedona (Henne's Che			Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright's Checkersp		7	Erypnis propertius (Propertius Duskywing	TUKU T
Chiesyna californica (California Patch)			Erynnis trizo (Sleepy Duskeyvring)	
Chłosyna gabbii (Gabb's Checkerspot)		Pyrgus nibescens (Checkered Skipper)	
Phyciodes mylitle (Mylitta Crescent)	4€itt		Hesperia jubia (Jubia Skipper)	
Junania counia (Common Buckeye)	↓↓1 ∤∵	4 5—	Polites sabuleti (Sandhill Skipper)	·'
Vanessa armabella (West Coast Lady	· 	·	Megathymidae (Giant Skippers)	
Vanessa platenta (Red Admiral) Vanessa cerdur (Painted Lady)		·	Megathymus yuccae (Yurcca Giant Skipp	<u></u>
Vanessa virginiensis (Virginia Lady)			Other Butterflies:	
Nymphalis californica (California Torti	siseshell)	 -	Common Sortyping	
Danaldae (Milkweed Butterflies)			Description of the second	·——
Danaus plexippus (Monarch)				·
Danaus gilippus (Queen)		🗆		!
Satyridae (Sályrs)	·····			
Coenchymptia culifornica (Common C	aliforcia Ringlet)			
Pieridae (Whites, Sulphurs)				
Picris rapae (Cabbage White) Pontia sisymbrii (Spring White)			·	
Pontia beckenii (Beker's White)	 -		-l· ··	- · ·
Pontia protodice (Common White)		·	 	—- —— ·- - !
Anthocharis sara (Sara Orangetip)		·· ···	 	I :I
Anthocharis celhura (Felder's Oranget		, b	 	——————————————————————————————————————
Euchloo hyantis (Desert Pearly Marble			1	
Collas eurythemie (Orange Sulphur)		F		
Colies harfordii (Harford's Sulphur)				_ '''
Nathalis iole (Dainty Sulphur)				
Papilionidae (Swallowtalis)			Notes:	1 1 1 2
Papilio polyxenes (Desert Black Swalls Papilio eurymedon (Palé swallovitali)	ownaii)		1 7 7 CV CV CV J 7 1	1 COLCINED STREET
Papilio retulus(Western Tiger Swallow	nail\		+ 413 VV 01 ASA -	- MANGE
Riodiniade (Metalmarks) W. Juf Lit	THE DATE OF	· ···		
Apodemia mormo (Behr's Metalmark)	W WHIT WILL	mun 103	5. Blance	Connect
Lycaenidae (Hairstreaks and Blues)			- EE6162	
Cetastona taxton (Spring Azure)	· · · · · · · · · · · · · · · · · · ·		FROYOUNG GREE	1683 24670000
Leptotos marina (Merine Blue)	·		1 58CC 6241 78 CC	15 125 Jake 73 K 16
Brophidium exile (Western Pygmy Blue			CBUCO3A2 GREE	18 63 _ SBC R O(A)
Glaucopsyche lygdamus (Southern Bh	ue/Silvery blue)		1 - CBI 6 6 (A3 - 72) (I	THE TREEASAL
Hemiargus ceraunus (Edward's Blue)		 -	58°C 0512 613C	2014 - JBADAIA4
Philotes sonorensis (Sonoran Blue)		3.	SECCOMA 3	3721 38470M/
Callophrys augustinus (Brown Elfin)		— {	 	////////////////////////////////////
Callophrys perplexa (Perplexing Green	Hairstreak)		 	5832 5 - 20 3019125
Strymon melinus (Gray Hairstreak)			1 2111 Val 2 1111	ディスカー - 332.8 95.60
Allides helesus (Great Purple Hairstres	ak}		+ 38000 - 300	7375 PEUT
·		—·	1 GE (1) 83 CAC	2016 - I
		·	- 一数721066	7 N V.C
			22777752 329	6070103 60 3014 3
			- Pecchous W	S ON MIN
			Dr	

এtial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago palagonico = PP

X	Amsinckia menziesil
11	Antimhimum coulterlanum
э	Attirrhinum nuttallianum
0	Asclepias fascicutaris
×	Boechera sp.
×	Calandrinia ciliata

Calochortus concelor Calystegia longipos Camissonia sp. Castilleja exerta

Caulanthus helerophyllus Cautanthus simutans Ceanothus coneatus Ceanothus greggil Ceenothus leucodermis Chaenactis artemisiifolia Chaenactis glabriuscuta

Collinsia concolor (Chile) Clematis Cordylanthus rigidus Coreopsis californica Corethrogyne filagindolis white W.Common Sand-aster

Cucurbita foetidissima Descurainia sp. Physicial ex-Dicentra chrysantha Dicholostemma capitatum

Dualleya sp. Emmenanthe panduliforal

Eriastrum spaceus (1.4) Ericameria sp. Q. Erigeron foliosus

Eriodictyon trichocelyx Eriogonum fasciculatum Eriogonum sp.

Eriophyllum sp. Len de. Erodium cicutarium* Erysismum capitatum Eschscholzia californica

Eucrypta chrysanthemifolia Euthamia occidentalis Garrya veototiii

Gilia sp. Gnaphalium Guillenia tesiophylla

Gutierrozia samthrae Heliotropium curassavicum Hirshfeldia incona

Lamium emplexicaule Lasmenia gracilis Layla glandulosa Lopidium sp. Linanthus bellus

Linanthus dicholomus Lonicera subspicata -Melacothrix californics . Malacothrix afeyetandii -Marah macrocamus Matrubium vulgara*

Matricaria matricanoides: Mentzella vestchians Microstens gracilis

Mimulus sp. Nemophita menzeisii Crobuncho bulbosa

Rancher's Fiddleneck Coulter's Snapdragon Nuttell's Snapdragon Narrow-leaf Milkweed Rock Cress Red Maids Golden-bowl Mariposa Lity Morning-glory Sun Çup

Paintbrush San Diago Jewelflower Payson's Caulanthus Buck Brush

Cup-leaf-tilac Chapanal Whitethorn White Pincushion Yellow Pincushion

Southern Chinese Houses Dark-tip Bird's Beak California Coreopsis Cryptantha sp. 10 for Mail of Cryptantha

Catabazilla Tansy-mustard Golden Ear-drops Blue Darks Outlieya Whispering Bells Wooily-star -

Goldenbush Leafy Daisy Hairy Yerba Santa

Inland California Buckwheat Buckwheat

Goldon-yarrow Red-stern Storksbill Western Walflower California Poppy Spotted Hideseed Western Goldenrod Canyon Silk Tassel Gilja

Cudweed California Mustard Broom Matchweed N. & Sall Heliotrope

Short-pod Mustard Henbit Common Goldfields Wh**ile** Layia Pappervised.

Desert Reguly Evening Snow

Johnston's Honeysuckie Caldomia Dendelion Cleveland's Malacothrix Wild-cucumber

Horehound Common Pineapple-weed Veatch's Stick-leak

Slender Phlox Monkeyflower.

Small-flower Baby Blue Eyes. Chaparral Broom-rape

Osmedenia tenella Peconia californica Peclocarya sp. Phacelia sp.

Pholistoma membranaceum Plagiobothrys sp.

Plantago patagonica Platystemon californicus a Primus ilicitolia. Rafinesquia neomexicana

э Ribos quercetorum ø Rorripa nosturijum agusticum

a Flose californica Saltugilia australis w Senecio californicus Scriecio flaccidus

Sidelcea malvaeflore Sisymbrium sp. Solidago colifornica ø Stachys ajugoidos

9 Stephenomeria sp. Streptanthus campostris 75 Stylocline grophaticides 0 Totrarlymia comosa

Thysanocarpus sp. Trichostemina parishii Trapidocarpum gracile

Uropappus lindleyi Viola purpurea

Osmadenia California Peony Pectocarya Phacelia:

White Fiesta Flower Popcomflower Ocsert Plantain Cream Cups Holly-teaf Cherry Desert Chicory Oak Gooseberry

Water-cress California Rose Southern Gilia California Butterweed Butterweed Checker-bloom

Tumble Musterd California Goldenrod Hedge-nettle Wroathplant Southern Jewelflower

Everlasting Nest straw Cotton-thorn Fringepod Mountain Bluecurts

Stender Dahle-ped Silver Puffs Oak Yellow Violet

Other Flowering Plants:

Rare Wildlife or Rare Plants:

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D.

Recorder: IX W C stowne Add'l Person:	Date: 5/1/24/1 GPS Unit: 12
Project: Concentrix Solar Project Map #: 4 Survey Sxn:	QCB Protocol Survey # of 5 .
TMPE (24-hour) Tomp (F*): Wind (avg/max) % CC	
Sim 930 56 7/14 0	
	—
	pullthycoon(3s) eticula
6/ 8/14 0	Crinist partity overtess create themes
l — — —— <u> </u>	clear polichy cvercept offsizio shower
	ujeur palishy overtask grazie shower
End 12 (20)	toway policity gorocast chuziu shower
Habital On-site (circle): open soils, hilltops, ridges, rock outcrops, soil crusts, o	clay soils, old roads, various nectar sources Total
Nymphalidae (Brushfooted Butterfiles)	Hesperlidae (Skippers)
Euphydryas aditha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chaloedone (Henne's Checkerspot)	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis trizo (Sieepy Duskeywing)
Chlosyne gebbii (Gabu's Checkerspol)	Pyrgus albescens (Checkerod Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye) Vanessa ennabella (West Coast Lady)	Politos sabuleti (Sandhill Skipper) 🗶
Vanessa alalanta (Red Admiral)	Megathymidae (Glant Skippers)
Vanossa cardui (Painted Lady)	Megathymus yuccae (Yucca Giant Skipper)
Vanassa virginiensis (Virginia Lady)	Other Butterflies:
Nymphalis californice (California Tortoiseshell)	Siller Budernies,
Danaldos (Milkweed Butterfiles)	·
Danaus plexippus (Monarch)	·
Danaus gilippus (Queen)	<u> </u>
Satyridae (Satyre)	
Coenonynipha californica (Common California Ringlet)	<u> </u>
Pieridee (Whites, Sulphurs)	
Pieris reptie (Cabbage White)	
Pontia sisymbrii (Spring White) Pontia beckerii (Beker's White)	·
Portia protodice (Common White)	├
Anthocharis sara (Sara Orangetip)	<u> </u>
Anthocharis celhura (Felder's Orangetip)	— — — — —
Euchloe hyuntis (Desert Pearly Marble)	
Colles eurythome (Orange Sulphus)	├ ─ ──· — — ·─ —
Colias harfordii (Harford's Sulphur)	
Nathalis ide (Dainty Sulphur)	├─ ─·
Papilionidae (Swallowtalis)	Notes:
Popilio polyxenes (Desert Black Swallowfail)	
Papilio eurymedon (Pale swallowfail)	
Pupilio rutulus(Vestern Tiger Swallowail)	
Riodiniade (Metalmarks)	
Apodemia mormo (Behr's Metalmark) #// Lycachidae (Hairstreaks and Blues)	L
Celestrina ludori (Spring Azure)	
Leptotes marina (Marine Blue)	oxdots — — — — $oxdot$ — $oxdot$ — — — — — — — — — — — — — — — — — — —
Brophidium exile (Western Pygmy Blue)	├-
Glaucopsyche lygdernus (Southern Bluo/Slivery blue)	
Humiargus ceraunus (Edward's Blue)	
Icaria aemon (Aemon Blue)	-· · ·- - - - - - - - - - - - - -
Philoles somorensis (Sonoran Blue)	· · · ·—· —- — - — — —
Callophrys augustinus (Brown Ettin)	
Calhiphrys perplexa (Perplexing Green Hairstroak)	— — — — — —
Strymon melinus (Gray Hairstreak)	├ ── ·
Alfidos halosus (Great Purple Hairstreak)	
 	

adal Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Anurrainum coulterian	$tum = AC Cattinsia \ concolor = C$
 Amsinckia monziesii 	Rancher's Fiddleneck
 Antirrhimum coulterianur 	n Coulter's Snapdragon
 Antirchhom nutallianum 	Nuttall's Snapdragon
 Asclepies fescicularis 	Narrow-leaf Milkweed
 Boechera sp. 	Rock Cress
 Caloridrinia ciliata 	Red Maids
 Calachortus concolor 	Golden-bowf Mariposa Lily
Callystogia longipes Camissonia on	Morning-glory
a and the property of the	Sun Cup
Annough availed	Paintbrush
A DESCRIPTION OF THE PROPERTY	San Diego Jewelflower
Cautarithus simulans Ceanothus cuneatus	Payson's Caulanthus
Ceanothus greggii	Bock Brush
n Ceanothus leucodormis	Cup-leaf-lilac
Chaenactis artemislifotia	Chaparrel Whitelborn
Chaenactis glabriuscula	White Pincushion
: Clematis sp.	Yellow Pincuships
Collinsia controlor	Clematis
· Cordylenthus rigidus	Southern Chinese Houses
o Coreopsis californica	Dark-tip Bird's Boak California Co/ecpsis
Corethrogyne filaginifolia	Common Sand-aster
c Cryptantha sp.	Cryptantha
 Cucurbite foetidissime 	Calabazilla
a Descuralnia sp.	Tansy-mustard
Dicentra chrysentha	Golden Ear-drops
 Dichelostemma capitatum 	Blue Dicks
C Dudleya sp	Dudieya
 Emmenanthe pendutifere 	Whispering Berls
 Eriastrum sp. 	Woolly-star
Ericemena sp.	Galdenbush
Erigeron foliosus	Loafy Daisy
Eriodictyon (richocalys	Halry Yerba Santa
Eriogonum fasciculatum	Infand California Buckwheat
Eriogonum sp.	Buckwheat
Enophykum sp.	Golden-yarrow
Erodium cicuterium*	Red-stem Storksbill
Erysismum capitatum	Western Wallflower
Eschacholzia californica	Catifornia Poppy
Eucrypta chrysonthamifolia	Spotted Hideseed
Euthamia occidentalis Garrya vealchil	Western Goldenrod
Gilla sp.	Canyon Silk Tessel
Ghaphelium	Gifia
Guitlonia lasiophytta	Cudweed
Gutierrozia sarothrae	California Mushard
Heliatropium curassavicum	Broom Matchweed
Hirshfeldia incana	Saft Heliotrope
Lamium amplexicaule	Short-pod Mustard
Lusthenia gmellis	Henbit
Layie glandulosa	Common Goldfields
Lepidium sp.	While Layia
Linanthus bollus	Pepperweed
Linanthus dichotomus	Desert Beauty Evening Snow
Lonicera subspiceta	
Malacothrix californica	Johnston's Honeysuckle California Dandelion
Malacottrix clevetandij	Camprille Dangellon Cicveland's Malacothrix
Marah macrocarpus	Wild-cucumber
Merrubium vulgare*	Harebound
Matricaria matricarioldas	Common Pineapple-weed
Menizelia veetchiana	Veatch's Stick-leak
Microsteris gracilis	Stander Phlax
Mimulus sp.	Monkeyflower
Nomophija menzeisii	Small flower 0-by Diagram

Small-flower Baby Blue Eyes

Chapatral Broom-rape

Nomophila menzeisii

Orobanche bulbusa

٠;	Ostmudenia tenolia	Osmađenja
; ;	Paconia californica	California Peony
·,	Peclocarya sp.	Pectocarya
0	Phincelia sp.	Phacelia
!?	Pholistoma membranaceum	White Fiesta Flower
o	Plagiobothrys sp.	Popcornflower
٥	Plantago patagonica	Desert Plantain
•	Platystemon californicus	Cream Cups
•	Prunus ilicifolia	Holfy-leaf Cherry
)	Rafinesquia neomexicana	Desert Chicory
)	Ribes quoroetorum	Oak Gooseberry
1	Ronipa nastudium-aquaticum	Water-cress
,	Rosa californica	California Roso
,	Saltugilia australis	Southern Gilia
:	Senecio californicus	California Butterweed
ì	Senecio Naccidus	Butterweed
٠	Sidalcen malvaeflora	Checker-bloom
•	Sisymbrium sp.	Tumble Mustard
٠	Solidego californica	California Goldenrod
ı	Stachys ajugoides	. Hedge-nettle
	Stephanonteria sp	Wreathplant
,	Streptanthus campastris	Southern Jewelflower
	Styloctine gnapheliaides	Everlasting Nest-straw
	Tetrocymia comose	Cotton-thorn
	Тлукалосигриз вр.	Fringepod
	Trichostemmu perishii	Mountain Bluecuris
	Tropidocarpum gracile	Slender Dobie-pod
	Uropapous lindloyi	Silver Pulls
	Viola purpurea	Oak Yellow Viole1
		-W. Leilch Alolbi
	Other Flowering Plants:	
	_	

Rare Wildlife or Rare Planta:

Recorder: K. H. Os Gorn Add'l Person: Bonnie	(Landrix - Date: 5/2/2011 GPS Unit : 12
Project: Concentrix Solar Project Map #. Survey Sxn: A	1, 4 QCB Protocol Survey # 5 of 5
TIME (244(cur) Yemp (FT): Wind (algorithms) 1 % CC	Sky
Seat 925 69 4/6 0	
— · · · · · · · · · · · · · · · · · · ·	politry evorcasi energi shower
-17.6 - + 75 + 4/21 e-+	
<u> / / / / / / / / / / / / / / / / /</u>	polity ordered charle shower
1/35	
— - <u></u>	
— — — — — — — — — — — — — — — — — — —	Gear palithy rymrasu <u>dra</u> zio shawar
· ; , , , , , , , , , ,	chair policity evertage drive above
EM /15 7.5 7.8/9.8	Const.) patrolly oversial drizing shows:
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil crusts,	
Nymphalidae (Brushfooted Butterflies) Total	Hesperlidae (Skippers)
Euphydryas editha (Quino Checkerspot)	
Euphydryas chalcedone (Henne's Checkerspot)	Erynnis funeralis (Funereal Duskywing)
	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis brizo (Sieepy Duskaywing)
Chlosyne gabbii (Gabb's Checkerspot)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperiu jubia (Jubia Skipper) / // [JII]
Junonia counia (Common Buckeye) 1/// ////	
Vanessa annabella (West Coast Lady)	Polites subuleti (Sandhill Skipper) Megathymidae (Glant Skippers)
Vanesso atalanta (Red Admiral)	
Vanesso cardul (Painted Lady)	Magathymus yuccae (Yucca Giant Skipper)
Vanessa virginiansis (Virginia Lady)	
	Other Butterfiles:
Nymphalis californica (California Tortoiseshell)	Dhilosora contalus II
Danaidae (Milkweed Butterfiles)	
Danous plexippus (Monarch)	
Danaus gilippus (Queen)	·
Satyridae (Satyrs)	Drue Taxia unhacene 1
Coencrympha californica (Common California Ringlet)	
Pieridae (Whites, Sulphurs)	- Schille montage + 1
Picris rapae (Cabbage White)	+
Pontia sisymbrii (Spring While)	
Pontia bockerii (Beker's While)	
	·
Pantia protodice (Common White)	· · · · · · · · · · · · · · · · · · ·
Anthochan's sara (Sara Orangetip)	·
Anthocharis cethura (Folder's Orangetip)	
Euchloe hyantis (Desert Pearly Merble)	
Colles eurytheme (Orange Sulphur)	Ţ: — — — — — — — — — — — — — — — — — — —
Collas harfordii (Harford's Sulphur) \ 111	
Nathalis iole (Dainty Sulphur) / 1///	· +
Papillonidae (Swallowtails)	Notes:
Pupilio polyxenus (Desert Black Swallowtari)	
Papilin eurymodon (Pale swallowfall)	 -
Papillo rutulus(Western Tiger Swallowtail)	
	
Riodiniade (Metalmarks)	
Apodemia mormo (Bohr's Metalmark) X VVX	
Lycaenidae (Hairstreaks and Bluos)	
Celastring ladon (Spring Azure)	
Celastring ledon (Spring Azure) Leptotes marina (Marine Blue)	·/ ·
Leptotes marina (Marine Blue)	
Leptotes marina (Marine Blue) Brophidium exile (Western Pygmy Blue)	
Leptotes marina (Marine Blue) Brephidium exite (Western Pygmy Blue) Glaucopsycho lygdamus (Southern Blue/Silvery blue)	
Leptotes marina (Marine Blue) Brophidium exile (Western Pygmy Blue) Glaucopsycho lygdamus (Southern Blue/Silvery blue) Hemiargus cerautus (Edward's Blue)	
Leptotes marina (Marine Blue) Brepfirdium exile (Western Pygmy Blue) Glaucopsycho lygdamus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue) feariu semon (Aemon Blue)	
Leptotes marina (Marine Blue) Brepfudium exile (Western Pygmy Blue) Glaucopsycho tygdamus (Southern Blue/Silvery blue) Hemiargus cerautus (Edward's Blue) feariu acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue)	
Leptotes marina (Marine Blue) Brophidium exile (Western Pygmy Blue) Glaucopsycho lygdemus (Southern Blue/Silvery blue) Herniargus ceraurus (Edward's Blue) teariu acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Eff.n)	
Leptotes marina (Marine Blue) Brophidium exile (Western Pygmy Blue) Glaucopsycho lygdemus (Southern Blue/Silvery blue) Hemiargus cerautus (Edward's Blue) teariu aemon (Aemon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Elfin) Callophrys perploxa (Perplexing Green Hairsheak)	
Leptotes marina (Marine Blue) Brophidium exile (Western Pygmy Blue) Glaucopsycho lygdemus (Southern Blue/Silvery blue) Hemiargus ceraurus (Edward's Blue) Icariu acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustimus (Brown Eff.n) Callophrys perplexa (Perplexing Green Hairsheak) Strymon mutinus (Gray Hairstreak)	
Leptotes marina (Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsycho lygdemus (Southern Blue/Silvery blue) Hemiargus ceraunus (Edward's Blue) Icariu acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Elfin) Callophrys perploxe (Perplexing Green Hairsheak)	

ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) actions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantago patagonica = PP

	- EEHOL KECOKE	
_	<u>Antirrhinum co</u> ulterianun	n = AC <u>Callinsia concalor = C</u>
-	Amsinokia menziesii	
n		Rancher's Fiddleneck
		Coulter's Snapdragon
0		Nutlair's Snapdragon
	_	Narrow-leaf Mifkweed
٥		Rock Cress
ō		Red Maids
0		Golden bowl Mariposa Lily
0		Morning-glory
·	Castilleja exerta	Sun Cup
n	Caulanthus heterophyllus	Paintbrush
r,	Caulanthus simulans	San Diego Jewelflower Payson's Cautenthus
0	Ceanothus cunsatus	Buck Brush
::	Ceanothus greggii	Cup-leaf-filac
o	Ceanothus leucodermis	Chaparral Whitethorn
ø	Chaenactis artemisirfoliu	White Pincushiph
\mathbf{c}^{*}		Yellow Pincushion
.,	Clematis sp.	Clemetis
ò	Collinsia concelor	Southern Chinese Houses
o	Cordylanthus rigidus	Dark-flp Bird's Beak
$^{\circ}$	Coreopsis californica	California Coreopsis
o	Corethrogyne filaginifolia	Common Sand-aster
0	Cryptantha sp.	Cryptantha
o	Cucurbita foetidissinta	Calabazda
ö	Descurainio sp.	Tansy-mustard
ø	Dicentra chrysantha	Golden Ear-drops
o	Dichelosterima copilatum	Blue Dicks
9	Dudleya sp.	Dudleya
r	Emnunanthe pendulifora	Whispering Balls
c	Eriastrum sp	V/colly-star
0	Ericameria sp.	Goldenbush
o	Engeron foliosus	Leafy Daisy
0	Eriodictyon Inchocalyx	Hairy Yerba Sacla
ð	Eriogomum fasciculatum	Inland California Buckwheat
0	Enogonum sp.	Buckwheat
0	Eriophyllum sp.	Gölden- ya rrow
٥	Erodium cicuterium*	Red-stem Storkshill
n	Erysismum capilatum	Western Wallhower
0	Eschischolzia californica	California Poppy
0	Eucrypta chrysanthemifolia	Spotled Hideseed
٥	Euthamia occidentalis	Western Goldenrod
o n	Garryn veutchii	Canyon Silk Yassel
	Gilia sp.	Giùa ·
	Gnaphulium Guillenia fraischen	Cudweed
)	Guillenia lasiophytla	California Mustard .
,	Gulierrezia sarothrae	Broom Majchweed
,	Heliotropium cumssavicum Hirshlaktio incana	Salt Heliotrope
,	Carshies amalantaria	Short-pod Mustard
	Lamium emplexidadic	Henbit
	Lasthenia gracilis Layia glandulosa	Common Goldfields
	Lepidium sp.	White Layia
,	Linanthus bellius	Popperweed
,	Linenthus dicholomus	Desert Beauty
	Lonicora subspicata	Evening Snow
ı	Melacothrix californica	Johnston's Honeysuckie
	Malacothrix clevelandii	California Dandelign
	Marah macincurpus	Cleveland's Malacothrix
	Marrubium vulgare*	Wild-cucumber
	Matricana matricarioides	Horehound
	Mentzelia vealchique	Common Pineaople-weed Vestrible Stirt-bak

Vestch's Stick-leak

Chaparral Broom-rape

Small-flower Baby Stue Eyes

Stander Phlox

Monkeyflower

Mentzelia veutchiana

Nemophila menzeisii

Orobanche bulbosa

Microsteris gracilis

Minulus sp.

ð	Osmadaniu tenella	Osmadenia
a	Pationis californics	California Peony
n	Poctocarye sp.	Pectocarya
c	Phacella sp.	Phacolia
υ	Pholistome mombranaceum	White Fiesta Flower
O	Plagiobothrys sp.	Popcornflower
٥	Plantago patagonica	Desert Plantain
rj	Platystemon californicus	Cream Cups
:"	Prunus ilicifolia	Holfy-leaf Cherry
0	Rafinesquia neomexicana	Desert Chicory
¢	Ribes quercetorum	Oak Goosebarry
r>	Rompa nasturtium-aquaticum	Water-cress
::	Rosa californica	California Rose
9	Saltugilia eustrolis	Southern Gifia
Э	Senecio californicus	California Butterweed
O	Senecio flaccidus	Butterweed
1	Sidakce malveeflore	Checker-bloom
)	Sisymbrium sp.	Tomble Musterd
١.	Solidago catifornica	California Goldenrod
:	Stochye ajugoides	Hedge-nettle
,	Stephoromoria sp.	Wreathplant
)	Streptanthus cempestris	Southern Jeweiflower
•	Stylocline grisphalioides	Everlasting Nest-straw
,	Tetratlymia comosa	Cotton-thorn
•	Thysanocarpus sp.	Fringepod
,	Trichosternma parishii	Mountain Bluecuris
	Trapidocerpum gracile	Slender Doble-pod
•	Uropappus lindleyt	Silver Puffs
	Viola purpures	Oak Yellow Violet
		•
	Other Flowering Plants:	

Rare Wildlife or Rare Plants:

Recorder: Penersca Gara	// c//(Add'l Person: .	<u>Kan or</u>	1/4/40 Date: 2/2/// GPS Unit: 11/	<u>/</u> :z
Project: Concentrix Solar Project	ct_Map#: <u>/-/</u> -Sur	vey Sxn: <u>∠-</u> /	W. QCB Protocol Survey # 5 of 5	<u></u> ;
TIME (24-hour) Temp (F): Wood (avg/max)	% CC	Sky	
Start 10 150 7.7	::7 2-/ <u>/4</u> 1		clear) paretry overcore course shower	
73.00 125	9 (Tar 77 (S))	7.3	chag pozichy avancast gr <u>ezie slower</u>	
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× -> 6 	··· · · · · · · · · · · · · · · · · · ·	··	Ciput bappin donicast gunaje zuonos	—
l— ·			clear polithy evercast enzide shower	\dashv
<u> </u>			clear pastry overcast druze showar	
End 23(7(2) 1 1	<u>ا نيا انا .</u>	<u> </u>	(John) patchy sworcast directo shewor	
Habitat On-site (circle): open soils, hi:	tops, ridges, rock outcre		lay soils, old roads, various nectar sources	oar :
Nymphalidae (Brushfooted Butterfli		Total	Hesperiidae (Skippers)	otal į
Euphydryos oditha (Quino Chackers		- 	Erynnis funoralis (Funoreal Duskywing)	
Euphydryas chalcedona (Honne's C			Erynnis Instis (Sad Duskywing)	-
Thessalia leanira (Wright's Checkers			Erynnis propertius (Propertius Duskywing)	·
Chlosyne californica (Catifornia Pato			Erynnis briza (Sleepy Duskeywing)	
Chlosyne gahbii (Gabb's Checkersp			Pyrgus albescens (Checkered Skipper)	··
Phyciodes myliffs (Myliffa Crescent)		- 	Hesperiu jubia (Jubia Skipper) // .	5 i
Junonia coenia (Common Buckeye)		1	Politics sabuleti (Sandhill Skipper)	⊱
Vanessa annobella (West Coast Lac		· '	Megathymidae (Glant Skippers)	-
Variessa afalente (Red Admiral)	•	1	Megalhymus уписае (Yucca Gient Skipper)	1
Vanessa cardul (Painted Lady)		Ì		
Vanessa virginiensis (Virginia Lady)			Other Bulterfiles:	
Nymphalis californica (California To	rtoiseshelf)		Politica in tendents of the total	7
Danaidae (Milkweed Butterflies)	· · · · · · · · · · · · · · · · · · ·		A STATE OF THE PROPERTY OF THE PARTY OF THE	
Danaus plexippus (Monarch)			1 Phobound Langer 1 1	2
Deneus grippus (Queen)	. .		1 1 2 2 3 3 3 3 7 3 7	
Satyridae (Satyrs)				
Ccenonympha celifornica (Common	California Ringleti			
Pleridae (Whites, Sulphurs)	·			
Pieris rapno (Cabbage White) Pontia sisymbrii (Spring White)		——-} ···—		
Pontia beckerii (Beker's White)		1		i
Pontia protodice (Common White)	734	· ,	+ +	
Anthocharis sare (Sara Orangeligi)	[i	·· + -5	- 	
Anthocharis cethura (Felder's Orang	44 petio)	- 	"	-
Euchloe hyantis (Desert Pearly Mart	· · · · . <u>- · · · — — — — — — — — — — — — — — — — </u>			
Colles eurytheme (Orange Sulphur)			i i	
Collas harfordii (Harford's Sulphur)		1	1	- !
Nathalis iole (Deinty Sulphur) //	·	122	T	
Papilionidae (Swallowtalls)			Notes:	!
Papillo polyxones (Desert Black Swa			15/10/2007 A v	
Papillo eurymodon (Pale swallowtail			7. A)	
Papilio rululus(Western Tiga: Swaf)	owfait)		L 47,419,	
Ricdiniade (Metaknarks)	 /**		1 6 % N 10	
Apodemia mormo (Behr's Metalmari	k) M Z((?)//.	32	· /2(-/3-)	_
Lycaenidae (Hairstreaks and Blues	<u>}</u>		 	
Celastrina ladori (Spring Azure) Laptoles marina (Marina Blue)			+	
Brephidium exile (Western Pygmy B				-
Glaucopsyche lygdamus (Southern		- I &	4-6, 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Homiargus ceraunus (Edward's Blue		- - 7	= lander (<u>from the state of th</u>	
Icaria acmon (Acmon Blue)		 		
Philoles sonorensis (Sonoran Blue)		· - ' - 	·	
Callophrys augustinus (Brown Effin)		1	· ····	
Callophrys perplexa (Perplexing Gre		 	 	
Strymon melinus (Gray Hairstreak)		1	· 	
Allides halesus (Great Purple Hairst	freak) .	.1—.	·	
		<u></u> 1	1	

Artial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) actions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	A/1/5		. —	· · · · · · · · · · · · · · · · · · ·	
0	Amsinckia menziesii	Rencher's Fiddleneck	e e	Osmadenie tenella	Osmadenia
٥	Antimhimum coulterianum	Coulter's Snapdragon	0	Paconia celifornica	California Peony
•	Antionhimm nuttallianum	Nuttall's Snapdragon	٥	Pectocarya sp.	Pectocarya
2	Asclopias fascicularis	Narrow-leaf Milkweed		Phacolia sp.	Phacelia
٥	Boechera <u>s</u> p.	Rock Cress	- 0	Pholistoma membranacaum	VM:to Ficsta Flower
-	Calandrinia ciliata	Red Maids	- 6	Plagiobothrys sp.	Popcomflowe:
٥	Calochortus concolor	Golden-bowl Madposa Lity		Plantago patayonica	Desert Plantain
0	Calystogia longipes Camissonia sp.	Merning-glory		Platystemon californique	Cream Cups
o c	Castilicja exerta	Sun Cup	0	Prunus ilicifolia	Holly-leaf Cherry
	Caulanthus heterophyllus	Paintbrush	0	Rafinesquia neomexicana	Desert Chicary
9	Caulanthus simulans	San Diego Jewelflower	.0	Ribės quercetorum	Oak Gooseberry
 	Councilhus cuneatus	Payson's Caulanthus	1 0	Ramps nasturtium-aquaticum	Water-cress
ė	Ceanothus greggii	Buck Brush Cup-leaf-lilac	0	Rosa celifornica	California Rose
ñ	Coanothus teucodermis	Chaparral Whitethorn	٩	Salfugika australis	Southern Gitte
0	Chaenactis ademisiifalia	White Pincushion	9	Senecia californicus	Californ a Butterweed
٥	Chaonactis glabriuscula	Yelfow Pincushion	0	Serrecio flaccidus	Butterweed
U	Clematis so.	Clemats	- "	Sidalcea malveefiora	Chacker-bloom
0	Collinsia concolor	Southern Chinese Houses	0	Sisymbrium sp.	Tumble Mustard
	Cordylanthus rigidus	Dark-tip Bird's Beak		Solidego catifornica	California Goldenrod
2	Coreopsis californica	California Coreopsis	9	Stachys ojugoides	Hedge-nettle
0	Corothrogyne filaginifolia	Common Sand-aster	0	Stophunomeria sp.	Wreathplant
e e	Coptantha sp.	Cryptantha	0	Stroptanthus campastris	Southern Jewelflower
ο	Cucurbita foetidissima	Calabazilla		Stylocline gnaphaliaides	Everlasting Nest-straw
o	Descursinia sp.	Tansy-mustard	, °	Telradymia comosa	Cotton-thorn
e.	Dicentra chrysantha	Golden Ear-drops	0	Thysanocатриs sp.	Fringepod
0	Dichelostemme capitatum	Blue Dicks	0	Trichosletnma parishli	Mountain Strecurs
rı	Dudleya sp.	Dudleya		Tropidocarpum gracile	Slander Dobie-pod
o	Emmenanthe pendulifera	Whispering Bells	١	Uropappus lindloyi	Silver Puffs
o	Eriestrum sp	Woolly-star	i a	Viole purpurea	Oak Yellow Violet
0	Ericamena sp.	Goldenbush	1 "		
n	Erigeron foliosus	Leafy Dalsy	1 "	Other Signature Di	
٥	Eriodictyon trictiocalys	Hairy Yerba Santa	"	Other Flowering Plants!	·.
0	Eriogonum fasciculatum	Inland California Buckwheat			
()	Enegonum sp.	Buckwheat	"	•	
rs	Eriophyllum sp.	Golden-yarrow			
•	Erodium eleuterium*	Red-stern Storksbill	"	•	
•	Erysismum capitatum	Western Walfflower	, ,		
0	Eschscholzia californica	California Poppy	"	·	
n	Eucrypta chrysanthemifolia	Spotted Hideseed	,		
Ca C	Enthamia occidentalis	Western Goldenrod		Rare Wildlife or Rare Plants;	
0	Garrya veatchii	Canyon Silk Tassel	آءِ ا	TOTAL TRICKE OF PLANES,	
o	Glie sp.	Glha			
Çi.	Gnaphelium	Cudweed			
0	Guillenia lesiophylle	California Mustard	, ,		
o.	Gutierrezie saruthrae	Broom Matchweed			
15	Heliotropium curassavicum	Sall Heliotrope	0	·	
;	Hirshfeldia incana	Short-pod Mustard	0	•	
n	Lamium emplexicado	Henbit		·	•
,	Lasthenia grecilis	Common Goldfields			
)	Layia glendulosa	VVhite Layis			
1	Lapidium sp.	Pepperweed	5		٠.
a -	Linanthus bellus	Oesert Beauty	a		
)	Linanthus dichotomus	Evening Snow	0		:
	Lonicem subspicate	Johnston's Honeysuckle		·	-
٦.,	44-1 48 1 1.8	California Dandelion			
>	Melacothrix californica			· ·	
; ;	Malacothrix elevelandii	Cleveland's Malacothrix	0		
; ;	Mafacothrix olevelandii Marah mecrocarpus		0		
> :	Malacothrix elevelandii Marah mecrocarpus Marrubium vulgare	Cleveland's Malacothrix	1		
; ; ;	Malacothrix alevelandii Marah macrocarpus Marrubium vulgare* Matricaria matricarioides*	Cleveland's Malacothrix Wild-cucumber Horehound Common Pineapple-weed	۰		
; ; ;	Malacothrix alevelandii Marah macrocarpus Marrubium vulgare* Matricaria matricarioides* Mantzelia voatchiana	Clevetand's Malacothrix Wild-cucumber Horehound Common Pineappte-weed Veatch's Stick-leak	0		
0 0 0 0	Malacothrix alevelandii Marah macrocarpus Marrubium vulgare* Matricaria matricarioides*	Cleveland's Malacothrix Wild-cucumber Horehound Common Pineapple-weed	0 0		

Mimulus sp.

Nomophila monzaişii

Orobanche bulbosa

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

- 1000 (MG) , p1	Marine.	Mullian	<u>^</u> Add'l Per:			Tield Data Sheet
Project: Co						Date: _5-3 · 11 GPS Unit : _7
TIVE IZE.	-bount [Tomp (F):			ey Sxn:	GCB Protocol Survey # 6 of 5
Stort_ 090	oo l	75	_ kyind (avgyna	땅	_¥_cc	
11	30]	_Z8°_	-3-5-	 -	∞ <u>Ç</u> -	Land Dearly Dearly Dearly
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150	6		<u>6-7</u> -	-	- 42	0000 miles
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i Traniscou-aiel	(eitele), open :	<u>soils, hilliops, j</u>	kdgeszrock ce	ilorops	Soil crust	s clay soils cold roads (various nectar sources)
Nymphalidao (B	Prushfooted I	Bulterfiles -		<u></u>	Tota	y sery sons, and roads (various nectar sources)
- which makes but	MARI (Outro C	Academina .				Hesperiidae (Skippers)
- $ -$	idik) pekupa dala		Snoth		- -	Erynnis funeralis (Funerasi Bustiani
The contract of the contract o	/ժ (YYnoh) e C	'hackozonati				_ 1 Prynt//S 4/18th Said Dustrianian T = T = T = T = T = T = 1
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∽токупа дарду	# (Gabb's ∩ba	3ckampat) = -			··- —	- Frynnis Offzo (Sigeny Duschaussian)
 i vikevogoz utlikit 	Ka Mulitia Cw	Pernell			· -	Pyrgus albescons (Checkered Skinner) =
Junonia coenia Vanossa sanos	(Common Bu	(ckøye)			· -	riosperia judia (Jubia Skinnan
Vanosse annab Vanessa alalani	ene (Ped 25-5	est Lady)			- † ·	Polites sebuloti (Sandhill Skipper) Megathymidae (Glant Skippere)
Vanessa curdui	Painted Admir	(all) (云・ --- -			-	Menathways termon of Table 1
- Vonessa virginio	Mais Officiole			 ·		Megathymus yuccao (Yucca Giant Skipper)
- MYMPhalis califo	Chica (Califor				_ [Other Butterilies:
A THE PROPERTY OF THE PROPERTY OF	Cd Buttartia	esi	_ · ·			1
_ счапаце рівхірри	S (Monarch)				<u> </u>	
Danaus gilippus	(Queen)				-	
atyridae (Satyrs))			· ·	- {	
Coenonympha ce leridae (Whites,	#Wornica (Con	nmon Californ	ia Ringlet)		· 	
Pieris rupae (Cab	eulonurei .				· - ^	
Pontia sisymbrii (t	Cage wynite)				헉	†
Poritia Dockerii (Bi	eket,s Mikara) obidili Avudel			 -	1	<u> </u>
Pontia protodica (i	Common Maki	<u> </u>			*	<u></u>
Anthocharis sam (Sec Bearing	<i></i>			[67]	
Hamocharis cethu	70 (Feldere C	. 				
wwe nyanus (C	Misert Passes	Min. 27 . 2			#3	
compa entallidade l	(Otanga Cala	L — — — — -			E -Z≺.	
onwas usuoton (Ma	afford's SurnA	:ur) — — — .			H . Y.	[-(1])
Valhalis iolo (Daint	y Sulphur)					
Pilionidae (Swalle	owialis)		- 			Notes:
apilio polyxenes (, apilio eurymedon	/Bala Black	Swallowteil)		- - -		
apilio rutvius(Wes	Trate swallow	vtai!)			·· 	
משונים שוו אחמיייים	ark∉l		·- —			
podemia marmo (8	Behr's Merale				ᢢ ॏ॒_ ┤	到-73
semidae (Halistie	aks and Blu	esi —		ļ	四月] 湖	14. 16. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17
erasinna ladon (St	Iring Agues)			J_]	
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θρηκούψη σχής (Νι	Palern Dunna.	Blue ;			4.	
იიღინაგული გამტე	mas (Souther	e blocks to	blue)	+		
omiorgus cereunus ana acmon (Acmor	(LEOWami'e Al	lue)		E	<u>#</u> }_∫-	#L
llotes sonorensis (7 810€} 18 810€}	-		-15	الإسكا	(1)
	Southan Bine	3) 		-Æ,	ובייי	[
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llophrys augustinu flophrys perplaxa (ymon melinus (Grea des halesus (Grea	By Maristreak) If Purnte Haire	1		· - - <u>#</u>		
llophrys augustinu llophrys perplexa (ymon melinus (Gu	ny Maristreak) nt Purple Hairs 1 ∰ ± ⊈ B	1		_77	- - 1	

ritlal Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantago patagonica = PP Antirrhinum coulterianum = AC Collinsia cancalor = CC

	Antirrhinum coulterianu	m = AC <u>Collinsia concolor =</u>
	Amsinckie menziesii	Rancher's Fiddleneck
"	Antirchimum coulterianum	Coulter's Snapdragon
O	Antimhinum nuttallianum	Nuttall's Seapdragon
.!	Asclopias luscicularis	Narrow-leaf Milkweed
\sim	Oechera sp.	Rock Cress
0	Calandania ciliata	Red Maids
6	Calochortus concotor	Golden-bowl Mariposa Lify
œ	Calysterija tongipes	Marning-glory
>	Camissonia sp.	Sun Cup
9	Casiliteja oxerta	Paintbrush
٥	Caulanthus horerophyllus	San Diego Jewelflower
e.	Caulanthus simulans	Payson's Caulanthus
۹,	Ceanothus curreatus	Buck Brush
×	Ceanuthus greggii	Cup-teaf-filad
0	Ceanothus leu codomis	 Chaparral Whitelhorn
",	Chaennotte artemisiikulia	White Pincushion
×		Yellow Pincushion
н	Clematis sp	Clematis
0	Collinsia concolor	Southern Chinose Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
e.	Corcopsis californica	California Coreopsis
•:	Corethrogyne lifeginilolia	Common Sand-aster
×	Cryptantha sp.	Cryptantha
٥.	Cucurbita foetidissima	Calabazilla
Y		Tansy-mustard
۰	Dicentra chrysentha	Golden Ear-drops
× .	Dichelostomma capitatum — Dudloya sp	Blue Dicks
 (I		Dudleya
0	Emmenantha ponduttora Eriaștrum sp.	Whisparing Bells
Ó	Ericameria sp.	Woolly-star
0	Erigeron foliosus	Goldenbush
o	Enodictyon trichocatyx	Leafy Daisy
o.	Eriogonum fesciculatum	Hairy Yerba Santa Inland California Buckwheat
c	Eriogonum sp.	Buckwheat
ب	Eriophyllum sp	Golden-yarrow
ż	Erodium cicularium*	Red-stem Storksbill
ૈ	Erysismum capitatum	Western Wallflower
N.	Escharholzia californica	California Poppy
^	Eucrypta chrysonthemitolia	Spotted Hideseed
12	Euthamia godidentatis	Western Goldenrod
.1	<i>Gелтув veatchii</i>	Canyon Silk Tassel
0	Gilia sp.	Gil ^s a
2	Gnaphalium	Cudweed
)	Guillenia lasiophytla	California Mustard
>	Gutierrezia sarothrao	Broom Matchweed
	Heliotropium curassavicum	Salt Heliotrope
Κ.	Hirshfeldie Incana	Short-pod Mustard
, ,	Lamium amplexicaule	Henbit
	Lastherika gracitis	Common Goldfields
,	Layta glandulosa	White Layia
^	Lepidium sp.	Popperweed
Ε,	Linanthus bellus	Dosert Beauty
	Linanthus dicholomus	Evening Snow
,	Lonicere subspicate	Johnston's Honeysuck'o
))	Malacethnix californica	California Dandelion
	Malacottirix elevelandii .	Cleveland's Malacothrix
,	Marsh macrocarpus	Wild-cucumber
	Marrubium vulgare* Matricuria matricarioides*	Harehound
	Mentzelia vealchiana	Common Pindapple-weed
	merijasiis viielonana Microsteris gracilis	Veatch's Stick-feak Stender Phiax
	Minutus en	Menhadiana

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Mimulus sp.

Nemophila menzeisii

Orobanche bulbosa

٥	Osmadenia tenella	Osmadenia
O	Pagonia californica	Galifornia Peony
×		Pectocarya
×	· · · ·	Phacelia
0	Pholistoma membranaceum	White Fiesta Flower
X	Plagiobothrys sp.	Popcomflower
::	Plantago patagonica	Desert Plantain
ڼ	Platystemon catifornicus	Cream Cups
0	Prunus ilielfolia	Holly-leaf Cherry
σ	Rafinasquia neomexicana	Desert Chicory
0	Ribes quarcetorum	Oak Gooseberry
÷	Romps nasturtium-aquaticum	Water-cress
:>	Rose californice	California Rose
٥	Sallugida austrelis	Southern Gitia
a	Senecio celifornicus	California Butterweed
o	Senecio flaceldus	Bulterweed
o	Sidalces malyaetiora	Checker-bloom
×	Sisymbrium ap.	Tumble Mustard
'n	Solidago cetitornica	California Goldenrod
17	Stochys ajugoides	Hedge-nottio
U	Stephanomeria sp.	Wreathplant
O	Streptanthus campestris	Southern Jewelflower
C	Stylocline gnapholioides	Everlasting Nest-straw
Q.	Telradymia comose	Cotton-thorn
×	Піукапосагриз вр.	Fringepod
17	Trichostemma paristili	Mountain Bluecuds
U	Tropidocerpum gracile	Slender Dobie pod
\mathbf{Y}	Uropappus lindleyl	Silver Puffs
44	Viola purpuiae	Dak Yeliow Violet
a		
0		
o.	Other Flowering Plants:	

Nagetative Encopia action i

Rare Wildlife or Rare Plants:

149222 mi on cit

Recorder: KH Os bons Add Person: 13	- 	Banking Date: 5/5/2011 GPS Unit:	<u>Z.</u>
Project: Concentrix Solar Project Map #: 2 Survey S	xn:	QCB Protocol Survey# 6 of	5 .
	.cc	5ky	
	c	patchy overcust dezite stawer	
·	_ 1		
245 75 5/8	← ⊢·		
15 <u>5/8</u>	<u> </u>		_
	1.	<u>close palicky overcasi detrate</u> sixo ver	
		case policiny countries drippin abovers	
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End 4-10 74 Calm	- <u> </u> - +		
Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, so	oil crua <u>ls, c</u>	عادله ماده العادلة عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله عادله ع عادله عادله	
	To <u>tal</u>	-	Total
Nymphalidae (Brushfooted Butterflies)	l	Hosperiidae (Skippers)	<u>.</u> .
Euphydryas oditha (Quino Checkerspot)	<u> </u>	Erynnis functulis (Functeal Duskywing)	_
Euphydryas chalcodoria (Henne's Checkerspot)	[Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright's Checkerspot)	"	Erynnis propertius (Propertius Duskywing)	2
Chiosyne californica (California Patch)	_	Erynnis brizo (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's Checkerspot)	[·	Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitta (Mylitta Crescent)	 	Hesperia jubia (Jubia Skipper)	7
Junonia coenia (Common Buckeye) ///	3	Polites sabuleti (Sandhill Skipper) ///	23
Vanessa annabella (West Coast Lady)	j	Megathymidae (Glant Skippers)	
Venessa atalanta (Red Admiral)	: —	Megathymus yuccaa (Yucca Giant Skipper)	,
Venessa cardui (Painted Lady)	:		
Vanessa virginiensis (Virginia Lady)	:	Other Butterflies:	•
Nymphalis californica (California Yortoiseshell)	· · · · —	· · · · · · · · · · · · · · · · · · ·	
Danaldee (Milkweed Butterfiles)	[-	
Danaus plexippus (Monarch)		 	
Danaus gilippus (Queen)	·		-
Salyridae (Salyrs)	 	The theorem	
Coanonympha californica (Common California Ringlet)	· 	Mother Sching achyancas	
Pleridae (Whites, Sulphurs)	i —	S. C. S. G. S. G. S. C. S. G. S. C. S. G.	9-
Pieris rupue (Cabbage White)	†		
Pontia sisymbni (Spring White)	 	· ·	
Pontia beckerli (Beker's White)	1	· · · · · · · · · · · · · · · · · · ·	l.
Pontia protodice (Common White)	<u> </u>	 	•
Anthonharis sara (Sara Orangetip) / 7	7	 	•
Anthocharis cathura (Felder's Orangetip)	· ~ ·		
Euchtoe hyantis (Desert Pearly Marble)	· —	· · · · · · · · · · · · · · · · · · ·	
Collas ourytheme (Orange Sulphur) // //	7	· · · · · · · · · · · · · · · · · · ·	
Collas harfordii (Harford's Sulphur)	 `	·	
Nathelis iolo (Dainty Sulphur) //		 	-
Papilionidae (Swallowtalls)	+ -	Notes:	· .——
Papilio polyrenes (Deseri Black Swallowiaii)	.} ⋅		i
Papilio eurymedon (Pale swallowtail)	·		
Papillio rututus(Western Tige: Swallowtsil)	·		-
Riodiniade (Metalmarks)	h · ·		
Apodemia mormo (Behr's Metalmark) // V// 1/2000 V	43	 	
Lycsenidae (Hairstreaks and Blues)		· — — — —	
Celastrina ladon (Spring Azure)	·}	 	
Leptotes marina (Marine Blue)	 	 	
Brophiduitt exile (Western Pygmy Blue) /)	+	· · ·	<u> </u>
Glaucopsyche lygdanius (Southern Blue/Silvery blue)	·	 	
Hemiargus ceraunus (Edward's Blue)	 	<u> </u>	-
Icaria acmon (Acmon Blue) 47111	8-	<u> </u>	· —
Philotes sonorensis (Sonoran Blue)	⊹ ∸ -	·	•
Cullophrys augustinus (Brown Elfin)	 	 -	<u> </u>
Cullophrys perplexa (Perplexing Green Hairstreak)	·	· <u></u> i	
	 	 	
Strymon motious (Grey Hairstreak)	- ·	.	
Attides tratesus (Great Purple Hairstreak)	+-,-	 	
Plane ing light 1	. ــ رِئِـ ـ ـ ا	·l	
Eurys amyulita 111	3		

ವಾರುವ Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulovard, California (Concentrix Solar) .uctions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

٠.	Antirrhinum_coulterionun	n = AC Collinsia concalor = CC	Cordylar	nt <u>hus rigidus = CR - P</u> lantago	potagonico = PP
-6	Amsinckia monziesii	Rancher's Fiddleneck	- , -		
0		Coulter's Snapdragon	n	o or a dearline terraprity	Osmadenia
0		Nuttall's Snapdragon	- 1	· Pe of No. California	California Peony
a		Narrow-feat Milkweed	۰	·	Pectocarya
٥	Boochera so.	Rock Crass	n	z nedene vp.	Phacella
c	Calendrinia ciliota	Red Maids	c	Pholistome membranaceum	White Flesta Flower
U	Calochortus concolor	Golden-bowl Mariposa LIN	٥	Plagiobolinys sp.	Popcarnflower
ÇI	Calystegia longines	Morning-glory	!:	- willings paragoings	Desert Plantain
G	Camissonia sp.	Sun Cup	. 6	Plalystemon californicus	Cream Cups
c	Castilleja exerta	Painthrush	٥	Prunus ilicifolia	Holly-leaf Cherry
6	Caulanthus heterophyllus	San Diego Jeweiflower		Ralinesquia neomexicana	Desert Chicory .
6	Caulanthus simulans	Payson's Cautanthus	0	Ribes quercetorum	Oak Gooseberry
ŕ	Ceanothus cuneatus	Buck Brush	- ^	Rompa nasturlium aquaticum	Water-cress
	Ceanothus greggii	Cup-leaf-lilac	"	Rosa californica	California Rose
0	Caanothus leucodermis	Chaparral Whitethorn	٥	Saltugilia australis	Southern Gilia
Ç.	Chaenactis artemisiifolia	White Pincushion	K1	Senecio californicus	California Butterweed
0	Chaenactis glabifuscula	Yelkov Pincushlon	0	Serrecio flaccidus	Bullerweed .
ч	Clematis so	Clematis	۰	Sidnlosa malvaellora	Checker-bloom
o	Collinsia concelor	Southern Chinese Houses		Sisymbrium sp.	Tumble Mustard
0	Cordylanthus rigidus	Dark-tip Bird's Beak	٥	Solidago californica	California Goldenrod
0	Coreopsis californica	California Coreopsis	.] ^	Stochys ajugoides	Hedge-nettle
ø	Carethrogyne filaginifelia	Common Sand-aster	- °	Stephanomeria sp.	Wreathplant
υ	Cryplantha sp.	Cryptantha	- 1 °	Streptanthus campestris	Southern Jewelflower
0	Cocurbita footidissima	Calebazilla	0	Stylocline gnaphelioldes	Everlasting Nest-straw
47	. Descurakús sp.	Tansy-mustard	۰	Tetradymia comosa	Cotton-thorn
0	Dicentra clirysantha	Golden Ear-drops	:1	Thysanocarous sp.	Fringepod
J	Dicdelosternma capitatum	Blue Dicks		Trichoslemma parishir	Mountain Bluecuris
σ	Dudleya sp	Dudleya	.] "	Tropidocarpum gracile	Slender Dobie-pod
12	Emmenonthe pendulifora	Whispering Bells		Uropappus lindleyi	Silver Puffs .
Ω	Eriastrum sp.	Woolly-star	0	Viola purpulea	Oak Yellow Violet
n	Ericameria sp.	Goldenbugh	2		•
o	Erigeron foliasus	Lealy Daisy		·	
0	Eriodictyon trichocalyx	Hairy Yerba Santa .	٥	Other Flowering Plants:	
12	Eriogonum fosciculatum	Inland California Buckwheat	- 0		
c.	Eriogonum sp.	Buckwheat			
n	Eriophyllum sp.	Golden-yarrow			
٥	Erodium cicularium*	Ned-stern Storksbill	ь	•	•
¢.	Erysismum capitatum	Western Wallflower	S		
o.	Eschscholzia californica	California Poppy	٥		· · · · · ·
$^{\circ}$	Eucrypta chrysanthomitolin	Spotted Hideseed	9		
12	Euthamia occidentatis	Western Goldenrod	. "	Rare Wildilfe or Rare Plants:	
:;	Garrya veatehii	Canyon Silk Tassel	0	Rare whichite or Rare Plants:	
o	Gilia sp.	Gilia	0		
0	Gnaphalium	Cudweed		. •	
0	Guillania lasiophylla	California Mustard	- 0	•	
c:	Gulierrezia sarothrae	Broom Matchweed	0		
o	Heliotropium curessavicum .	Salt Helictrope	0		
n	Hirshfeldia incana	Short-pod Mustard	0		
o	Lamium amplexecute	Henbit	j 👶		•
o	Lasthenia gracitis	Common Goldfields	"		
o	Layia glandulosa	White Lavis	- 1		
ě.	Lepidium sp.	Pepperweed	9		
0	Linanthus bottus	Desert Beauty			
:>	Linanthus di ch otomus	Evening Snow	0		
17	Lonicera subspicata	Johnston's Honeysuckle	٥		
9	Malacothn's californica	Cat fornia Dandelion	f:		
0	Malacothrix clevelandii	Cleveland's Malacothrix	0		
e	Marah macrocorpus	Wild-cucumber	0		
o.	Merrubium vulgare*	Horehound	0		•
	Making alia su adala a da tata sa		4 0		

Common Pineapple-weed

Small-Rower Baby Blue Eyes

Спарата і Вгоот-гаре

::

a

Vealch's Stick-leak

Stander Phlox

Monkeyflower

Matricaria matricarioides*

Mentzelia voatchiana

Memophila menzaisir

Orobanche hulbosa

Microsteris gracilis

Mimulus sp.

¢

Recorder: Frin Bergman Add'l Person: M	large	SIT Date: C
Project: Concentrix Solar Project Map #: Survey S	Sxn:	QCB Protocol Survey # of 5
I '	<u>s</u> cc	
Start	_	
	$ \top$	
	_ i-	
i T = :	_ ·	
End — — — —	— †	
Habitat On-site (orcle): open soils, hilltops, ridges, rock outcrops, so	oif crusts, c	clear pastry shakow wexo showe
Nymphalidae (Brushfooted Buttertlies) AVA A	Total	
Euphydryas oditha (Quino Checkerspol)		Tuosbaurgea (2kibbate)
Euphydryos chalcedona (Henne's Chackerspot)	┥ —	Erynnis funeralis (Funereal Duskywing)
Thossalia foariira (Wnght's Checkerspot)	├	Erynnis tristis (Sad Duskywing)
Chlosyne celifornice (California Patch)	 	Erynnis propertius (Propertius Duskywing)
Chlosyne gabbii (Gabb's Checkerspot)	┨ ─ .	Pyrgus alboscens (Checkered Skipper)
Phyclodes mylitta (Mylitta Crescent)	+ $-$	Hasperia Jubia (Jubia Skipper)
Junania coenia (Cammon Buckeye)	Ţ Ŧ	Polites sebuloti (Sandhill Skipper)
venessa annedera (West Coast Lady)		Megathymidae (Glant Skippers)
Vanessa atalanta (Red Admirat) Vanessa cardui (Painted Lady)		Megathymus yuccao (Yucca Giant Skipper)
Variessa virginiensis (Virginia Lady)		<u> </u>
Nymphelis californica (California Tortoiseshell)	+	Other Bulterfiles:
Denaldes (Milkwood Butterfiles)	<u>† </u>	Square Spetted ptures III -4-
Daneus plexippus (Monarch)	 	The function of the settle de to
Danaus gilippus (Queen)	<u> </u>	- - - - - - - - - - - - - -
Satyridae (Satyrs)	<u> </u>	— — — · · · · · — — — — — -
Coenonympha californica (Common California Ringfet)	ļ — —	<u> </u>
Pieridae (Whites, Sulphurs) Pieris rapae (Cabbage White)	:	
Pontie sisymbrii (Spring White)	Ļ _ ∣	
Pontiu beckeni (Beker's White)	 —	
Pontia protodice (Common White)	{ — {	·
Anthocharis sera (Sara Grangetip)	<u> </u>	— — — — — — . _ .
Anthochous acthura (Falder's Orangetip)	-	+ + -
Euchice hyantis (Desert Pearty Marble)	T . — I	
Collar barfarai (Urange Sulphur)	Ĺ [_]	
Colias harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur)	∟ Т	
Papillonidae (Swallowtails)	_	
Papilio polyxenes (Desert Black Swallowtail)	├— <i>-</i>	Notes:
Papilio ourymedon (Pale swallowtail)	—	
Papilio rutulus(Western Tiger Swallowted)	· †	· + · ·
Riodiniade (Metalmarks)		··
Apodemia mormo (Behr's Metalmark)	\square_{2}	
Colastrina ladon (Spring Azure)	';	
Leptolas manita (Marine Blue)		
Brephidium exilo (Western Pygmy Blue)	— — ŀ	— ——
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	$ \rightarrow$	— - — - — -
Hemiargus coraunus (Edward's Blue)	-+	·
logrie acmon (Agmon Blue) (18)	ट ⊤	· + -
Princies sonorchais (Sonoran Blue)	↑	— - · · — ·— — — — — — — — — — — — — — — —
Callophrys augustinus (Brown Effin)	l	
Callaphrys perpluxe (Perplexing Green Hairstreak) metinus (Gray Hairstreak)		
Wastis (Great Purple Hairstreak)		
	- +	·
·		·

ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix 9 _{ructions}

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantogo potagonico = PP

_	Antirrhinum coulterianum = i	AC Collinsia concolor = CC C
¥	Amsinckia menziesil	Rancher's Fiddleneck
۰,`	Antirrhimum coulterlanum	Coulter's Snapdragon
· 0	Antirchinum nuttallianum	Nuttall's Snapdragon
, e	Asclepias fascicularis	Narrow-leaf Milkweed
×	Boechore tp.	Rock Cress
o"	Catandrinie ciliata	Red Maids
0	Calochortus concolor	Golden-bowl Manposa Lily
C	Catyshegia tongipes	Morning-glary
	Camissoma sp.	Sun Cup
r:	Castilleja exerta	Paintbrush
Q.	Caulanthus heterophyllus	San Diego Jewelflower
	Caulanthus simulans	Payson's Caulanthus
×	Ceanothus cuneatus Ceanothus greggii	Buck Brush Cup-leaf-lifac
7	Coanothus leucodermis	Chaparrat Whitethorn
i)	Choonoctis artemisitolia	Waite Pingushion
	Cheenactis glabriuscula	Yellow Pincushion
×	Clematis sp.	Clemats
×	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
ů,	Coreopals californica	California Goreopsis
.3	Corethrogyne filaginifolia	Common Sand-aster
Ж,	Corethrogyno filoginifolia Cryptantha sp.	Cryptantha
٠,	Cucurbita foetidissima	Calabazilia
Ŷ	Descurainia sp.	Tansy-muslard
ž	Dicentra съгузанта	Golden Ear-drops
Э.	Dichelostemme capitalum	Blue Dicks
₽.	Dudleya sp.	Dudleya
_	Emmenanthe pendulifora Eriestrum sp.	Whispering Bells Woolly-star
* Š	Ericameria sp.	Goldenbush
6	Erigoron foliosus	Leafy Daisy
×	Eriodictyon trichocatys	Hairy Yerba Santa
x	Eriogonum fesciculatum	Inland California Buckwheet
X.	Eriogonum sp.	Buckwheat
Ж,	Eriophyllum ap.	Golden-yarrow
×	Erodium cicutarium	Red-stern Storksbill
2.	Erysismum capitatum	Western Wallflower
×	Eschacholzia celifornica	California Poppy
O -	Eucrypia chrysanthem ifc lia	Spotted Hideseed
ů	Euthamia occidentalis	Western Goldenrod
*	Garrya vealchii Gilia sp.	Canyon Silk Tassel Gilia
7	Graphalium	Cudweed
5	Guillenia tasiophylla	California Mustard
*	Gulierrezia saralliree	Broom Matchweed
'n	Heliotroplum curessavioum	Salt Heliotrope
×	Hirshfeldia incana	Short-pod Mustard
υ	Lamium amplexicavle	Henbit :
×	Lasthenia gracilis	Common Goldfields
×	Layla glandulosa	White Layla
<u>"</u>	Lepidium sp.	Pepperweed
X	Linanthus bolius	Desert Beauty
ڻ	Linenthus dichotomus	Evening Snow
X	Lonicera subspicata	Johnston's Honeysuckie
0	Malacethrix californica Malacethrix elevelandil	California Dandelion
n,	Marah macrocernus	Cleveland's Malacothrix WML-cucumber
Ϋ́	Merrubium vulgare*	W#d-cucumber Harehaund
\sim	Malriceria matricarioides*	Common Pineapple-weed
	·	Vestch's Slick-lesk
	steris gracilis	Stender Phlox
	(5 sp.	Monkeyf:ower
	hilo menzelsii	Small-flower Baby Blue Fyes
	he bulhosa	Chaparral Broom-rape

11	Osmadenia tenella	Osmadenia
٠.	Paeonia celifornica	California Peony
Κ.	Pectocarya sp. 1	Pettocarya
	Phacelia sp. (A) (1744)	Phacelia .
	Pholistoma membranaceum	White Fiesta Flower
۲.	Plagiobothrys sp.	Popcom/lower
9	Plantago patagonica	Desert Plantain
2	Platystemon californicus	Cream Cups
	Prunus ilicifolia	Holly-leaf Cherry
٠.	Rafinesquia neomexicana	Desert Chicary
×	Ribes quercetorum	Oak Gooseberry
٥. آ	Rompa nasturtium-aquaticum	Water-cress
,	Rosa californica	California Rose
٠,٠	Saltugilia pustralis	Southern Gitia
۹	Senecio californicus	California Butterweed
· '	Seneció flaccidus	Bullerweed
	Sidalces malveeflore	Checker-bloom
ζ.	Sisymbrium ep.	Tumble Mustard
Α.	Solidago californica	California Goldenrod
	Stechys ejugordes	Hedge-nette
>	Stephanomeria sp.	Wreathplant
١,	Streptonthus campostris	Southern Jewelflower
4	Styloctine gnaphalioides	Everlasting Nest-stray
þ	Telmdymia comosa	Colton-linern
Ξ.	Thysenocerpus sp.	Fringepod
4	Trichostemina pärishii	Mountain Bluecur's
9	Tropidocarpum gracile	Slander Dobie-pod
3	Uropapous lindleyi	Silver Puffs
ı	Viola purpurea	Oak Yellow Violet
.i	•	
)		

Other Flowering Plants:

Rare Wildlife or Rare Plants: SBADO1A1 58160282 20000202 02 EDALOSA) 500 PD141 56 groj A1 28160141°

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet $\frac{149277}{200}$

Recorder Kan C	<u>)sborm_</u> Add'l Person:_		Date: 5/4/2011 GPS Unit: 3
Project: Concentrix Sol	ar Project_Map #:Surve	y Sxn:	GCB Protocol Survey # 6 of 5
TIME (24-hour)	Tomp (F1): Mod (evologis)		5 ky
Start / 14-0	88 4/6	0	
13/0			right pulgity transport plants shower
7, 2-3		— <u> </u> -	
/	 -	— †	clear salidity overcast dirazie shower
		- · · —	
			c.nar palchy ovorrast <u>enviso</u> <u>shower</u>
<u>.</u>].	
272 Ela	90 carlos		
·		s, ș <u>ail crusts, c</u>	lay soils, old roads, various nectar sources
Nymphalidae (Brushfooted	Division Nicol	Total .	Total
Euphydryus editha (Quino			Hesperiidae (Skippers)
		<u> </u>	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (H		-	Erynnis Iristis (Sad Duskywing)
Thossalia leanira (Wright's			Erynnis propertius (Propertius Duskywing) [[
Chlosyne californica (Califo		-	Eryanis bazo (Sleepy Duskeywing)
Chlosyno gobbii (Gabb's C			Pyrgus afboscons (Checkered Skipper)
Phyciodes mylitta (Mylitta C		_	Hesperia jubia (Jubia Skipper) //
Junania comia (Common E		<u> </u>	Polites sabuleti (Sandh'll Skipper)
Vanessa annabolia (West (Megathymidae (Glant Skippers)
Vanessa atalanta (Red Adr			Megathymus yuccae (Yucca Giant Skipper)
Vanessa cerdui (Painted L			ļ <u></u>
Vanessa virginiensis (Virgir			Other Butterfiles:
Nymphalis californica (Cali			
Danaldae (Milkweed Butter			
Danaus plexippus (Monarc	<u>n)</u>		Mathe
Dannus gilippus (Queen)	·		
Satyridae (Salyrs)		:	(Kaplies - M. of Figlies 1)
	Common California Ringlet)		
Pieridae (Whites, Sulphurs)		ᅠ	
Pioris repae (Cabbago Whi			
Pantia sisymbni (Spring Wi			
Pontia beckerii (Beker's Wi			
Pontia protodica (Common			
Anthocharis sera (Sara Ora			L
Anthocharis celhure (Felde			
Euchloe hyantis (Besert Pe]	
Colias eurytheme (Orange]	
Collas harfordii (Harford's S		7	
Nathalis iole (Dainty Sulphi	n) ////	4	·
Papilionidae (Swallowtalis)			Notes:
Papilio polyxenes (Dosert E	Back Swallowtail)	- -	
Papilio eurymedon (Pale sy	vallowtail)		· · — · · · · · · · · · · · · · · · · ·
Papilio nitulus(Western Tig	er Swallowtail)		
Riodiniade (Metalmarks)	· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·
Apodemia monno (Behris I	Ae(almark) ✓ ⋉ ⋉	30	· — · — · — · — · — · — · — · — · — · —
ycaenidae (Hairstreaks an			· · · · · · · · · · · · · · · · · · ·
Celastrina ladon (Spring Az		· ·	·
Loptotus mavina (Marine B.		.	<u> </u>
Brephidium exile (Western		-	 ·
Glaucopsyche lygdamus (S		- -	ROCCAL 3 50 IL To - I NO M
Hemiergus cereunus (Edwa		- I	KOTWL = Tiger which (a) 1 livaced
Icaria acmon (Acmon Blue)		2	- Tiger whip sell librard
Philotos sonorunsis (Sonos		- · 	KOCCOL = 20 plants in one Ma
Callophrys augustinus (Bro			- NOULONE FU MONTS in pac Me
Callophrys perplexa (Perple		$-\!\!+\!\!-\!\!-$	
Strymon melinus (Gray Hai			│·
Allides halesus (Great Purp			· · · · · · · · · · · · · · · · · · ·
	-		
Everys amor	itula 111		

Potential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC = Collinsia concolor = CC = Cordylanthus rigidus = CR = Plontago patagonica = PP

_	Antirrhinum coulterianum	n = AC Collinsia concolor = CC	-
ü	Amsinckia menzlesii	Rencher's Fiddieneck	
о		Coulter's Snapdragon	
o	Antichinum nutallisnum	Nuttairs Snapdragon	
ຄ	Asclopias fascicularis	Natrow-leaf Milloweed	
o	Boochere sp.	Rock Cress	
٠,	Catandrinia ciliate	Red Maids	
o	Calechartus concalor	Golden-bowl Mariposa Lily	
9	Calystagia longipes	Morning-glory	
a	Camissonie sp.	Sun Cup	
o	Castillola exerte	Paintbrush	
á	Caulanthus heterophyllus	San Diego Jewelflower	
۲,	Caulanthus simulans	Payson's Caulanthus	
Ó	Ceanothus cuncatus	Buck Brush	
e	Cennothus greggij	Cup-leaf-lifac	
¢	Ceanothus loucodermis	Chaparral Whitethorn	
٠:	Chaonactis artemisiifolia	White Parcushing	
0	Chaenactis glabriuscule	Yellow Placushion	
0	Clematis sp.	Clematis	
-	Collinsia concolor	Southern Chinese Houses	
э	Cordylanthus rigidus	Dark-tip Bird's Boak	
n	Corcopsis californica	California Coreopsis	
0	Corethrogyne filaginifolia	Common Sand-aster	
e,	Cryptantha sp.	Cryptantha	
١;	Cucurbita foetidissima	Calabazilla	
0	Descurainia sp.	Tensy-musterd	
	Dicentra chrysantha	Golden Ear-drops	ļ
9	Dicheloslumma capitalum	Blue Dicks	1
3	Dudleya sp.	Dudleya	[
	Emmenanthe pendutitem	Whispering Bells	
٠	Eriastrum sp.	Woolfy-star	
)	Ericameria sp.	Goldenbush	- [
1	Erigeron foliosus	Leafy Dalsy	ij
>	Eriodictyon trichocatys	Hairy Yerba Santa	
>	Eriogonum fasciculatum	Inland California Buckwheat	
;	Enogonum sp.	Buckwheat	
)	Eriophyllum sp.	Golden-yarrow	
,	Erodium cicutarium	Red-stem Storksbil/	- 1
)	Erysismum çapitalum	Western Wallhower	ı
٠.	Eschscholzia californica	California Poppy	
•	Eucrypta chrysanthemifolia	Spotted Hideseed	
1	Euthamia occidentalis	Western Goldenrod	1
•	Garrya vestchii	Canyon Silk Tasse!	-
•	Gilia sp.	Gilla	
	Graphalium	Cudweed	
	Guillenia losiophytta	California Mustard	4
	Gutterrezia sarothroe	Sroom Matchweed	1
	Heliotropium curassavicum	Saft Heliotrope	ſ
	Hushfeldiu incane	Short-ped Mustard	
_	Lernium amplexicaule	Henbit	
	Lasthonia gracilis	Common Colonelds	1
-	Layla glendulose	White Layia .	Т
	Lepidium sp.	Pepperweed	
	Linenthus bellus	Desert Beauty	
	Linanthus dicholomus	Evening Snow	
	Lonicera subspicate	Johnston's Honeysuckie	
	Malacolhrix californica	California Dandelion	
	Mulacothrix clevelandii	Cleveland's Malacothrix	
	Marah macrocarpus	Wild-cucumber	
	Matrubium vulgare* Matricada matricados*	Horehound :	
	AMBRESSON CORPORATION	Common Name of the	- 1

Common Pineapple-weed

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Veatch's Stick-leak

Slender Phiox

Monkeyflower

Metricaria matricario des*

Mentzella vestchinne

Nemophila menzoisii

Orobanche bulbosa

Microsteris gracitis

Mimulus sp.

Ö	Osmodenia tonella	Osmadenia
0	Precnia californica	California Penny
	Pediocarya sp.	Pectocarya
•	Phacelia sp.	Phacetia
5	Pholistoma membranaceum	White Fresta Flower
٤	Plagiobothy's sp.	Popcomflower
)	Plantago patagonica	Desert Plantain
)	Platystemon californicus	Спеалт Саре
,	Prunus Hicifolia	Holly-leaf Cherry
>	Rafinesquie neomexicana	Desert Chicory
:	Ribes quercetorum	Oak Gooseberry
ı	Rompe nesturtium-equaticum	Water-cross
,	Rose californice	California Rose
,	Saltogilio australis	Southern Gilia
>	Senecio californicus	California Butterweed
!	Senecio flaccidus	Butterweed
•	Sidalcea maivaeflora	Checker-bloom
١.	Sisymbrium sp.	Tumble Mustard
•	Solidago californica	California Goldenrod
	Stachye glugoides	Hedge-nettle
	Stephenomeria sp.	Wreathplant
	Strepterthus compostris	Southern Jewelflower
	Stytocline gnaphalioides	Everlasting Nest-straw
	Tetradyfilla comosa	Catton-thorn
	Thysanocarpus sp.	Fringepod
	Trichoslemma parishii	Mountain Bluecuris
	Tropidocarpum gracile	Slender Dobie-pod
	Uropappus lindleyi	Silver Puffs
	Viola purpurea	Oak Yellow Violet

Other Flowering Plants:

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Rare Wildlife or Rare Plants:

Quino Checkerspot Butterfly Protocol Survey — Field Qata Sheet Pt. /h. /h-Add'l Person: **GPS Unit** Concentrix Solar Project _Maρ#: QCB Protócol Survey # Project: Survey Sxn: TIME (24 hour) % cc Temp (P*) Wind (avg/mex) catze, STORES disar 91450 (In added Shows <u>anzzia</u> drzze dezzo Habitat On-site (circle): open soils, hitltops, ridges, rock outcrops, soil crusts, clay soils, old roads, various nectar sources Total Total Nymphalidae (Brushfooted Butterfiles) Hesperiidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnus funeralis (Funereal Duskywing) Euphydryas chałcodona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thesselia leanire (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californice (California Patch) Erynnis brizo (Sleepy Duskeywing) Chlosyne gabbii (Gabb's Checkerspot) Pyrgus albescens (Checkered Skipper) Phyclodes mylitta (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coonia (Common Buckeye) Polites sabulati (Sandhill Skipper) Vanessa annubella (West Coast Lady) Megathymidae (Glant Skippers) Vanesse etalenta (Red Admiral) Mogathymus yuccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) Vanessa virginiensis (Virginia Lady) Other Butterfiles: Nymphalis californica (California Tortoisesheli) Donaidae (Milkweed Butterflies) Danaus ploxippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyrs) Coenonymphe californica (Common California Ringlet) Pleridae (Whites, Sulphurs) Pioris rapae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckoni (Beker's White) Pontia protodice (Common White) / | Anthochan's sara (Sara Orangetip) Anthochans cethura (Felder's Orangetip) Euchloe hyantis (Desert Pearly Marble) Colias ourytheme (Orange Sulphur) | 1 Collas harfordii (Harford's Sulphur) Natheris lole (Dainty Sulphur) Papilionidae (Swallowtails) Notes: Papilio polyrenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowtail) Papilio rafulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apoderna mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celestrine ladon (Spring Azure) Leptotos marina (Marine Blue) Brophidium exile (Wostern Pygrny Blue) Glaucopsyche lygdamus (Southern Stua/Silvery blue) Homiargus coraunus (Edward's Blue) Icana acmon (Acmon Blue) [] Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Effin) Callophrys porplexa (Perplexing Green Hairstreak) Strymon melinus (Gray Haustreak) Atlides halesus (Great Purple Hairstreak)

ਮ Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Matricaria matricarioides*

Mentzelia vestchlane

Microstoris gracilis

Nemophila menzeisit

Orobanche bulbosa

Mimulus sp.

Antirrhinum coulterianum = AC Collinsia cancolo: ÞР

_	Antirrhinum coulterianum	n = AC Collinsia concolor = CC	Cordyla:	nthus rigidus = CR <u>Pl</u> antaga	<u>patagonica = PP</u>
مبية (33)	Amsinckia menziesii	Rancher's Fiddleneck			
15	Antirrhimum coulterlenum		- 0		Osmadonia
٥	Antirthinum nuttallianum	Coulter's Snapdragon	::	· design paintering	California Peony
0	Asclepias (ascicularis	Nuttair's Snapdragon	- 2	·	Pectocarya
ā	Boachers so.	Narrow-leaf M licweed	- 6		Phacelia
	Calandrinio cilieta	Rock Cress	- 1 -	•	White Fiesta Flower
٥		Red Maids	- 0		Popoornflower
. 0	Calachortus concolor	Golden-bowl Mariposa Lily			Desert Plantain
	Calystegia longipes	Morning-glory	ه ا		Cream Cups
۰	Cemissonio sp.	Sun Cup	- 6		Holly-leaf Cherry
٥	Castilleja exerta	Paintbrush		Rafinesquia neomexicena	Desert Chicory
٥	Caulanthus heterophyllus	San Diego Jewelflower		Ribes quorcetorum	Oak Goosaberry
0	Caulanthus simulans	Payson's Caulanthus		Romipa nasturtium oquaticum	Water-cress
0.7	Ceanothus cuneatus	Buck Brush	- 0	Rosa californica	California Rose
火	Ceanothus greggu	Cup-leaf-filac		Sattugilia australis	Southern Gilia
07	Ceanothus leucodermis	Chapacral Whitethorn	د ا	Senecio celifornicus	
o	Chaenactis arlemisilfotia	White Pincushion	1	Sorkicko Wacanda	California Butterweed
O	Chaenactis glabriuscula	Yellow Pincushion	٠,	Sidalceo malvaellora	Butterweed
5	Clematis sp.	Clematis		Sisymbrium sp.	Checker-bloom
0	Collinsia concolor	Southern Chinese Houses	0	Solidago californica	Tumble Mustard
0	Cordylanthus rigidus	Dark-tip Bird's Beak	``	Stachys ajugoidos	California Goldenrod
С	Coreopsis californica	California Coreopsis	"	Stochane	Hedge-nettle
0	Corethrogyne filaginifolia	Common Sand-aster	Ĭ	Stephanomerie sp.	Wrealhplant
ο.	Cryptaniha sp.	Cryptantha	_ I	Streptanthus campestris	Southern Jewelflower
e.	Cucurbita foelidissime	Calabazilla	1 5	Stylockine gnaphakaides	Everlasting Nest-straw
o	Doscureinia sp.	Tansy-mustard	1 °	Telradymia comosa	Cotton-thorn
0	Dicentra chrysantira	Golden Ear-drops	"	Thysartocurpus sp	Fringepod
^نيرا	Dichelostemma capitatum	Blue Dicks	1,	Trichostemine parishii	Mountain Bluecurts
· 67.	Dudleyn sp.	Dudieya	١ ،	Tropidocarpum gracile	Slander Dobie-pod
ο.	Emmenentho pendulifora	Whispering Bells	٥	Uropoppus lindloyi	Sitver Puffs
:1	Eriastrum sp	Woolly-slar	٥	Viola purpurea	Oak Yallow Violet
9	Encamena ap.	Goldenbush	د ا		
O.	Erigeron foliosus	Lealy Daisy	٠ ١		
. 0	Eriodictyon trichocalyx	Hairy Yerba Santa	0	Other Flowering Plants:	
o	Eriogonum fasciculatum	Inland California Buckwheat	0		
0.0	Eriogonum sp.	Buckwheat	0		
.,	Eriophyllum sp		<1		•
	Etodium cicuterium*	Golden-yarrow	- 4		
	Erysismum capitatum	Red-stem Storksbill	0		
o	Eschscholzia californica	Western Wallflower	13		
0	Eucrypta chrysanthemidolia	California Poppy	٥		
ő	Euthamia occidentalis	Spotted Hideseed	6	·	
		Western Goldenrod	0	Rare Wildlife or Rare Plants:	
in Ta	Ganya veolchii Gilia sp.	Canyon Silk Tassel	0		
	Gnaphalium	Girla	U		
		Cudward			
	Guillenia lusiophylla	California Mustard	0		•
C!	Gulierrezia sarothrae	Broom Matchweed			
41	Heliotropium curassavicum	Salt Heliotrope	- E		•
υ j	Hirshfeldia incona	Short-pod Mustard			
	Lamium amplexicadio	Henbit : ; ·			·
83	asthenia gracilis	- Common Goldfields 🏗 切木 🔬	ا و الم		
K I	Byle glandulosa	White Layia	[A Company of the Comp
	epidium sp.	Pepparweed			
	inanthus boilus	Desert Beauty			
	inanthus dichotomus	Evening Skow	I		
0 (Onicere subspicata	Johnston's Honeysuckle	. 0		
o 1	dalacethrix californica	California Dandelion	^		
	Malncothrix çlevetəndil	Cleveland's Malacothrix	0		
o #	farah macrocarpus	Wild-cucumber	0		
0 A	Aarrubium vulgare*	Horehound	i °		
	Antricaria mateinarioidae	Assess Bases II	. 0		

Common Pineapple-wood

Small-flower Baby Blue Eyes

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Veatch's Stick-leak

Сларато Втоот-гаре

Slender Phiox

Monkeyflower

Quino Checkerspot Butterfly P_{T000CO} Survey — Field Data Sheet

Recorder Margie Mulli	13Add Person:			Date	: <u>5.5.11</u>	GI	PS Unit :	3
Project: Concentrix Solar Project	Map#: 4 Sun	vey Sx	п:	QCB Prote	ocol Survey#	ط_	of	5
TIME (24-hour) Temp (PT):	Whitel (evigrenas)	% (×c -		ঠনু			
sum 0930 Roo	2-6	5			paichy overcass	dnzzia	shower	_ " -
1200 890	2-0	5	<i>=</i>	clear	policity gwycasi	dhade	#IDWIN	— -··· -
500	0-2	Č	+-		•			
1600 88	2-6		5		patchy overcast	. <u></u>	shower	
	 				Transplant Constitution	<u>drizado</u>	shower	
	 		·		paichy owncast	drizzin	Shower	
	 			. clear	outday overtast	drizzte	6hower	
End	<u> </u>	_		clear	mida — oroma	<u>drizzka</u>	shower	
Habitat On-site (circle); open soils) hilitops	ridges rock outcro	ps, soil	crusts o	lay soils (old roads, 9	arious nectar sourc	æs		
Nymphalidae (Brushfooted Butterflies)	71-1-21-4-122-12 ² -12-12	2550	Total	Hesperlidae (Skip	Mariel Vive Vive	<u></u>		<u>Totaí</u>
Euphydryes editha (Quino Checkerspot)		1947 E. A.		Ennais fungable	(Funereal Duskyw	000		· ·
Euphydryas chalcedona (Henne's Chec			-	Erynnis Instis (Sa				+
Thessalie leanira (Wright's Checkerspot)				s (Propertius Dusk	vuine)		100
Chlosyne californics (California Patch)	·		— ·		epy Duskeywing)	J <i>i</i> mny)		 1
Chlosyne gabbii (Gabb's Checkerspot)	<u>-</u>	- 1			s (Checkered Skip)			
Phyciodes mylitta (Mylitta Crescent)		 		Hesperia jubia (J				1 .
Junonia coenia (Common Buckeye)		$\neg \uparrow$	NI C					+
Vanesse ennabolio (West Coast Lady)			1-21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Megathymidae (G				~
Vanessa atelanta (Red Admiral)	· · · ·	\dashv			cee (Yucca Giant S	Kipper)		.,
Vanassa cardui (Painted Lady)				r 7. <u></u>	•			
Vanešsa virginiensis (Virginia Lady)	· · 	Ť		Other Buttorfiles:	TO METERS OF THE STATE OF THE S	Section (Section)	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u></u>
Nymphalis californica (California Tortos	eshell)	[,4-,		
Danzidee (Milloweed Butterflies)		- 1 T						\top
Danaus plexippus (Monarch)							·	
Danaus gilippus (Queen)		[<u>.</u>		
Salytidae (Satyrs)								ŢŢ <u></u>
Coenonymphe californics (Common Cal	rornia Ringlet)	~~						
Pieridae (Whites: Surphurs)		76-11						 .
Pontia sisymbril (Spring White)	-· <u></u>			ļ.————————————————————————————————————				
Pontie beckeni(Boker's White)	·	-	1 (1)					
Pontia protodice (Common White)	 .							+
Anthocharis sara (Sara Orangetip)	-	+	m (θ)					
Anthocharis cethura (Felder's Orangetip)	··	 †						····-
Euchice hyentis (Desert Pearly Marble)	-			·				
Collas eurytheme (Orange Sulphur)				b. (3)				
Colles harfordii (Harford's Sulphor)				D -				
Nathalis iole (Dainty Sulphur)			<u>1</u> 702	-				
PapilionIdae (Swallowtails)		Marie Contract		Notes:	<u> </u>		San (2)	<u> </u>
Papillo polyxenes (Desen Black Swallow	tail)							
Papilio eurymedon (Pale swallowtail)	95		$\Box \Omega$					
Papillo rutulus(Western Tiger Swallowta	ill) - on the contractor and the second	Thursday.						
Ricciniade (Metahnarks) Apodemie mormo (Behr's Metalmark)	25-1-17 (41-97), 20 (17 (4A))		<u> —</u>) = -		.
Lycaeridae (Hairstreaks and Blues)	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	\$1.555 \$1.555	LERT (ATT) A	man in the	TH 4TH 4TH	πா(Æ8)		
Celastrina ladon (Spring Azure)	<u>~9.00 (19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 1</u>	765.7.1°						
Leptoles marina (Marine Blue)		\rightarrow			_			
Brephidium exile (Western Pygmy Blue)					· —			
Glaucopsyche lygdamus (Southern Blue			(2)					+
Hemiargus ceraunus (Edward's Blue)			·					-
Icaria acmon (Acmon Blue)			<u> (3) I</u>	<u> </u>	· · · ·			
Philotes sonorensis (Sonoren Blue)					 ··			+-
Callophrys augustinus (Brown Elfin)		†		-				+
Callophrys porplexe (Perplexing Green	fairstreak)							+
Strymon melinus (Gray Hairstreak)								
Attides halesus (Great Purple Hairstreak)	. [:=					\top
Mycotian- An Jad BING			$\Pi \Pi \Pi$)				
Square-spotted Blue		l	$\mathbb{R} = \widetilde{\mathcal{D}}$)				

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail. PLEASE RECORD HOST PLANTS ON GPS Se

Antirrhinum coulterlanum = AC Callinsia concolor = CC Cordy

	= AC COMMISSIO CONCOLOT = CC
Amsinckie menziesii	
Antirhimum coulterlanum	Rancher's Fiddleneck
Antirrimum coulterlanum Antirrimum nuttelljanum	Coulter's Snapdragon
> Goechera sp.	Narrow-leaf Milkweed
Calandrinia cillata	TOOK CIPSS OF THE STREET
Celochortus concolor Celystegia longices	Red Maids
⁰ Calystegia longipes	Golden-bowl Manposa Lily
Camissonia so	Morning-glory
Cartiissonia sp. Castilleja exerta	Sin Cab
Coulenthus heterophyllus	rangorush
CHIMADIDUS CINCIPAS	Sen Diago Jawelliower
Ceanolhus cunantie	Payson's Carlanthus
o Ceanolhus cuneetus Ceanolhus graggii	Buck Hunga
P. Ceanothus leucodernie	Cup-leaf-tilac
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Ghaenactis glabnuscula	WITHOUT PURCESSINON
· Clematis sp.	
The Art Committee of the Committee of th	Cremans
 Contribution the state of the contribution 	Southern Chinese Houses
Corpoosis californica	Dark-tip Bird's Beak
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Cryptanting sp. Cucurbite foetidissame	Common Sand-aster
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Dicharatanna managan	Golden Ear-drops
O Dudleva sp	Pho Dicks
9. Emmenonthe riendality	Dudleya
o Emmenanthe pendulifera Eriestrum sp.	Whiapcring Bells
De Elicameria se	Woolly-star
De Ericamena sp Erigaron foliosus	Goldenbush
9 Erlodictvon tochonalin	Leafy Dalsy
e Eriodictyon thehocalyx Eriogonum fasciculatum	Hairy Yerba Santa
© Enogonum sp.	Inland California Buckwheat
Eriophyllum spp.	Puckwiest 1972
Eroclum okulanum*	Golden-yarrow
o Erysismum capitalum	Neo-stem Storksbill
Eschschofzia californica Eucrypta chrysenthemine	Western Wallflower
 Eucrypta chrysonthemitolia 	чалотна Рорру
Euthamia occidentelis Garrya veatchii	Spotted Hideseed
 Garrya veatchii 	weelen Goldensod
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Guilleria lusionibillo	Judweed
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o 2 Heliotropium curassovicum	room Matchweed
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St amium ampiexicaule Lasthenie gracilis C	nort-pod Mustard
Lasthenia gracilis C	新时 第5个百名的6万多数。
Layis glandulosa Lepidium sp.	ommon Goldfields
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Mentania via dishina a	union cui ambbie-weed
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Mentzolia voelohlana Ve Microsteris gracilis Sk Mimuljus ap Mc	atch a Stick leak ander Phlox inkeyflower

ee Codes Below: dylanthus rigidus = CR	go patagonica = PP
	åp horodoui¢g = bh
o Osmadenie tenelle	Osmadenia
Paconia californica	California Doses
X Poctocerya sp.	Pedocarys
> Phecelia sp	ar that Phaesaka
Plagiobothrys sp.	Pepcornflower
 Plantago patagonica 	Desert Plantain
Platystemon californicus	Cream Cups
·· I / U / U / U / U / U / U / U / U / U /	Maller I I
 Refinesquie neomexicana 	Desert Chicory
P. Rompo nesturdum equaticum	Water-cress
THE THE PRINCE PARTY	figlifornia Dava
Salugilla australis	Southern Gilla
The American College Land	*
Seriecio finocicius	Buttenweed
X Sisymbrium ap	Checker-bloom Tumble Mustard
O Stachys ajugoides	Hedge-nettic
Streptanthus camposins	Cariffornia Lauraia
 Stylocline gnaphalioides 	Everlasting Nest-straw Cotton-thorn
Tetractymia comosa	Collegishors
 Thysanocarpus sp. 	Fringepod
9. Tricliostemmo parishi:	Mountain Rummeta
Tropidocarpum gracile Uropanpus lindleyi Viola numures	Sleader Dable and
Wropappus lindleyi	Silver Puffe
 Viola purpurea 	Oak Yedow Violet
	Oak Yellow Violet
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9 Other Flowering Plants:	azanta da kindintak
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	Miratina mala da ka
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· Limintus bolles

WMCBal-03

atahiyas splendens

Nest egg unknown 12 inch white on ground

Recorder: Bonnie Dendick End Person: Frin	Bergman Date: 5/5/11 GPS Unit: 12
Project: Concentrix Solar Project Map #: 4, Survey Sxr	OCB Protocol Survey # Co of 5
[[emp F'/c Wind (avaimax) e.c.	c Putside 306F
Star 9.45 - 95.0 1937 - 0	
1-44-45-1350[250]	
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F3-29-1-29-01-2 25.0 0	
End 4:00 87.5 5.6796 0	
Habitat On-site (circle) open soils hilltops, ridges, fock outcrops, soil of	rusts clay soils cold roads carious pages control of the stylenger
Nymphalidae (Brushfooted Butterfiles)	
Euphydryas editha (Quino Chackerson) = + +	Hosperfidae (Skippers)
Euphydryas chaicedona (Henne's Checkerson)	·
	Erynnis tristis (Sad Duskywing)
Chlosyne californica (California Patch) Chlosyne gabbii (Gabb's Checkerspot)	Erynnis brizo (Sleepy Duskeywing)
Phyciodes mylitia (Mylitta Crescent)	$=$ $=$ \downarrow Pyrgus albescens (Checkered Skipper) \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow
Junonia coenia (Common Suckeye)	Mesperia jubia (Jobia Skipper)
Vanossa annabella (West Coast Ladv) → - + + +	3 _ Polites sabulet (Sandmil Skipper)
Vanessa atalanta (Red Admiral)	Megathymidae (Giant Skippers)
Vanessa cardui (Painted Lady)	Megathymus yuccae (Yucca Giant Skipper)
Vanessa virginionsis (Virginia Lady) Nymphalis californica (California Tortoisesheli)	Other Butterflies: :
Danaldae (Milkweed Butterfiles)	
Danaus ploxippus (Monarch) — — — — — — — —	Western to ted blue 1 18 - 16-
Danaus gilippus (Queen)	
Satyridae (Satyrs)	
Coencrympha californica (Common California Ringlet) Pleridae (Whites, Sulphurs)	
Preris repaie (Cabbage White)	b
Pontia sisymbrii (Spring White)	
Pontio beckerii (Beker's White)	
Pontia protudico (Common White) T ニー・・ナナルギ けた・・・	<u> </u>
Anthocharis sera (Sara Orangelip)	^ · ·
Anthocharis celhura (Felder's Orangelip)	[1
Euchico hyantis (Desert Pearly Marble) Colias eurythemo (Orange Sulphur)	
Collas hortordii (Harford's Sulphur)	
_ realization (Chainty Sulphur)	· _
Papillonidae (Swallowtails)	Notes:
Papilio polyxones (Deseri Black Swalkowali)	
Papillo eurymedon (Pale swallowtor) Papillo rutulus(Western Tiger Swallowfail)	-
Riodiniade (Metalmarks)	
Apodemia mormo (Behr's Metalmark) VATVI 7 TOTAL A	
ycaenidao (Hairstreaks and Blues) フーーディッグルタガルト	54
Celastrina ladon (Spring Azure)	·
Leptoles marino (Marine Blue)	
Brephidium cxile (Western Pygmy Blue)	<u></u>
Gloucopsyche lygdamus (Southern Blue/Silvery, blue) Hemiargus ceraunus (Edward's Blue)	_
Kraffa acinon (Acmon Blue)	_
Philotos sonorensis (Sonoran Blue)	·+
Callophrys augustinus (Brown Elfin)	-
Callophrys perplexa (Perplexing Green Hairsteak)	—
Strymon molinus (Gray Hairstreak) Attides halesus (Great Purple Hairstreak)	<u> </u>
	<u> </u>

itial Nectaring or Host Plants for Quino Checkerspot Butterfly In Boulevard, California (Concentrix Solar).

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below.

Antirrhinum coulterianum = AC Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago potagonica = PP

See Erins

Amsinckla	menziasii

- Antirrhimum coulterlanum
- Antimhinum nuttellierum D
- Asclepias (ascicularis
- o Boechora sp.
- 6 Calandrinia ciliata
- á Calochortus concolor
- O Calystegia longipos:
- E. Camissonia so.
- Castilleja exerta
- Caulanthus heterophytius
- Caulanthus simulans
- CT. Ceanothus cuneatus
- Ceanothus greggii o
- Ceenothus leucodermis
- 3 Citaenactis artomisiitojia
- o Chachactis glabriuscula
- Clematis sp.
- Collinsia concolor
- Cordylanthus rigidus
- Coreopsis californics
- Corethrogyne filaganifolia
- Cryplantha sp.
- Cucurbita foetidissima
- Doscurainia sp.
- Diconira chrysantha
- Dichetostemnia cepitatum
- Dudleya sp.
- Emmenanthe pendulitera
- Eriastrum so
- Ericamoria sp.
- Erigeron foliosus
- Eriodictyon trichocalyx
- Eriogramum tasciculatum
- Eriogonum sp.
- Eriophyllum sp.
- Erodium cicularium*
- Erysismum capitatum
- Eschscholzia californica
- Eucrypta chrysanthemifolia
- Euthamia eccidentalis
- Garrya veatchir
- Gilia sp.
- Gnaphalium
- Guittenia lastophytta
- Gutierrezia serottirae
- Haliotropium curassavicum
- Hirshfeldia incana
- Lamium amploxicaule
- Lasthenia gracilis
- Layie glandulose
- Lepidium sp.
- Linanthus belius
- Linonthus dichotomus
- Lonicera subspicate
- Malacothnix celifornica
- Melacothrix clovelandii
- Marah macrocarpus
- Marrubium valgare*
- Metricaria metricarioides*
- Montzelia yeatchiana
- Microsteris gracitis
- Mimulus sp.
- Nemophila menzeisii
- Orobanche bulbosa

- Rancher's Fiddleneck Coulter's Snapdragon
- Nuttail's Snapdragon
- Nacrow-leaf Milkweed
- Rock Cress
- Red Mains.
- Golden-bowl Mariposa Lily
- Morning-glory
- Sun Cup Paintbrush
- San Diego Jewelflower
- Payson's Caulanthus
- Buck Brush
- Cup-leaf-lifed
- Chaparral Whatethorn
- White Pincushion
- Yellow Pincushion
- Clematis
- Southern Chinese Houses
- Dark-tip Bird's Beak
- California Coreopsis
- Common Sand-aster
- Cryptantha
- Calabazilla
- Tansy mustard
- Golden Bar-drops
- Blue Dicks
- Dudleya
- Whispering Bells
- Woody-star
- Goldenbush
- Leafy Daisy
- Heiry Yerba Santa
- Inland California Backwhoat
- Buckwheat
- Goldon-yarrow
- Red-stom Storksbill
- Western Walfflower
- California Poppy Spotted Hideseed
- Western Goldenrod
- Canyon Silk Tasset
- Gilia
- Cudweed
- California Mustard
- Broom Matchweed
- Seit Heliotrope
- Short-pod Mustard
- Harchit Common Goldfields
- White Layte
- Pepperweed
- Desert Reauty
- Evening Snow
- Johnston's Honeysuckie
- California Dandelxon
- Cleveland's Malacothrix Wild-cucumber
- Harehound
- Common Pineapple-weed
- Voatch's Stick-lead
- Sfender Phiox
- Monkeyflower
- Small-flower Baby Blue Eyes
- Chaparral Broom-rape

- Osmedenia tenella
- 12 Paeonia culifornica
- o Poctocarya sp.
- 'n Phacetia sp.
- 9 Pholistoma membranaceum
- Plagiobolthrys sp.
- Plantago patagonica Platystemon californicus ō
- Prunus iligitotia:
- o Rafinesquia neomexicana
- ;: Ribas quercetorum
- Ronipe nasturium-aquaticum .,
- o Rosa californica
- o Saltugilia australis
- Senecio californicus
- e Sonocio flaccidus
- Sidotoea majyaefforn
- Sisymbrium sp. 11 Solidago californica
- ø Stachys sjugojdes
- Stephanomeria sp. Streptanthus campastris
- Stylocline gnaphalloides
- O Tetradymia comoso
- O. Thysanocarpus sp. ó Trichostemma perishli
- Ö Tropidocarpum gracile Uropappus lindleyi
- Viola purpurea

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e.

- Osmađenia
- California Peony
- Pectocarya
- Phacelia
- White Flesta Flower
- Рорсоппомег
- Desert Plantain
- Cream Cups
- Holly-leaf Cherry
- Desert Chicory
- Oak Gooseberry
- Water-cress
- California Rose
- Southern Gilia
- California Butterweed Butterwood
- Checker-bloom
- Tumble Mustard
- California Goldenrod Hedge-nettle
- Wroathplant
- Southern Jawelflower
- Everlasting Nest-straw
- Cotton-thorn Fingerod
- Mountain Bluecurls

Oak Yellow Violet

Slander Dobie-pod Silver Puffs

Other Flowering Plants:

Rare Wildlife or Rare Plants:

Project: Concentrix S	olar Project - Man	# 3 4 60	mes. C	A OCR Resident Survey # 1
	· —			4- QCB Protocol Survey# 6 of 5
TIME (24-hour)		Mnd (arginus)	% CC	<u></u>
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End 400	<u> </u>	3/5	Ç	Gloss parkty overcest drozelo shower
Habitat On-site (c-role): op	<u>en şoʻlis, hillilops, nd</u>	és, rock outc		clay soils, old roads, various nectar sources
Nymphalidae (Brushfoot	d Butterfles	खर ७ वेचर	Fotal	Hesperiidae (Skippers)
Euphydryas editha (Quin	o Checkerspoth	3-11-31-21-51		Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona		ot) 7 7	1,00	Erynnis tristis (Sad Duskywing)
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Chiosyne californica (Ca		- 		Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's		- 		
Phyciodes mylitta (Mylitta				Pyrgus elbescens (Checkered Skipper)
			—. . 	Hesperia jublir (Jubje Skipper)
Junonia coema (Commo			<u></u>	Polites sebuleti (Sandhill Skipper)
Venessa ennobella (Wea				Megathymidae (Giant Skippers)
Venessa etalenta (Red A				Megathymus yuccee (Yucca Giant Skipper)
Vanessa cardul (Paintee		. l		<u> </u>
Vanessa virginiensis (Vir				Other Butter Residence State S
Nymphalis californica (C				
Danaldae (Milkweed Butt		FF BEET SILE		Philosopa co tally
Danaus plexippus (Mona				Philosoph catallas //
Danaus gillppus (Queen		- 1	_	
Satyridae (Satyrs)			7,755	1
Coenonympha californic	(Common Californ	ia Ringlet)		· -
Plenidae (Whites, Sulphu		製造性(1939)	5 () () () () () () () () () (- · · - †
Pieris rapae (Cabbage V				T*"
Pontio sisymbrii (Spring l				- · · · · · · · · · · · · · · · · · ·
Pontia bockarii (Beker's 1				-
Pontia protodice (Commi	on White) /	14441	1 1	
Anthochen's sara (Sara (Prangetip)	17		
Anthochens cethura (Fel	der's Orangetip)	1	 -	
Euchice hyantis (Desert	Pearly Marble)	[· "-	
Colles eurytheme (Orang	e Sulphur)	- 177		
Collas harfordii (Harford:	Sulphur) / [#] /V	145	11-	
Nathells inte (Dainty Sul)		+ 777		
Papilionidae (Swallowta)	BIV (Section Access of the	COM RESPONSE		Notes: 140 254 255 711 2 284 2 2 3 4 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
Papilio polyxenes (Dese	t Black Swallowtell)	Section and the second		
Papilio eurymodon (Pale		-\-		SV3. unit Track
Papilio rutulus(Western		- \ -	── ` 	interrupted by low
Riodiniade (Metabiigrice)		SEE OUT BUILD	ewegranger	batter -
Apadamia mormo (Behri	Moleimadi ///	44 / 14 / 1	SEENERAL	<u>,</u>
Lycsenidae (Hairstreaks	and Riving	<u>"(</u>	XXXX 12-6	4
Celestrine ladon (Spring		werty Mil	50 000 (30°)	<u> </u>
Leptoles marine (Marine				_
Brephidium exile (Weste	n rygmy Blue)		· <u> </u>	
Glaucopsyche lygdamus	(Southern Blue/Silv	ery blue		·
Hemiergus ceraunus (Ec				
Icana acmon (Acmon Blu		1.	_ 3/1	
Philotes sonorensis (Sor				
Callophrys augustinus (B				
Callophrys perplexa (Per	plexing Green Hairs	treak)		
Strymon metinus (Gray I				T · - +
	1	— • ·	——-: —	·
Atlides halesus (Great P	urpl e Hairstreak)	- 1	Ί	

stential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) structions.

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Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	WC COMMISSO CONCORDE ECC. (
o Amsinckie menziesii	Rancher's Fiddleneck
Antinhimum coulterianum	Coulter's Snepdragon
antiminum nuttellianum	Nuttall's Snapdragon
Ascieples fescicularis	Narrow-leaf Milkweed
o Boechera so.	Rock Cress
o Calandrinie cilieta	Red Maxis
o Calochortus concolor	Golden-bowl Maripose July
Callystogia langipes Cantissonia sp	Morning-glory
Ostricamissonia sp.	Stun Cup
o Gesonela exerca	Paintbrush
o Caulenthus haterophyllus	
Caulanthus simulans	Payson's Caulenthus
Ceanolinus cuneatus	Buck Brush
o Ceenothus greggii	Cup-leaf-tilac
Ceanothus teucodernis Chaenactis artemisifolia	Chapanal Whitethorn
Onestacuts unamismone	White Pincushion
Chaenactis glabriuscuta Clematis sp.	Yellow Pincushion
Comerce Services	Clematis
 Collinsia concolor Cordylanthus rigidus 	Southern Chinese Houses
A Companie soldania	Dark-tip Bird's Beak
Coreopsis cultiomica Corethrogyne fileginifolie	California Coreopsis
Cryplanine sp	Common Sand-aster
Cucurbita foetidissima	Cryplantha San San San San San San San San San Sa
o Descurainie sp	Celabazilla - water a celebra messa as at anace a
Dicentre chrysantha	Colden See description
Ochelostemma capitalium	Golden Ear-drops
o Dudleya sp.	Dudleys
Emmenanthe pendulifera	1866 and Bank Co. 1986 Co.
Encements sp	Coldonbush Transition Company
a Engeron foliosus	Leafy Daisy
	Harry Yelba Santa
 Eriogonum fasciculatum 	Inland California Buckushasa
o Enogonum sp	Bucksheat 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Erlophyilum sp.	Golden-yarrow
Erodium cicularium	Red stem Storksbill
 Erysismum capitatum 	Western Walflower
o Eschscholzie californica	California Poppy
5 Eucrypta chrysanthemitolia	Spotted Hidesped
The state of the s	Western Goldenrod
 Garrya vealchii 	Conunt Silk Tores
9 Gila sp	Gilla de la companya di alla de la Tital
 Gnaphalium 	Cudwaed
9 Guillenia lasiophylla	Celifornia Mustard
A CHARLEST OF STANDANGE	Mitorom Matchausad
o Heliotropium curassavicum	Salt Heliotrope
Hirshfeldie incane Lamium amplexicaule	Short-pod Mustard
4 Lamium amplexicatile	Hental Andrews
Layla glandulosa	White Layle
· Labraint St.	Metropropert
A Linenthus bellus	Descrit Beauty
 Linenthus dichotomus 	Evening Snow
o Lordcera subspicata	Johnston's Honeysuckle
Whitecoxility complified	California Dandelion
Monath resident	Cleveland's Malacothrix
a Marah macrocarpus	Wild-cucumber
Manublium vulgare	Horehound
o maiodana mamcanokias	Constant Pinesarde kanad
The state of the s	Veelch's Stick-leek
Microsteris gracilis Microsteris en	Stender Phlox
Atimultis sp. Nemophile menzeisil	MODICE TO SEE THE SEE
Orobanche bulbosa	Small-flower Baby Blue Eyes
The second section of the second seco	Chaparral Broom rape

Osmadenie tenelle	Osmadenia
Paeonia celifornica	California Peony
Peclocarya sp.	Pectocarya
	Phacella
 Pholistoma membranaceum 	White Flesta Flower
Plaglobothrys sp.	Popcomflower
Plentago patagonica	Desert Plantain
Platystemon californicus	Cream Cups
Pronus ilicifolia	Holly-leaf Cherry
Rafinesquia neomexicana	Desert Chicary
Ribes quercetorum	Oak Gooseberry
Rompa nastunium aquaticum	Water-cress
Rose californice	Californ a Rose
Sallugilla australis	Southern Gdia
 Senecio californicus 	California Huttenweed
Senecio Reccidus	Butterweed
Sidelces malveeling	Charles blocks
Sisymbrium sp	Tumble Mustard
Solidago californica	California Goldenrod
Stachys ejügöides	Hedge nettle
Stephanomeria sp	V9reathp(ant
Streptanthus campestris	Southern Jawelflower
Stylocline gnaphalloides	Everlasting Nest-straw
Totradymia comosa	Cotton-thorn
Thysanocamus sp.	Fringenod
Trichostemme parishii	Mountain Bluecards
Tropidocarpum gracile	Slender Dobie-pod
Uropappus lindleyl	Silver Puffs
Viola curpures	Oak Yellow Violet
	the state of the s

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新聞的問題與前籍也強致關門與同國門的自己,因此是 **N**ASSE SESSE STAGE LTD DELANDER DE

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Offier Flowering Plants: Astrogalis Astronomy

Filozo W<u>engweng</u> was to day to be allowed to Rare Wildlife or Rare Plants;

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet Recorder Zun B Add'l Person: GPS Unit / الايمان عنواني الم Concentrix Solar Project QCB Protocol Survey # palchy SWOTERS! dńzale 6210-4464 close polichy over cost drizzte STATEMENT . ರ್ಷಕ paidy Over casi %izzie dear patchy eworensi. drozie shower BIVOYALY overensi. Habitat On-site (circle): open soits, hilltops, ridges, rock cutcrops, soil crusts, clay soits, old toads rañose nectar sources Total Nymphalidae (Brushfooted Butterflies) Hesperlidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryus chałcedona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessella leanira (Wright's Checkerspo!) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Sleepy Duskeywing) Chlosyne gabbii (Gabb's Checkerspot) Pyrgus elbescens (Checkered Skipper) Phyciodes mylitta (Mylitta Crescent) Hosperia jubla (Jubia Skipper) Junania coenia (Common Buckeye) Polifes sabuleti (Sandh'il Skipper) Vanessa annabella (West Coast Lady) Megathymidae (Glant Skippers) Vanessa atalanta (Red Admiral) Megathymus yuccae (Yucca Glant Skipper) Vonessa cardui (Painted Lady) Vanessa virginiensis (Virginia Lady) Other Butlerflies Nymphalis callfornica (California Torloiseshell) Danakter (Milkweed Butterfiles) Danaus plexippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyrs) Coenonympha californice (Common California Ringlet) Pieridiae (Whites, Sciphurs) Pieris rapae (Cabbage White) Portis sisymbrii (Spring White) Pontia beckerii (Bekar's White) Pantia protodice (Common White) Anthocheris sera (Sara Orangetip) Anthocharis cethura (Feider's Orangetip) Euchice hyantis (Desert Pearly Maible) Colias eurytheme (Orange Sulphur) 10 Colles harfordii (Harford's Sulphur) 16 Nathalis Iolo (Dainty Sulphur) Papilionidae (Syvallovitalis) Papilio polyxenes (Desert Black Swalfowtail) Papilio eurymedon (Pate swallowtail) Pepilio rutulus(Western Tiger Swallowiail) Riodiniade (Metalmarka) Apodemia mormo (Bahr's Metaknark) ગ્રા Lycaenidae (Hairstreaks and Hipes) Colastrina ladon (Spring Azure) Loptotes marina (Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsyche tygdamus (Southern Blue/Silvery blue) Hemlargus ceraunus (Edward's Blue) Icana acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Elfin) Callophrys perplexa (Perplexing Green Halrstreak) Shymon melinus (Gray Heirstreak) Attides halesus (Great Purple Hairstreak)

.ctions:

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

· · · · · · · · · · · · · · · · · · ·	
Amslockia menziesii Rancher's Fiddleneck	
Antirrhimum coulterienum Coulter's Snapdragon	Osmadenie tenella Osmadenia
	Pagonia californica California Peony
The state of the s	Pectocarya sp. Peglocarya
	Phacella sp. Phacella
The state of the s	 Pholistoms membranaceum White Fiesta Flower
	Popouriflower Popouriflower
Calochartus concellor. Golden bowl Mariposa Lily	Plantago patagonica Desert Plantein
Calystogia tongipes	Platystamon californicus Cream Cups
e Camissonia sp. Sun Cup	o Prunus ilicifolia Holly-leaf Cherry
Castilleja exerta Paintbrush	O Refinesquia neomexicane Desert Chicory
Caulenthus heterophyllus San Diego Jewelflower	Ribes quercetorum Oak Gooscherry
 Caulanthus simulans Payson's Caulanthus 	P Romos nasturilum equaticum Water cross
Ceanothus conoctus Buck Brush	Rosa californica California Rose
Cup-leaf-filac Cup-leaf-filac	
Ceanothus leucoderatis Cheperral Whitethom	
 Chaenactis artemisifotia Vyhite Placushion 	
Chaenactis glebriuscula Yellow Pincushion	
Clematis sp. Clematis	Sidalcea malvaeflora Checker-bloom
o Collinate concolor Southern Chinese Houses	Sisymbrum sp., Tumble Mustard
Cordylanthus rigidus Dark-lip Bird's Beak	n Solidago californica California Goldenrod
Coreopsis californice California Coreopsis	Stechys ajugoides Hedge-nettle
Corethrogyne fileginifotta Common Sand-aster	 Stephanomeria sp. Wreathplant
o Cryptantha sp Cryptantha	Stroptanthus compostris . Southern Jewelflower
The state of the s	 Stylocline gnaphalioides Everlasting Nest-straw
	Telradymia comoss
	 Thysanocarpus sp. Fringepod
E	O Trichoslemma parishii Mountain Bluecuris
and the state of t	 Tropidocarpum gracile Siender Dobie-pod
o Emmenanthe pendulifera Whispening Bells	Oak Yellow Violet
© Erfestrum sp. Wooily-star	
Goldenbush Goldenbush	0
□ = Engeron foliosus Leefy Daisy	0 Other Flowering Plants:
P Enodiction trichocalyx Flavy Yerba Santa	5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
Erlogonum fasciculatum Inland California Buckwheat	BOOKS ASSESSED AND AND AND AND AND AND AND AND AND AN
Erlogonum sp. Buckymeat	a Paris Walander Production of the Control of the C
Enophyllum sp. Golden-yarrow	A Profession for the contract of the contract
Erfodium cicutanum* Red-stem Storkebill	and the comment of th
Erysismum capitatum Western Wallflower	
Eschscholzia californica California Poppy	B Company of the Comp
n Eucrypta chrysanthemifolia Spotted Hideseed	SAMEST VERSON DOWN TO JUNE 11 JOHN SAMES AND SAME
Euthamia occidentalis Western Goldentod	Rare Wildlife or Rare Plants:
 Garrya veatchii Canyon Silk Tasset 	territoria de la compania del compania del compania de la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania della compani
Gille	
○ Griaphalium Cuidweed	Enter Wetter, Man Constant of the surprise
6 Guillenia lesiophylia California Mustard	
U GUIRTEZIA SAMIRMA Room Matehanad	multiplication of the control of the
Melicifopium curessavicum Salt Helicifone	A CONTRACTOR OF THE PROPERTY O
Short-pod Mustard	FOR THE PROPERTY OF THE PROPER
o Lamium amplexicable A Henbury	
○ Lasinenia gracilis Common Goldfielde	Test to very constant of the second polymer to the second constant of the second c
o. Leyia glandulosa White Leyia	, Merikan Merika kikata sebah Milabah dan membangan belangga
○ Lepinium sp. Pennerwood	Provide With a conflict or configuration and account to the configuration of the configuratio
Linenthus belies Desert Beauty Tal	
Linenthus dichotomus Evening Snow	. 9
o Lonicere subspicete donnston's Honeysuckie	FERREST DESCRIPTION OF STREET
c Malecothrix californica California Dandelion	O
d Malacothrix clavelandii Cleveland's Malacothrix	
Marah mecrocurpus Wild-cucurnber	
	BOSE OF SELECTION AND SELECTION OF SELECTION
	i 0
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	: 4
The Company of the Co	[26] 1986年9月2日日間、1887年198日日本町内
	. 0
Nemophile menzeisii Small-flower Baby Blue Eyes	FRIEND TENEDONE CONTRACTOR CONTRACTOR
o Orobanche builbosa Chaparral Broom rape	

Ouino Checkerspot Butterfly Protocol Survey — Field Data Sheet GPS Unit / 🗢 Rev Sxn: Concentrix Solar Project Map #; QCB Protocol Survey # OVERTAIN والانداد dag *druzzki close ddygla Over CSS clare devatin OV9/03/8 drizzlo cloar dazzk Habitet On-site (circle): open soils, hithops rock outcrops, soil crusts, clay soils, old roads arious nectar sources Total Total Nymphalidae (Brushfooted Butterfiles) Hesperiidae (Skippers) Euphydryas edilha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryas chalcadona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalla leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californice (California Patch) Erynnis brizo (Sleepy Duskeywing) Chłosyne gebbii (Gebb's Checkerspot) Pyrgus albascens (Checkered Skipper) Phyclodes mylitta (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coenia (Common Buckeye) Polites sebuleti (Sandhill Skipper) Vanessa ennebella (West Coest Lady) Megathymidae (Giant Skippers) Vonessa etelante (Rod Admiral) Megethymus yuccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) Vanessa virginiensis (Virginia Lady) Other Butterflies. Nymphalis californica (California Tortolseshell) Dana(dec (Milkweed Butterflies) Daneus plexippus (Monarch) Danaus gilippus (Queen) Safyridae (Safyrs) Coenonympha californica (Common California Ringlet) Pleridae (Whitee, Sulphure) Fieris rapae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckeni (Boker's White) Pontia protodice (Common White) JЧ Anthocheris sere (Sara Orangelip) Anthocharis cethura (Felder's Orangelip) Euchice hyantis (Desert Pearly Marble) Colles eurytheme (Orange Sulphur) TO Colles herfordii (Harford's Sulphur) Nathalis Iole (Dainty Sulpher) Papilioridae (Swallowfalls) Notes Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pele swellowtail) Papilio rufulus(Western Tiger Swallowfail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) Lycaenidae (Hairstreaks and Blues) Celastrina ledon (Spring Azure) Lopioles marina (Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemlargus ceraunus (Edward's Blue) Icaria acmon (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Ellin) Callophrys perplexa (Perplexing Green Hairstreak) Strymon melinus (Gray Hairstreak) Allides halesus (Great Purple Hairstreak)

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet

Recorder: Bailbra Calanto-Saddi Person	_	Date: 04 /21 /2011 GPS Unit : _	7_
Project: Concentrix Solar Project Map #: 4, 2 Survey Sx	co	QCB Protocol Survey # of	5
Sian 045 640 0.2 7.0 5 145 60.2 5.3 15.8 6 60.8 3.4 4.1 6 60.8 3.4 4.1 6 67.2 9.7 8.2 1 645 67.2 9.6 10.1 13.8 10 67.1 2.1 8.4 16 67.1 2.1 8.4 16 67.1 2.1 8.4 16 67.1 2.1 8.4 16 67.1		Sky Clean parchy uncrease drozin shower Clean parchy overnast crezile shower Clear parchy overnast drozin shower Clear parchy overnast drozin shower Clear parchy overnast crezile shower Clear parchy overnast drozin shower Clear parchy overnast crezile shower Clear parchy overnast drozin shower	
Habitat On-site (circle): open seils, hil lops, ridges, rock outcrops, soi	i crusts d	ciam patety owness: dress shower [20 90/8 old reads warious parter sources	
Nymphalidae (Brushfootad Butterflies) Euphydryns editha (Quino Checkerspot) Euphydryns chalcedona (Henne's Checkerspot) Thessalia feanira (Winght's Checkerspot) Chlosyne californica (California Patch)	Yotal	Hesperlidae (Skippers) Erynnis funeralis (Funereal Duskywing) Erynnis tristis (Sad Duskywing) Erynnis propertius (Propertius Duskywing) Erynnis brizo (Sleepy Duskeywing)	Total
Chiosyne gabbii (Gabb's Checkerspot) Phyciodes myliita (Myliita Crescent) Junonia coenia (Common Buckeye) #** Vanessa annabella (West Coast Lady	5_	Pyrgus albescens (Checkered Skipper) Hesperia jubia (Jubia Skipper) Polites sebulati (Sandhill S×ipper) Megalhymidae (Giant Skippers)	<u> </u>
Vanessa alalanta (Red Admiral) Vanessa cardui (Painted Lady) Vanessa virginiansis (Virginia Lady) Nymphalis californica (California Tortoiseshell)	-	Other Sutterfles:	
Danaldae (Milkweed Butterflies) Danaus piexippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyre)		ant d.d	
Coenonympha californica (Common California Ringlet) Pieridae (Whites, Sulphurs) Pieris rapee (Cabbege White) Pontia sisymbni (Spring White) Pontia beckeni (Beker's White)			
Pontia protodice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cathura (Felder's Orangetip) Euchice hyantis (Desert Pearly Marble) Cotias eurythema (Orange Sulphur)	<u> </u>		
Colias harfordii (Harford's Sulphur) Narhalis iole (Dainty Sulphur) Papillonidae (Swallowtails) Papillo polyxerios (Oesert Black Swallowtail)		Notes:	
Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Behr s Metalmark)	<u> </u>	WET) WET WET WET	
Lycaenidae (Hairstreaks and Blues) Celashina ladon (Spring Azure) Leptoles marina (Marine Blue) Brephidium exile (Western Pygmy Blue)		MODU WE MIS CARTON	
Glaucopsyche lygdamus (Southern Blue/Silvery blue) Herniargus ceraunus (Edward's Blue) Icania serron (Acmon Blue) Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Elfin)	· .	tense 112 ar à	
Calibrarys augustants (Brown Ellin) Cellophrys perplexa (Perplexing Green Hairstreak) Strython molinus (Gray Hairstreak) Athdes helesus (Greet Purple Hairstreak)			- <u> </u>

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Amsinckia menziasii Rancher's Fiddleneck Antirrhimum coulterianum Coulter's Snapdragon Antinhinum nuttallisnum Nuttall's Snapdragon Asclopias fasciculans Narrow-leaf Milkweed Boochera so Rock Cress Calendrinia ciliata Red Maids Calochortus concolor Golden-bowl Mariposa Lily Calystegra fongipes: Marning-glory Camissonia sp. Sun Cup Paintbrush Castilleja exerta Caulanthus heterophylius San Diego Jewelflower Caulanthus simulans Payson's Caulanthus Ceanothus cuneatus Buck Brush Ceanothus prepair Cup-leaf-lilac Ceanothus leucodermis Chaparral Whitethorn Chaenactis artemisiifolia. White Pincushion Chaenactis glabriuscula Yellow Pércushion Ciomatia Clomatis sp. Collinsia concolor Southorn Chinese Houses Cordylanthus rigidus Dark-tip Bird's Beak Coreopsis californica California Coreopsis Corethrogyne filaginifolia Common Sand-aster Cryptantha sp. Cryptantha Cucurbita foetidissima Catabazilla Tansy-mestard Descurainia sp. Dicentra chrysantha Golden Ear-drops Dichelostemma capitatum Blue Oicks Dudleya sp. Cudleva ŧ, Emmenanthe pendulitera Whispering Bells Woolly-star Eriastrum sp. Ericamena sp. Goldenbush Erigeron fakasus Leafy Daisy Eriodictyon trichocatys: Hairy Yerba Santa Inland California Buckwheat Eriogonum fasciculatum Eriogonum sp. **Aurkyteat** Eriophyllum sp. Golden-varrow Eredium cicutarium* Red-stem Storksbill Erysismum capitatum Western Walffower Eschacholzia californica Catifornia Poppy Eucrypta cwysanthemifoliai Spotted Hideseed Euthamia occidentalis Western Goldenrod Gerrya veatchii Canyon Silk Tasset Gilia Gulia so Gnadtalium Cudweed o Guillenia tasiophylla California Mustard Gutierrezia sarothrae Broom Matchweed Heliotropium curassavicum Salt Heliotrope Hirshfeldia incana Short-pod Mustard Hookil. Lamium amplovicaulo Lasthenia gracilis Common Goldfields ∕Layia glandulosa. White Lavia Lepidium sp. Pepperweed Linanthus bellus Desert Beauty Linanthus dichotomus Evening Snow Lonicara subspicate Johoston's Honeysockle Malacothrix californica California Dandellon o Malacothrix clevelandii Cleveland's Malacothrix Wold-cucumber Mareh macrocarpus Marrubium vulgare* Horehound. Mairicario matricarioldes* Common Pineapple-weed Veatch's Stick-leak Mentrelia veatchiana Microsteris gracilis Slender Phlox Mimalus sp. Monkeyllower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nemophila menzeisii

Orobanche bulbosa

Osmadonia tenella Osmedenia Paganta californica Cali fornia Peorry Pectocarya sp. Pectocarya Phecelia sp. White Flesta Flower Pholistoma membranaceum Plagiobothrys sp. Popourn/lower Desert Plantain Plantago palagonica ċ Platystemon californicus Cream Cups Prunus dicitolia Holly-leaf Cherry Rafinėsquia neomexicana Desert Chicary Ribes quercetorum Oak Gooseberry Rorripa nasturtium-aqueticum Water-cress Rosa californica California Rose c Saltugille eustralis Southern Gitia a Sénecia californique California Butterweed o Senecio lieccidus Butterweed ð Sidalcea malvaellora Checker-bloom e. Sisymbrium sp Tumble Mustard Solidago californica California Goldenrod c ü Stachys ajugoides Hedge-nettle э Stephanomeria sp. Wreathplant Streptanthus campestris Southern Jewelflower Stylocline gnaphalioides Everlasting Nest-straw Tetradymia comosa ō Cotton-thorn э Thysanocarous sp. Fringepod Trichostomma panshir ō Mountain Bluecuris 'n. Tropidocarpum gracile Stender Doble-pod oUropeppus lindleyi Silver Pulls o Viota purpurea Oak Yellow Violet u ٥ Other Flowering Plants: Lupin Sp. Lucy Conall and Lupin Sp. Low growing Ġ. œ. o ð ø Rare Wildlije or Rare Plam - SD blacktailed postrafting 20 int - SD world homed in a - France Falcon I and forted ٥ c 15 o n :1 6) 0 ¢ o ø G c Ľ,

APPENDIX D POTENTIAL NECTARING SOURCES AND HOST PLANTS DETECTED DURING QUINO SURVEYS

APPENDIX D POTENTIAL NECTARING SOURCES AND HOST PLANT SPECIES DETECTED DURING QUINO SURVEYS^A

			Su	rve	/ We	ek	
Scientific Name	Common Name	1	2	3	4	5	6
Amsinckia menziesii	rancher's fiddleneck	X	X	X	X	X	Х
Boechera pulchra	beautiful rock cress	X	X	X	X	X	Х
Calandrinia ciliata	red maids			X	X	X	
Calystegia longipes	morning-glory				X	X	
Camissonia sp.	sun cup	Х	Х	Х	Х	Х	Х
Castilleja subinclusa	Indian paintbrush					Х	
Caulanthus affinis	Indian paintbrush	Х	Х				
Caulanthus heterophyllus	San Diego jewelflower			Х	Х	Х	
Caulanthus simulans	Payson's caulanthus	Х					
Ceanothus cuneatus	buck brush	х	Х		Х		
Ceanothus greggii	cup-leaf lilac	х	Х	Х	Х	Х	Х
Ceanothus leucodermis	chaparral whitethorn		Х	Х			
Chaenactis glabriuscula	yellow pincushion						Х
Clematis sp.	clematis	х		х		Х	Х
Collinsia concolor	southern Chinese houses ^B		х			Х	Х
Cordylanthus rigidus	dark-tip bird's beak			Х			
Coreopsis californica	California coreopsis	х	Х	X	Х	Х	Х
Corethrogyne filaginifolia	common sand-aster))
Cryptantha sp.	cryptantha	х	Х	Х	Х	Х	>
Descurainia sp.	tansy-mustard	X	X	X	X	X)
Dichelostemma capitatum	blue dicks	^	X	^	^	X))
Dudleya sp.	dudleya		^			^)
Emmenanthe pendulifera	whispering bells			Х))
Eriastrum sp.	woolly-stars		х	X			X
Ericameria sp.	goldenbush	х	X	X	х	х	X
Erigeron foliosus	leafy daisy	^	^	^	^	^	
Eriodictyon trichocalyx	hairy yerba santa			Х			X
Eriogonum fasciculatum	inland California buckwheat		~	+			X
	buckwheat		X	X		X	X
Eriogonum sp.	· ·				X	X	Х
Eriogonum wrightii	bastardsage		-	X			<u> </u>
Eriophyllum confertiflorum.	golden-yarrow		X	X	X	X	Х
Erodium cicutarium	red-stem storksbill	Х	X	X	X	X	Х
Erysismum capitatum	western wallflower					X	
Eschscholzia californica	California poppy	X	X	X	X	X	X
Eucrypta chrysanthemifolia	spotted hideseed	X		X			
Garrya veatchii	canyon silk tassel	X	X	X	X)
Gilia sp.	gilia			Х	Х	Х)
Gnaphalium sp.	cudweed)
Guillenia lasiophylla	California mustard	X				X	
Gutierrezia sarothrae	broom matchweed			X	X	X	Х
Heliotropium curassavicum	salt heliotrope				X	X	
Hirshfeldia incana	short-pod mustard	X	X	X	X	X)
Lasthenia gracilis	common goldfields	Х	X	X	X	X)
Layia glandulosa	white layia	Х	X	X	X	X)
Lepidium sp.	pepperweed			X	X	X)
Linanthus bellus	desert beauty	Х	Х	Х	Х	Х)
Lupinus bicolor	miniature lupine					Х	

			Su	rve	/ We	ek	
Scientific Name	Common Name	1	2	3	4	5	6
Lupinus concinnus	bajada lupine			Х		Х	
Linanthus dichotomus	evening snow				Х	Х	
Lonicera subspicata	Johnston's honeysuckle			Х			Х
Malacothrix californica	California dandelion			Х		Х	Х
Marah macrocarpus	wild-cucumber					Х	
Marrubium vulgare	horehound						Х
Matricaria matricarioides	common pineapple-weed	Х					
Mentzelia veatchiana	Veatch's stick-leak						Х
Mimulus sp.	monkeyflower				Х		Х
Nemophila menzeisii	small-flower baby blue eyes	Х	Х	Х		Х	
Orobanche bulbosa	chaparral broom-rape						Х
Osmadenia tenella	osmadenia				Х		
Paeonia californica	California peony		Х				
Pectocarya sp.	pectocarya	Х	Х	Х	Х	х	Х
Phacelia sp.	phacelia	Х	Х	Х	Х	Х	Х
Phacelia distans	distant phacelia			Х			
Pholistoma membranaceum	white fiesta flower						Х
Plagiobothrys sp.	popcornflower	Х	Х	Х	Х	Х	Х
Rhus ovata	sugar bush		Х	Х	Х	Х	Х
Rhus trilobata	skunkbush sumac	Х					
Platystemon californicus	cream cups			Х	Х	Х	
Prunus ilicifolia	holly-leaf cherry		Х	Х			
Ribes quercetorum	oak gooseberry			Х			Х
Senecio californicus	California butterweed	Х	Х	Х	Х	Х	Х
Sisymbrium sp.	tumble mustard	Х	Х	Х	Х	Х	Х
Solidago californica	California goldenrod					Х	Х
Streptanthus campestris	southern jewelflower			Х		Х	
Stylocline gnaphalioides	everlasting nest-straw		Х	X	Х	Х	Х
Thysanocarpus sp.	fringepod	Х		X			Х
Trichostemma parishii	mountain bluecurls		Х			Х	Х
Uropappus lindleyi	silver puffs		Х	Х	Х		Х

The Quino checkerspot butterfly survey area (within Rugged Solar) was initially part of a larger survey area that was separated into three separate projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino surveys. LanWest Solar Farm is located adjacent to the proposed project (on the western boundary of LanEast). Rugged Solar Farm is located directly north of Interstate 8. All three project sites were surveyed at the same time for Quino and, therefore, the weekly potential nectaring and host plant species detected list is the same for all three project sites.

B This host plant was not found on LanEast, and only found on Rugged Solar.

Bold = potential Quino larval host plant species.

APPENDIX E VERTEBRATE WILDIFE SPECIES DETECTED DURING QUINO SURVEYS

APPENDIX E VERTEBRATE WILDLIFE SPECIES DETECTED DURING QUINO SURVEYS^A

Scientific Name	Common Name
REPTILES	·
Order Squamata	Lizards and Snakes
Family Phrynosomatidae	
Uta stansburiana	side-blotched lizard
Sceloporus occidentalis	western fence lizard
Sceloporus orcutti	granite spiny lizard
Phrynosoma coronatum blainvillii ^B	coast horned lizard
Family Teiidae	Codot Horrica Hzara
Aspidoscelis hyperthya beldingi ^B	Belding's orange-throated whiptail
Cnemidophorus tigris	western whiptail
Family Anguidae	western wniptan
Elgaria multicarinata	southern alligator lizard
	southern alligator lizard
Family Colubridae	
Pituophis catenifer	gopher snake
Masticophis lateralis	striped racer
BIRDS	Harana Charles Ibiras and Dalatinas
Order Ciconiiformes	Herons, Storks, Ibises, and Relatives
Family Cathartidae	A contract contracts
Cathartes aura Order Falconiformes	turkey vulture
Family Accipitridae	Diurnal Birds of Prey
Accipiter cooperii ^C	Cooper's hawk
Buteo jamaicensis	red-tailed hawk
Buteo swainsoni ^D	
Falco mexicanus ^C	Swainson's hawk
Falco mexicanus Falco sparverius	prairie falcon
Order Galliformes	American kestrel Magapodes, Curassows, Pheasants, and
Order Gaillotties	Magapodes, Curassows, Pheasants, and Relatives
Family Odontophoridae	T. C. C. C. C. C. C. C. C. C. C. C. C. C.
Callipepla californica	California quail
Order Charadriiformes	Shorebirds, Gulls, and Relatives
Family Charadriidae	
Charadrius vociferus	killdeer
Order Columbiformes	Pigeons and Doves
Family Columbidae	
Zenaida macroura	mourning dove
Order Apodiformes	Hummingbirds and Swifts
Family Trochilidae	
Calypte anna	Anna's hummingbird
Calypte costae	Costa's hummingbird
Order Piciformes	Woodpeckers
Family Picidae	
Melanerpes formicivorus	acorn woodpecker
Picoides scalaris	ladder-backed woodpecker
Colaptes auratus	northern flicker
Order Passeriformes	Song birds
Family Tyrannidae	
Myiarchus cinerascens	ash-throated flycatcher
Sayornis nigricans	black phoebe
Sayornis saya	Say's phoebe
Tyrannus verticalis	western kingbird
Tyrannus vociferans	Cassin's kingbird
Empidonax hammondii	Hammond's flycatcher

Scientific Name	Common Name
Family Laniidae	
Lanus Iudovicianus ^B	loggerhead shrike
Family Vireonidae	
Vireo huttoni	Hutton's vireo
Vireo gilvus	warbling vireo
Family Corvidae	
Aphelocoma californica	western scrub jay
Corvus corax	common raven
Family Paridae	
Baeolophus inornatus	oak titmouse
Family Alaudidae	
Eremophila alpestris	horned lark
Family Aegithalidae	
Psaltriparus minimus	bushtit
Family Troglodytidae	
Thryomanes bewickii	Bewick's wren
Troglodytes aedon	house wren
Family Sylviidae	
Polioptila caerulea obscura	blue-gray gnatcatcher
Family Turdidae	
Sialia mexicana	western bluebird
Family Timaliidae	
Chamaea fasciata	wrentit
Family Regulidae	
Regulus calendula	ruby-crowned kinglet
Family Mimidae	
Toxostoma redivivum	California thrasher
Family Sturnidae	
Sturnus vularis	European starling
Family Parulidae	
Dendroica coronata	yellow-rumped warbler
Dendroica nigrescens	black-throated gray warbler
Vermivora celata	orange-crowned warbler
Family Emberizidae	
Chondestes grammacus	lark sparrow
Passerculus sandwichensis	savannah sparrow
Amphispiza belli	sage sparrow
Amphispiza bilineata	black-throated sparrow
Spizella passerina	chipping sparrow
Spizella breweri	Brewer's sparrow
Pipilo crissalis	California towhee
Pipilo maculates	spotted towhee
Junco hyemalis	dark-eyed junco
Zonotrichia leucophrys	white-crowned sparrow
Pooecetes gramineus	vesper sparrow
Family Icteridae	
Sturnella neglecta	western meadowlark
Icterus bullockii	Bullock's oriole
Family Fringillidae	
Spinus psaltria	lesser goldfinch
MAMMALS	
Order Lagomorpha	Rabbits, Hares, and Pikas
Family Leporidae	
Sylvilagus audubonii	Audobon's cottontail
Lepus californica bennettii ^B	San Diego black-tailed jackrabbit

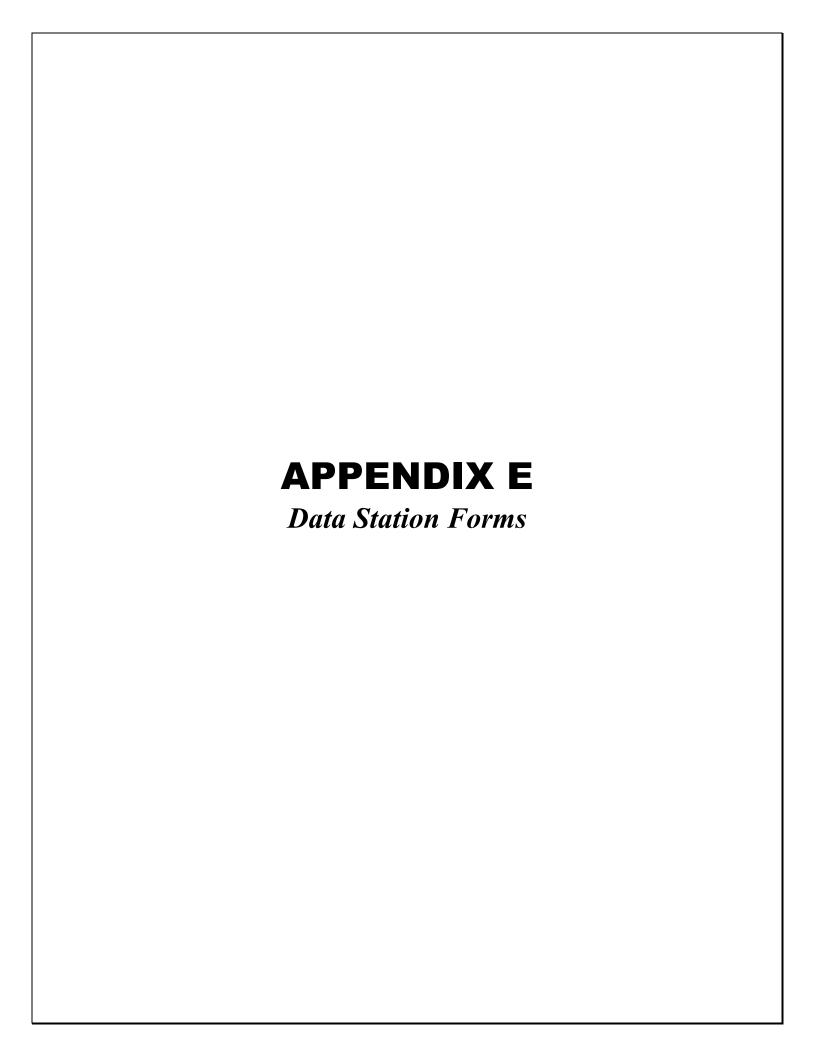
Scientific Name	Common Name
Order Rodentia	Rodents
Family Scuiridae	
Spermophilus beecheyi	California ground squirrel
Family Muridae	
Neotoma sp.	woodrat (house)
Order Carnivora	Carnivores
Family Canidae	
Order Artiodactyla	Even-toed Ungulates
Family Cervidae	
Odocoileus hemionus	mule deer

A The Quino checkerspot butterfly (Euphydryas editha quino) survey area (within the Rugged Solar project site) was initially part of a larger survey area that was separated into three separate projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino surveys. Rugged Solar Farm is located directly north of Interstate 8. LanEast Solar Farm is located adjacent to LanWest (on the eastern boundary of LanWest). All three sites were surveyed for Quino at the same time. This list of vertebrate wildlife species detected represents species detected for the Rugged Solar Project.

State species of special concern (State of California 2011)

State special animal (State of California 2011)

State threatened or endangered species



Project/Site: Rough Acres Ranch			City/C	ounty:Bou	levard/S	an Diego Cou	inty S	ampling Date	6/10/08	
Applicant/Owner: Hamann Companie	S					State:CA	S	ampling Point	: 1	
Investigator(s): Mike Howard/Travis	Smith		Section	on, Townsh	ip, Range	:Live Oak Sp	rings, 16	5E/17S/7		
Landform (hillslope, terrace, etc.):			Local	relief (con-	cave, con	vex, none):non	ie	S	lope (%):()	
Subregion (LRR):C - Mediterranean (California	Lat:32°	41' 33	N	L	ong:116° 116′	59W	 Da	tum:	
Soil Map Unit Name: Loamy Alluvial	Land					NWI c	lassificati	on: PEMC		
Are climatic / hydrologic conditions on the	he site typical for this	time of ye	ear? Y	es 📵	No 🔘	(If no, expla	in in Ren	narks.)		
		ignificantly				rmal Circumsta	nces" pre	sent? Yes	No ($\overline{}$
	, , ,	aturally pro				ed, explain any				
SUMMARY OF FINDINGS - A									eatures, (etc.
								•		
Hydrophytic Vegetation Present? Hydric Soil Present?	_	o ()		Is the Sar	mnled Ar	02				
Wetland Hydrology Present?	_			within a \	-		s (•)	No 🔘		
Remarks: Sample is in the middle	_		rently				_	110		
VEGETATION Tree Stratum (Use scientific names.		Absolute % Cover		nant Indica		ominance Tes				
1						hat Are OBL, F			1 (A	۹)
2					т	otal Number of	Dominan	t		
3					S	pecies Across /	All Strata:		1 (E	3)
4					Р	ercent of Domir	nant Spec	cies		
Sapling/Shrub Stratum	Total Cover	: %			T	hat Are OBL, F.	ACW, or	FAC: 1(0.00 % (A	4/B)
1.					P	revalence Inde	ex works	heet:		
2.						Total % Cov	er of:	Multi	ply by:	
3.			11		c	BL species		x 1 =	0	
4.		-			F	ACW species	90	x 2 =	180	
5.					F	AC species		x 3 =	0	
Llaub Chuah um	Total Cover	: %				ACU species	1	x 4 =	4	
Herb Stratum		_	NI.	D. OW.		PL species	1	x 5 =	5	
1.Distichlis spicata 2.Juncus mexicanus		5	No	FACW	C	olumn Totals:	92	(A)	189	(B)
3. Erodium cicutarium		85	Yes No	FACW UPL		Prevalence	Index =	B/A =	2.05	
4. Sisymbrium altissimum		1	No	FACU	— н	ydrophytic Ve	getation	Indicators:		
5.					>	✓ Dominance	Test is >5	50%		
6.					>	Prevalence	Index is ≤	3.0 ¹		
7.								ntions ¹ (Provid		g
8.					_			r on a separa		
	Total Cover	92 %				Problematic	Hydropn	ytic Vegetation	n (Explain)	
Woody Vine Stratum					11	ndicators of hy	dric soil :	and wetland h	ovdrology m	nict
1				 -		pe present.	unc son a	and welland i	lydrology III	usi
2	Total Cover					ydrophytic				
					V	egetation			_	
% Bare Ground in Herb Stratum	5 % % Cover	of Biotic C	Crust _	%	P	resent?	Yes (No (C	
Remarks:										

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) Texture³ (inches) Type¹ Loc² Remarks 0 - 187.5 YR 4/1 98 7.5 YR 4/6 2 C RC Sandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Rough Acres Ranch		City/Co	ounty:Boulevar	d/San Diego Cour	nty Sar	mpling Date:	6/10/08	
Applicant/Owner: Hamann Companies				State:CA	 Sar	npling Point:	2	
Investigator(s): Mike Howard/Travis Smith		Section	n, Township, Ra	nge:Live Oak Spr	 ings, 16E	E/17S/2		
Landform (hillslope, terrace, etc.):		Local	relief (concave,	convex, none):none	;	Slo	pe (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	41' 33	N	Long:116°116' 5	9W	——— Datı	um:	
Soil Map Unit Name: Loamy Alluvial Land				_	assification	n: PEMC		
Are climatic / hydrologic conditions on the site typical for the	nis time of ve	ear? Ye	es (•) No (
	significantly			"Normal Circumstan) No	
	naturally pro			eeded, explain any a	•	_	, 140	\circ
SUMMARY OF FINDINGS - Attach site map			,			ŕ	atures.	etc.
_	No 🔘		31.		,			
	No (Is the Sample	d Area				
	No O		within a Wetla		•	No 🔿		
VEGETATION								
Tree Stratum (Use scientific names.)	Absolute % Cover	Domir Speci	nant Indicator es? Status	Dominance Test				
1.				Number of Domin That Are OBL, FA			2	(A)
2.				-		•		` '
3.	_			Total Number of D Species Across A		,	2.	(B)
4.				Percent of Domina	ant Chaoic			
Total Cov	er: %			That Are OBL, FA		_	0.0 %	(A/B)
Sapling/Shrub Stratum				Prevalence Index	, worksho			
1. 2.	_			Total % Cove		Multip	ly by:	
3.				OBL species	5	x 1 =	5	
4.				FACW species	67	x 2 =	134	
5.				FAC species	3	x 3 =	9	
Total Cove	er: %			FACU species	10	x 4 =	40	
Herb Stratum				UPL species	10	x 5 =	50	
1. Distichlis spicata	_ 2	No	FACW	Column Totals:	95	(A)	238	(B)
2. Juncus mexicanus	65	Yes	FACW	- Decorate and	la dav. D	/^	0.51	
3. Erodium cicutarium	5	No	UPL	Prevalence			2.51	
4-Sisymbrium altissimum	_ 10	No	FACU	Hydrophytic Veg X Dominance T				
5.Ambrosia psilostochya		Yes	FAC	× Prevalence Ir				
6.Heliotropium curassavicum		No	OBL	Morphologica			supporti	na
7-Melititus indica		No	FAC			on a separate		9
8- <u>Hordeum murinum ssp. glaucum</u> Total Cove	5	No	UPL	Problematic F	Hydrophyti	c Vegetation	¹ (Explain	1)
Woody Vine Stratum	er: 95 %							
1.				¹ Indicators of hyd be present.	ric soil an	d wetland hy	ydrology i	must
2								
Total Cove	er: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 5 % % Cove	er of Biotic C	Crust _	%	Present?	Yes 💿	No (
Remarks:				_				

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) Texture³ (inches) Type¹ Loc² Remarks 0-16 7.5 YR 4/1 88 7.5 YR 4/6 2 C RC Sandy loam 7.5 YR 4/2 10 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks:

Project/Site: Rough Acres Ranch		City/C	ounty:Boulevar	d/San Diego Coun	ty Sa	mpling Dat	te: 6/10/08	
Applicant/Owner: Hamann Companies				State:CA	Sa	mpling Poi	nt: 3	
Investigator(s): Mike Howard/Travis Smith		Section	on, Township, Ra	ange:Live Oak Spri	ngs, 16	E/17S/7		
Landform (hillslope, terrace, etc.):		Local	relief (concave,	convex, none):none			Slope (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	-		Long:116° 116' 5	9W		atum:	
Soil Map Unit Name: Loamy Alluvial Land		11 30	511	_		n: PEMC		
	- C t	0 . \/	O N- C					
Are climatic / hydrologic conditions on the site typical for this								
	significantly			"Normal Circumstand	•		\sim	0
Are Vegetation Soil or Hydrology r	naturally pr	oblema	atic? (If no	eeded, explain any ar	nswers ir	n Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	showing	sam	pling point le	ocations, transe	cts, in	portant	features,	, etc.
V C N								
	o		la tha Camania	J A				
	0 (Is the Sampled		\circ	No (•)		
Remarks: Although soils and hydrology are present,		s funci	within a Wetla		land 7		as neolioik	ole .
biological function or value as wetlands an								
not meet CDFG or County wetland criteria		or supp			эрсстоя	11101010		4000
,								
VEGETATION								
	Absolute	Domi	nant Indicator	Dominance Test	workshe	et:		
Tree Stratum (Use scientific names.)	% Cover	Spec	ies? Status	Number of Domina	nt Spec	ies		
1				That Are OBL, FA	CW, or F	AC:	0	(A)
2				Total Number of D	ominant			
3				Species Across All	Strata:		2	(B)
4	_			Percent of Domina	nt Speci	es		
Total Cove Sapling/Shrub Stratum	r: %			That Are OBL, FAG	CW, or F	AC:	0.0 %	(A/B)
1.				Prevalence Index	worksh	eet:		
2.				Total % Cover			Itiply by:	
3.			<u></u>	OBL species	2	x 1 =	2	-
4.				FACW species	10	x 2 =	20	
5.				FAC species	3	x 3 =	9	
Total Cover	r: %		 -	FACU species	15	x 4 =	60	
Herb Stratum				UPL species	24	x 5 =	120	
1.Distichlis spicata	5	No	FACW	Column Totals:	54	(A)	211	(B)
2.Juncus mexicanus	5	No	FACW			7.40		
³ ·Erodium cicutarium	15	Yes	UPL	Prevalence I			3.91	
⁴ ·Sisymbrium altissimum	15	Yes	FACU	Hydrophytic Vege				
5.Brassica nigra	2	No	UPL	Dominance Te				
6.Heliotropium curassavicum	2	No	OBL	Morphological			ido supporti	ina
7.Melititus indica	3	No	FAC	data in Rer				ng
8-Hordeum murinum ssp. glaucum	7	No	UPL	Problematic H	ydrophy	tic Vegetati	on¹ (Explain	1)
Total Cover Woody Vine Stratum	r: 54 %							
1.				¹ Indicators of hydr	ic soil a	nd wetland	hydrology i	must
2.				be present.				
Total Cover	r: %			Hydrophytic			_	_
% Bare Ground in Herb Stratum 45 % % Cover	r of Biotic (Prijet.	0/	Vegetation Present?	Yes () No	•	
	or blotte (Jiust —	<u></u>	i lesent!	162 () 110	•	
Remarks:								

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) Texture³ (inches) Type¹ Loc² Remarks 0 - 207.5 YR 4/1 97 7.5 YR 4/6 3 C RC Loamy sand ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks:

Project/Site: Rough Acres Ranch			City/C	ounty:]	Boulevar	d/San Diego Co	unty S	Sampling Dat	te: <u>6/10/08</u>	
Applicant/Owner: Hamann Companies						State:CA	\$	Sampling Poi	int: 4	
Investigator(s): Mike Howard/Travis Smith			Sectio	on, Tow	nship, Ra	nge:Live Oak Sp	orings, 1	6E/17S/7		
Landform (hillslope, terrace, etc.):			Local	relief (concave,	convex, none):no	ne		Slope (%):())
Subregion (LRR):C - Mediterranean Californ	nia	Lat:32°	41' 33	3N		Long:116°116'	59W	D	atum:	
Soil Map Unit Name: Loamy Alluvial Land						NWI	classifica	tion: PEMC		
Are climatic / hydrologic conditions on the site ty	pical for this	time of ve	ear? Ye	es 🕡	No ((If no, expl	ain in Re	marks.)		
Are Vegetation Soil or Hydrology		nificantly			~	"Normal Circumsta		,	No	
Are Vegetation Soil or Hydrology		turally pro				eeded, explain any			\sim	
SUMMARY OF FINDINGS - Attach s	_									otc
SUMMART OF FINDINGS - Attach's	ille map si	lowing	Salli	piiig	politi	ocalions, trans	56613, 1	пропап	Teatures	, etc.
Hydrophytic Vegetation Present? Yes	No									
Hydric Soil Present? Yes				Is the	Sample	d Area				
Wetland Hydrology Present? Yes		•		withi	n a Wetla	nd? Ye	s 💿	No 🔘		
Remarks: Only sampled vegetation to ver	if y edge of	wettand.								
VEGETATION										
To Otrobos (Use estatification)		Absolute			ndicator	Dominance Tes	st works	heet:		
Tree Stratum (Use scientific names.) 1.	_	% Cover	Spec	ies? _	Status_	Number of Dom That Are OBL, F			1	(A)
2.						- - Total Number o	f Domina	nt		
3.						Species Across			1	(B)
4.						Percent of Dom	inant Spe	cies		
Sapling/Shrub Stratum	Total Cover:	%				That Are OBL, F			100.0 %	(A/B)
1.						Prevalence Ind	ex works	sheet:		
2.						Total % Co			Itiply by:	
3.						OBL species		x 1 =	0	
4.						FACW species	82	x 2 =	164	
5.						FAC species		x 3 =	0	
	Total Cover:	%				FACU species	5	x 4 =	20	
Herb Stratum		_				UPL species	12	x 5 =	60	
1.Distichlis spicata		2	No		ACW	Column Totals:	99	(A)	244	(B)
2 Juncus mexicanus		80	Yes		ACW	Prevalenc	e Index :	= B/A =	2.46	
3. Erodium cicutarium		2	No		PL	Hydrophytic Ve				
4-Sisymbrium altissimum 5-Hordeum murinum ssp. glaucum		5	No No		ACU PL	× Dominance	_			
6.		10	110		rL	× Prevalence				
7.								ations1 (Prov	ide support	ing
8.						data in F	Remarks	or on a sepa	rate sheet)	
	Total Cover:	99 %				Problemation	Hydroph	nytic Vegetat	ion ¹ (Explair	า)
Woody Vine Stratum		77 %								
1						Indicators of hybe present.	dric soil	and wetland	hydrology	must
2										
	Total Cover:	%				Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 5 %	% Cover	of Biotic C	Crust		%	Present?	Yes	No		
Remarks:			_		_					

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Loc² Texture³ (inches) Color (moist) Type¹ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** No (Yes (Remarks: Not assessed. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Not assessed.

Project/Site: Rough Acres Ranch		City/Count	y:Boulevar	d/San Diego Count	y Sam	pling Date: 6	/10/08	
Applicant/Owner: Hamann Companies				State:CA	Sam	pling Point:	5	
Investigator(s): Mike Howard/Travis Smith		Section, T	ownship, Ra	nge:Live Oak Sprin	gs, 16E	/17S/7		
Landform (hillslope, terrace, etc.):		Local relie	ef (concave,	convex, none):none		Slop	oe (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	41' 33N		Long:116°116' 59'	W	 Datur	n:	
Soil Map Unit Name: Loamy Alluvial Land				NWI clas	sification	: PEMC		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain i	in Remar	ks.)		
		disturbed?		'Normal Circumstance			No	\circ
		oblematic?		eeded, explain any ans	•	\sim		
SUMMARY OF FINDINGS - Attach site map s			,			,	ıtures,	etc.
_			<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u>•</u>			
		ls t	he Sampled	l Δrea				
			hin a Wetlar		\circ	No 💿		
Remarks: Only sampled vegetation to verify edge of	wetland.							
				-	-			
VEGETATION								
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w				
1.				Number of Dominar That Are OBL, FAC				(A)
2.				-				,
3.				Total Number of Do Species Across All		1		(B)
4.				Percent of Dominar	nt Snacia	2		
Total Cover	%			That Are OBL, FAC		_) %	(A/B)
Sapling/Shrub Stratum 1.				Prevalence Index v	worksho	ot:		
2.		-		Total % Cover		Multiply	/ bv:	
3.				OBL species		x 1 =	0	
4.				FACW species	5	x 2 =	10	
5.				FAC species		x 3 =	0	
Total Cover:	%			FACU species	70	x 4 =	280	
Herb Stratum				UPL species	12	x 5 =	60	
1.Brassica nigra	2	No	UPL	Column Totals:	87	(A)	350	(B)
2-Juncus mexicanus	5	No	FACW	Prevalence In	dex = B/	Δ –	4.02	
3.Erodium cicutarium	5	No	UPL	Hydrophytic Veget			4.02	
4-Sisymbrium altissimum 5-Hordeum murinum ssp. glaucum	70 5	Yes No	FACU UPL	Dominance Tes				
6.		100	UPL	Prevalence Ind				
7.		-		Morphological /				ng
8.						n a separate	,	
Total Cover:	87 %			Problematic Hy	drophytic	: Vegetation'	(Explain	1)
Woody Vine Stratum	07 70			The disease of books		l	la el e en c	
1				Indicators of hydric be present.	c soil and	d wetland hyd	irology r	must
2								
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum15 %	of Biotic C	Crust	%	Present?	Yes 🔘	No 💿		
Remarks:								

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Loc² Texture³ (inches) Color (moist) Type¹ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** No (Yes (Remarks: Not sampled. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Not sampled.

	City/Coun	ty: <u>Boulevar</u>	d/San Diego Coun	<u>ity</u> Sai	mpling Date:	6/10/08	
			State:CA	Sar	npling Point	6	
	Section, T	ownship, Ra	ange:Live Oak Spri	ngs, 16E	E/17S/7		
	Local reli	ef (concave,	convex, none):none		SI	ope (%):()	
Lat:32°	41' 33N		Long:116°116' 59	9W	 Dat	um:	
			_		n: PEMC		
s time of ve	ear? Yes (No (
					,	No.	\circ
				·		, 110	\circ
showing	ı samplii	ng point l	ocations, transe	ects, im	portant fo	eatures,	etc.
0							
0	Is	the Sample	d Area				
0 0				0	No 💿		
70 0010.						1	(A)
		-	-	•		1	()
-	-	-				3	(B)
		-	-			3	` '
r: %						33%	(A/B)
					J	3.5 %	
		-	_			alız biz	
	No	- UPL		1 01.			-
		-		52			
-	-	-	_	32			
55 %			-l ·	5			
. 33 %					x 5 =		
10	Yes	UPL			(A)		(B)
2	No	FACW			, ,		. ,
15	No	UPL				3.15	
5	Yes	FACU					
		-				o oupporti	na
							ng
			Problematic H	lydrophyt	c Vegetation	n¹ (Explain	1)
32 %							
				ric soil ar	d wetland h	ydrology r	must
			be present.				
: %			Hydrophytic				
of Biotic (Crust	0/0		Yes 🕡	No ($\overline{}$	
				. 55 (, 110 (_	
.							
).							
	Absolute % Cover 50 51 55 50 55 55 60 60 60 60 60 60 60 60 60 60 60 60 60	Section, T Local reli Lat:32° 41' 33N stime of year? Yes (ignificantly disturbed' aturally problematic? showing sampling Showing Sampling Sh	Section, Township, Ra Local relief (concave, Lat:32° 41' 33N stime of year? Yes No (ignificantly disturbed? Are aturally problematic? (If n showing sampling point In showing sampling sampling point In showing sampling point In showing sampling s	State:CA Section, Township, Range:Live Oak Spri Local relief (concave, convex, none):none Lat:32° 41' 33N Long:116°116' 5' NWI cla stime of year? Yes No (If no, explair ignificantly disturbed? Are "Normal Circumstand aturally problematic? (If needed, explain any a showing sampling point locations, transe Is the Sampled Area within a Wetland? Yes Absolute Species? Status Absolute Species? Status Absolute Species? Status Absolute Species? Status Absolute Species? Status Absolute Oominant Indicator % Cover Species? Status Absolute Oominant That Are OBL, FA Total Number of Dominant That Are OBL, FA Total Number of Dominant That Are OBL, FA Species Across Af Percent of Domina That Are OBL, FA OBL species FACW species FACW species FACW species FACU species UPL speci	State:CA Sar Section, Township, Range:Live Oak Springs, 16E Local relief (concave, convex, none):none Lat:32° 41' 33N	State:CA Section, Township, Range:Live Oak Springs, 16E/17S/7 Local relief (concave, convex, none):none Lat:32° 41' 33N Long:116°116' 59W Data	State:CA Sampling Point: 6 Section, Township, Range:Live Oak Springs, 16E/17S/7 Local relief (concave, convex, none):none Lat:32° 41' 33N Long:116°116' 59W Datum: NWI classification: PEMC Stime of year? Yes No (If no, explain in Remarks.) Indicator Species? Status No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Species? Status Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 To

SOIL Sampling Point: 6

Profile Des	scription: (Describe t	to the de	pth needed to docum	ent the	indicator	or confirn	n the absence of	indicators.)	
Depth	Matrix Color (moist)	0/				1002	Toyturo ³	Pom	arko
			Color (moist)	70	_ rype_			Kema	aiks
								- 	
11-12			5 YR 4/6		<u>C</u>	RC	Silty Loam	Bedded	
	7.5 YR 3/1	18							
12-23	7.5 YR 4/2	98	7.5 YR 4/6	2	<u>C</u>	RC	Sandy Loam		
	-							-	
¹ Type: C=0	Concentration. D=Depl	etion. RM	 1=Reduced Matrix.	2Locatic	n: PL=Por	 e Linina. R	C=Root Channel.	M=Matrix.	
	·								my Sand, Sand.
Hydric Soil	Indicators: (Applicable	e to all LF	RRs, unless otherwise	noted.)			Indicators for	Problematic Hydric So	oils:
(inches) Color (moist) % Type¹ Loc² Texture³ Remarks 0-11 7.5 YR 5/3 100 Sand Sand 11-12 7.5 YR 4/2 80 5 YR 4/6 2 C RC Silty Loam Bedded 7.5 YR 3/1 18 Silty Loam Bedded									
				, ,				, , ,	
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		•)	· ·				Uner (Ex	piain in Kemarks)	
		(A11)			` '				
		,,,,,							
	, ,				(- /		⁴ Indicators of I	hydrophytic vegetation	n and
Sandy	Gleyed Matrix (S4)						wetland hy	drology must be prese	ent.
Restrictive	Layer (if present):								
Deptin Mark Redox Features Color (moist) % Color (moist) % Type Loc² Texture Remarks									
Depth (ii	nches):						Hydric Soil Pre	esent? Yes 💿	No 🔘
Remarks:]	Depth (inches)								
HADBUL	nev								
	_						Seconda	ry Indicators (2 or mo	re required)
	, 0,	ator is suf	ficiont)					,	
		aloi is sui	·	(D44)					
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			<u></u>	, ,	ioo (D12)				ne)
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	` ' '	,				Living Poo			(02)
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		iiie)			`	,		,	al Imagery (C9)
		magery (F				vea cons (· —		iniagery (00)
		nagery (L	orici (Exp	iaiii iii iv	ciliains)				
	, ,							11001101 (20)	
		es O	No Depth (inc	hes).					
				<i>′</i> —					
		_		· —					
		es (No (Depti (inc	——————————————————————————————————————		Wetl	and Hydrology P	resent? Yes 💿	No 🔘
Describe R	ecorded Data (stream	gauge, m	onitoring well, aerial p	hotos, p	revious ins	spections),	if available:		
Remarks:									

Project/Site: Rough Acres Ranch		City/Coun	ty:Boulevar	d/San Diego Coun	ty Sam	npling Date: (5/10/08	
Applicant/Owner: Hamann Companies				State:CA	Sam	pling Point:	7a	
Investigator(s): Mike Howard/Travis Smith		Section, T	ownship, Ra	nge:Live Oak Sprii	ngs, 16/1	7S/7		
Landform (hillslope, terrace, etc.):		Local reli	ef (concave,	convex, none):none		Slo	pe (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	41' 33N		Long:116°116' 59	W	 Datu	m:	
Soil Map Unit Name: Loamy Alluvial Land				NWI clas	ssification	: PEMC		
Are climatic / hydrologic conditions on the site typical for this t	time of ye	ear? Yes (No ((If no, explain	in Remar	ks.)		
		disturbed	~	'Normal Circumstanc	es" prese	nt? Yes	No	\circ
		oblematic?		eeded, explain any ar	·	\sim		
SUMMARY OF FINDINGS - Attach site map sh			,				atures,	etc.
Hydrophytic Vegetation Present? Yes No								
Hydric Soil Present? Yes No	_	Is	the Sampled	Area				
Wetland Hydrology Present? Yes No			thin a Wetlar		•	No 🔘		
Remarks: Pit is at boundary of wetland. Vegetation to	east is l	hydrophy	tic, to west	is not.				
VEGETATION								
	bsolute Cover	Dominan Species?	t Indicator Status	Dominance Test v				
1.	70 00101	Орескоз	Otatus	Number of Domina That Are OBL, FAC				(A)
2.			-	-		0. 1		(/\)
3.		-	-	 Total Number of De Species Across All 		1		(B)
4.						1		(-)
Total Cover:	%			 Percent of Domina That Are OBL, FAC 		_	0.0 %	(A/B)
Sapling/Shrub Stratum							70	(,,,,,
1				Prevalence Index				
2				Total % Cover		Multiply		-
3.				OBL species FACW species	10	x 1 = x 2 =	10 100	
4			-	FAC species	50	x 2 = x 3 =	0	
Total Cover:	%			FACU species	2	x 4 =	8	
Herb Stratum	/0			UPL species	19	x 5 =	95	
1.Brassica nigra	10	No	UPL	Column Totals:	81	(A)	213	(B)
2. Juncus mexicanus	50	Yes	FACW					. ,
3. Erodium cicutarium	5	No	UPL	Prevalence Ir			2.63	
4.Sisymbrium altissimum	2	No	FACU	Hydrophytic Vege				
5.Hordeum murinum ssp. glaucum	2	No	UPL	Dominance TePrevalence Inc				
6.Heliotropium curassavicum	10	No	OBL	Morphological			eupporti	na
7-Bromus madritensis	2	No	UPL			n a separate		i ig
8Total Cover:			-	Problematic H	ydrophytic	Vegetation ¹	(Explain)
Woody Vine Stratum	81 %							
1.				¹ Indicators of hydr	ic soil and	d wetland hy	drology r	must
2.				be present.				
Total Cover:	%			Hydrophytic				
% Bare Ground in Herb Stratum 20 % % Cover of	of Biotic C	Crust	%	Vegetation Present?	Yes (•)	No ()	
Remarks:								

SOIL 7a Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 0 - 177.5 YR 5/3 100 Sand 17 +7.5 YR 4/2 99 7.5 YR 4/6 C RC Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: Same soil pit for 7 and 8 **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches):

Project/Site: Rough Acres Ranch		City/C	county:Boulevar	d/San Diego Coun	<u>ty</u> Sa	impling Date	e: <u>6/10/08</u>
Applicant/Owner: Hamann Companies				State:CA	Sa	mpling Poin	nt: 7b
Investigator(s): Mike Howard/Travis Smith		Section	on, Township, Ra	ange:Live Oak Spri	 ngs, 16	E/17S/7	
Landform (hillslope, terrace, etc.):		Local	I relief (concave,	convex, none):none		5	Slope (%):()
Subregion (LRR):C - Mediterranean California	Lat:32°	-		Long:116°116' 59			atum:
Soil Map Unit Name: Loamy Alluvial Land		11 3.	511	_		on: PEMC	
	Octor Conservation	0 . \/	Year O Nie (
Are climatic / hydrologic conditions on the site typical for t							
Are Vegetation Soil or Hydrology	significantly			"Normal Circumstance		•	
Are Vegetation Soil or Hydrology	naturally pr	oblema	atic? (If n	eeded, explain any ar	nswers ir	n Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling point l	ocations, transe	cts, in	nportant f	features, et
	0						
Hydrophytic Vegetation Present? Yes	No (
Hydric Soil Present? Yes (a) Wetland Hydrology Present? Yes (b)	No (Is the Sample			NI- O	
Remarks: Although soils and hydrology are presen		s func	within a Wetla		tland 7	No Che area ha	s nagligible
biological function or value as wetlands							
not meet CDFG or County wetland criter		or supp	port wettand de	spendent sensitive	эрестев.	Therefore	o the area dot
,							
VEGETATION							
	Absolute	Domi	inant Indicator	Dominance Test	workshe	eet:	
Tree Stratum (Use scientific names.)	% Cover	Spec	cies? Status	Number of Domina	ant Spec	ies	
1				That Are OBL, FAC	CW, or F	AC:	$0 \qquad (A)$
2				Total Number of D	ominant		
3				Species Across All	Strata:		2 (B)
4				Percent of Domina	ınt Speci	es	
Total Co Sapling/Shrub Stratum	ver: %			That Are OBL, FA	CW, or F	AC:	0.0 % (A/E
1.				Prevalence Index	worksh	eet:	
2.				Total % Cover	r of:	Mult	tiply by:
3.				OBL species	10	x 1 =	10
4.				FACW species	5	x 2 =	10
5.				FAC species		x 3 =	0
Total Cov	ver: %			FACU species	5	x 4 =	20
Herb Stratum				UPL species	80	x 5 =	400
1.Brassica nigra		Yes	UPL	Column Totals:	100	(A)	440 (
2. Juncus mexicanus	5	No	FACW	Prevalence I	ndex - i	R/A —	4.40
3.Erodium cicutarium		Yes	UPL	Hydrophytic Vege			4.40
4-Sisymbrium altissimum		No No	FACU	Dominance Te			
5.Hordeum murinum ssp. glaucum 6.Heliotropium curassavicum	$-\frac{15}{10}$	$\frac{No}{No}$	OBL	Prevalence In			
7.Bromus madritensis	$-\frac{10}{5}$	$\frac{No}{No}$	UPL	Morphological	Adaptat	ions¹ (Provi	de supporting
8.		-110		data in Rer	marks or	on a separa	ate sheet)
Total Cov	/er: 100 av	_		Problematic H	ydrophy	tic Vegetatio	on¹ (Explain)
Woody Vine Stratum	ver: 100%						
1				¹ Indicators of hydr	ic soil a	nd wetland	hydrology mus
2				be present.			
Total Cov	ver: %			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 5 % % Co	ver of Biotic (Crust	%	Present?	Yes (No	•
Remarks:						-	

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 0 - 177.5 YR 5/3 100 Sand 17 +7.5 YR 4/2 99 7.5 YR 4/6 C RC Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: Same soil pit for 7 and 8. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations:

Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: US Army Corps of Engineers Arid West - Version 11-1-2006

Applicant/Owner: Hamann Companies Applicant/Owner: Hamann Companies Applicant/Owner: Hamann Companies								
nvestigator(s):Callie Ford and Patricia Schuyler				State:CA	Sar	npling Point:	8	
		Section	n, Township, Ra	ange:Live Oak Spr	ings, 16E	E/17S/7		
andform (hillslope, terrace, etc.): floodplain		Local	relief (concave,	convex, none):none	;	Slo	pe (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	41' 33	N	Long:116°116' 5	9W	 Datu	ım:	
Soil Map Unit Name: Loamy Alluvial Land					assification	:PEMC		
are climatic / hydrologic conditions on the site typical for this	s time of ve	ar? Ye	es (•) No (
	significantly		_	"Normal Circumstan		,	No (
	naturally pro			eeded, explain any a		\sim	(_
SUMMARY OF FINDINGS - Attach site map s							atures.	etc
			31111		,			
	lo 📵		Is the Sampled	1 Δτορ				
	lo (i)		within a Wetla		\circ	No (•)		
Remarks:DS taken ~20' from UVC in Juncus mexica	•		within a vvetta	103		110 (6)		—
<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Domin Specie	nant Indicator es? Status	Dominance Test Number of Domin				
1				That Are OBL, FA	CW, or FA	AC:	1 (A	A)
2				Total Number of D				
3				Species Across A	Il Strata:	2	2 (E	В)
4				Percent of Domina				
Total Cove Sapling/Shrub Stratum	er: %			That Are OBL, FA	CW, or FA	AC: 50).0 % (A	4/B)
1.				Prevalence Index	workshe	et:		
2.				Total % Cove	r of:	Multip	ly by:	
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species	70	x 3 =	210	
Total Cover Herb Stratum	r: %			FACU species		x 4 =	0	
	70	Yes	EAG	UPL species	50	x 5 =	250	
1-Hordeum marinum ssp. gussoneanum 2-Erodium cicutarium	$-\frac{70}{50}$	Yes	FAC UPL	Column Totals:	120	(A)	460	(B)
3.		168	UPL	Prevalence	Index = B	/A =	3.83	
4.				Hydrophytic Veg	etation In	dicators:		
5.				Dominance T	est is >50	%		
6.				Prevalence Ir	ndex is ≤3.	0 ¹		
7.				Morphologica				g
8.						on a separate	,	
Total Cover	r: 120%			Problematic F	nyarophyti	c vegetation	(⊏xpiain)	
Woody Vine Stratum				¹ Indicators of hyd	ric soil an	d wetland h	rdrology m	niet
1.				be present.	iio suii all	u wellanu n	, arology III	uðl
2Total Cover	r: %			Hydrophytic				
i oldi Covei	r of Biotic C			Vegetation	., .			
% Bare Ground in Herb Stratum 5 % % Cover		`ruct	%	Present?	Yes (No (

SOIL Sampling Point: 8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Texture³ Color (moist) (inches) Color (moist) % Type¹ Loc² Remarks 0 - 167.5 Y 3/2 100 Sandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type:Hard Surface Depth (inches):10" **Hydric Soil Present?** No (Yes (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations:

Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Rough Acres Ranch		City/County: Boulevard/San Diego County Sampling Date: 3/22/12						
Applicant/Owner: Hamann Companies		State: CA Sampling Point: 9						
nvestigator(s):Callie Ford and Patricia Schuyler		Section	n, Township, Ra	ange:Live Oak Spr	ings, 16E	E/17S/7		
andform (hillslope, terrace, etc.): floodplain		Local r	elief (concave,	convex, none):none	e	Slo	ppe (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32°	41' 331	N	Long:116°116' 5	9W	 Datu	um:	
Soil Map Unit Name: Loamy Alluvial Land					assification	n:PEMC		
Are climatic / hydrologic conditions on the site typical for thi	is time of ve	ear? Yes	s (•) No ((If no, explai	n in Rema	rks.)		
	significantly			"Normal Circumstan		,	No (\circ
	naturally pr			eeded, explain any a			,	\cup
SUMMARY OF FINDINGS - Attach site map							atures,	etc
	10 (C)				<u> </u>	<u>. </u>	<u> </u>	
, , , ,	10 (١,	Is the Sample	d Area				
	10 🔘		within a Wetla		\circ	No (•)		
Remarks:DS taken ~20' from UVC in Juncus mexic	anus (dist	.)						
/EGETATION								
	Absolute	Domina	ant Indicator	Dominance Test	workshe	et:		
Tree Stratum (Use scientific names.) 1.	% Cover	Specie	es? Status	Number of Domin			2 ((A)
2	_			Total Number of I	Dominant			
3.				Species Across A			2 ((B)
4				Percent of Domin	ant Specie	es		
Total Cove Sapling/Shrub Stratum	er: %			That Are OBL, FA			0.0 %	(A/B)
1.				Prevalence Inde	x worksh	eet:		
2.				Total % Cove	er of:	Multip	ly by:	
3.	_		<u>.</u>	OBL species		x 1 =	0	
4.		-		FACW species	68	x 2 =	136	
5.				FAC species	78	x 3 =	234	
Total Cove	er: %			FACU species		x 4 =	0	
Herb Stratum	5 0	* 7		UPL species		x 5 =	0	
1-Hordeum marinum ssp. gussoneanum		Yes	FAC	Column Totals:	146	(A)	370	(B)
2-Juncus mexicanus 3.	68	Yes	FACW	Prevalence	Index = E	8/A =	2.53	
4.			 .	Hydrophytic Veg	etation Ir	dicators:	2.33	
5.				➤ Dominance T				
6.				× Prevalence II	ndex is ≤3	.0 ¹		
7.	_	-	 -	Morphologica				ng
8.						on a separate	,	
Total Cove	er: 146%			Problematic I	Hydrophyt	c Vegetation	' (Explain))
Woody Vine Stratum	11070			1 maliantana of lavo	luia aail au	بدا لمصملامينا		4
1			<u> </u>	¹ Indicators of hyd be present.	iric soli ar	ia wetiana ny	yarology n	nust
2	_							
Total Cove	er: %			Hydrophytic Vegetation				
	r of Riotic (Crust	%	Present?	Yes (No (
% Bare Ground in Herb Stratum	i oi biotic c		70	i resent:	.00 (3		_	

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 0 - 32.5 Y 4/2 100 Sandy loam 3 - 102.5 Y 3/2 100 7.5 YR 4/6 C PL Sandy loam PL/M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type:Hard Surface Depth (inches):10" **Hydric Soil Present?** No (Yes (Remarks: Some concentrations in pore lining and very little if any in matrix, not enough to qualify as hydric. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations:

Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No ((includes capillary fringe) Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: About 1% evidence of oxidized rhizopheres (C3) but doesn't meet manual standard. US Army Corps of Engineers Arid West - Version 11-1-2006

							vard/San Diego County Sampling Date:3/22/12			
			State:CA	Sar	npling Point:	10				
	Section,	Township, Ra	ange:Live Oak Spri	A Sampling Point: 10 Springs, 16E/17S/7 none Slope (%):0 16' 59W Datum: WI classification:PEMC xplain in Remarks.) instances" present? Yes No any answers in Remarks.) ansects, important features, Yes No No No Test worksheet: ominant Species L, FACW, or FAC: 1 ominant Species L, FACW, or FAC: 50.0 % Index worksheet: Cover of: Multiply by: x 1 = 0 es 5 x 2 = 10 40 x 3 = 120 es x 4 = 0 20 x 5 = 100 Is: 65 (A) 230 ence Index = B/A = 3.54 Evegetation Indicators: nce Test is >50% nce Index is ≤3.0¹ origical Adaptations¹ (Provide supportion Remarks or on a separate sheet) atic Hydrophytic Vegetation¹ (Explain) If hydric soil and wetland hydrology in In Remarks or on a wetland hydrology in In Remarks or on a wetland hydrology in In Remarks or on a wetland hydrology in In Remarks or on a wetland hydrology in						
	Local re	lief (concave,	convex, none):none		Slo	pe (%):()				
Lat:32°	41' 33N		NWI classification:PEMC (If no, explain in Remarks.) "Normal Circumstances" present? Yes No (needed, explain any answers in Remarks.) Ilocations, transects, important features, or ed Area and? Yes No (and the content of the cont							
			NWI cla	ssification	n:PEMC					
this time of ve	ear? Yes	No ((If no. explair	n in Rema	rks.)					
					,	No	\circ			
,										
		,	,		,	aturos	otc			
J SHOWING	Sampi	ing point i	ocations, transe		portant le	atures,	CIC.			
No 💿										
~										
No 💿	w	ithin a Wetla	ı a Wetland? Yes No 💿							
Absolute	Dominar	nt Indicator	Dominance Test	workshe	et:					
% Cover	Species	? Status					(A)			
					2		(B)			
			-				(-)			
ver: %						.0 %	(A/B)			
			Prevalence Index	workshe	et:					
			Total % Cove	r of:	Multipl	y by:				
			OBL species		x 1 =	0				
			FACW species	5	x 2 =	10				
			FAC species	40	x 3 =	120				
ver: %			FACU species		x 4 =	0				
4.0	**		UPL species	20	x 5 =	100				
			Column Totals:	65	(A)	230	(B)			
			Prevalence I	ndex = B	/A =	3 54				
	res	UPL	Hydrophytic Veg	etation In	dicators:	3.51				
			Dominance T	est is >50	%					
			Prevalence In	dex is ≤3.	.0 ¹					
	-						ng			
						,	`			
ver: 65 %			- Problematic F	iyarophyti	c vegetation	(⊏xplain	.)			
			¹ Indicators of hyd	ric soil an	d wetland hy	drology r	muet			
			be present.	no son an	a welland ny	drology i	Hust			
Ver: 0/			Hydrophytic							
	Crust	%	Vegetation Present?	Yes (No (
ynonym wh	ereas H.	geniculatun	n is also a synonyr	n which	is listed as l	NI. Jep	oson			
to moist" sit	es.					-				
	Absolute % Cover wer: % 40 5 20 N/A ver: 65 % ver of Biotic Coynonym wh	Absolute No Cover Absolute % Cover Absolute % Cover Absolute % Cover No Yes No Ye	Local relief (concave, Lat:32°41' 33N this time of year? Yes No (significantly disturbed? Are naturally problematic? (If no p showing sampling point Io No Is the Sampler within a Wetla Absolute	Local relief (concave, convex, none): none Lat:32°41' 33N	Local relief (concave, convex, none): none Lat: 32°41' 33N	Lat:32°41' 33N Long: 116°116' 59W NWI classification: PEMC this time of year? Yes No (If no, explain in Remarks.) significantly disturbed? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) p showing sampling point locations, transects, important fe No Is the Sampled Area within a Wetland? Yes No Species? Status	Lat:32°41'33N Long:116°116'59W Datum: Lat:32°41'33N Long:116°116'59W Datum: NWI classification:PEMC this time of year? Yes			

SOIL 10 Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² (inches) Color (moist) Color (moist) % Texture³ Type¹ Remarks 40 plant material 0-16 10 YR 5/1 Sand 0 - 1610 YR 5/2 40 Sand 0-210 YR 3/2 20 Sandy loam plant material ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Depleted Matrix (F3) Stratified Layers (A5) (LRR C) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** No (Yes (Remarks: No redox features present

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)				
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)				
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)				
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)				
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)				
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)				
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	ng Roots (C3) Thin Muck Surface (C7)				
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No Depth (inches):					
Water Table Present? Yes No Depth (inches):					
Saturation Present? Yes No Depth (inches):					
(includes capillary fringe)	Wetland Hydrology Present? Yes No No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:				
Remarks:					

nate map sh	time of year inificantly property of the control of	Local re 41' 33N ear? Yes disturbed bblematic sampl	No (d? Are? (If no ing point less the Samples within a Wetland	"Normal Circumstances" peeded, explain any answerocations, transects,	Date ation:PEMC emarks.) resent? Yes (• resent feature	ope (%): <u>()</u> um:
al for this ti	time of year inificantly property of the control of	Local re 41' 33N ear? Yes disturbed blematic sampl Is w	No (d? Are? (If no ing point Interest in Indicators? Status	convex, none):none Long:116° 116' 59W NWI classification (If no, explain in Reference of the control of the co	Date ation:PEMC emarks.) resent? Yes (• resent feature	No O
sig nat e map sh No No No	time of year inificantly property of the control of	ar? Yes disturbed blematic sample Is w	No (d? Are ? (If no ing point In sthe Sample of thin a Wetla not Indicator ?? Status	NWI classification (If no, explain in Recommendation) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any answer) (If no, explain any any any any any any any any any an	Data ation:PEMC emarks.) resent? Yes (a) resin Remarks.) important for No () sheet: pecies or FAC:	No O
sig nat e map sh No No No	time of year inificantly property of the control of	par? Yes disturbed believed by the disturbed by the distu	No (d? Are ? (If no ing point In indicator ? Status	NWI classification (If no, explain in Reference of the Normal Circumstances peeded, explain any answer ocations, transects, di Area and? Dominance Test works Number of Dominant Sp. That Are OBL, FACW, of the Normal of the Nor	nation:PEMC emarks.) resent? Yes (a) resent (b) resent (c) resent? Yes (c) resent. Yes (c) res	No ()
sig nat e map sh No No No	nificantly pronowing Absolute 6 Cover	sampl Is W Domina Species	d? Are (If no ing point less the Samples ithin a Wetlan int Indicator in Status	"Normal Circumstances" peeded, explain any answer ocations, transects, d Area and? Yes Dominance Test work: Number of Dominant Sp. That Are OBL, FACW, c.	emarks.) resent? Yes (• resent	eatures, etc
sig nat e map sh No No No	nificantly pronowing Absolute 6 Cover	sampl Is W Domina Species	d? Are (If no ing point less the Samples ithin a Wetlan int Indicator in Status	"Normal Circumstances" peeded, explain any answer ocations, transects, d Area and? Yes Dominance Test work: Number of Dominant Sp. That Are OBL, FACW, c.	emarks.) resent? Yes (• resent	eatures, etc
sig nat e map sh No No No	nificantly pronowing Absolute 6 Cover	sampl Is W Domina Species	d? Are (If no ing point less the Samples ithin a Wetlan int Indicator in Status	"Normal Circumstances" peeded, explain any answer ocations, transects, d Area and? Dominance Test work: Number of Dominant Sp. That Are OBL, FACW, c.	resent? Yes (es in Remarks.) important fe No () sheet: pecies or FAC:	eatures, etc
nate map sh	turally pronowing Constitution of the state	sampl Is w	(If no ing point less the Samples within a Wetlan int Indicator Status	Dominance Test works Number of Dominant Sp That Are OBL, FACW, o	No No sheet:	eatures, etc
No No No	Absolute 6 Cover	sampl Is w	the Sampled within a Wetla	Dominance Test works Number of Dominant Sp. That Are OBL, FACW, o	No O	
No No No	Absolute & Cover 15	ls w	the Sampleo ithin a Wetla nt Indicator	Dominance Test works Number of Dominant Sp That Are OBL, FACW, c	No C	
No No	Absolute & Cover 15	Domina Species	nt Indicator	Dominance Test works Number of Dominant Sp That Are OBL, FACW, c	sheet: pecies or FAC:	2 (A)
A 2/2	Absolute & Cover 15	Domina Species	nt Indicator	Dominance Test works Number of Dominant Sp That Are OBL, FACW, c	sheet: pecies or FAC:	2 (A)
A <u>%</u>	Absolute % Cover 15	Domina Species	nt Indicator	Dominance Test works Number of Dominant Sp That Are OBL, FACW, c	sheet: pecies or FAC:	2 (A)
<u></u>	% Cover 15	Species	? Status	Number of Dominant Sp That Are OBL, FACW, o	pecies or FAC:	2 (A)
<u></u>	% Cover 15	Species	? Status	Number of Dominant Sp That Are OBL, FACW, o	pecies or FAC:	2 (A)
<u></u>	% Cover 15	Species	? Status	Number of Dominant Sp That Are OBL, FACW, o	pecies or FAC:	2 (A)
	15			That Are OBL, FACW, o	or FAC:	2 (A)
tal Cover:		Yes	FAC	-		2 (A)
tal Cover:				Total Number of Domina	ant	
tal Cover:						
tal Cover:				Species Across All Strat	ta:	3 (B)
tal Cover:				Percent of Dominant Sp		
	15 %			That Are OBL, FACW, o	or FAC: 60	6.7 % (A/B)
				Prevalence Index work	sheet:	
				Total % Cover of:	Multip	oly by:
				OBL species	x 1 =	0
				FACW species 7	75 x 2 =	150
				FAC species 3	x 3 =	90
tal Cover:	%			FACU species	x 4 =	0
	1.5	NT			0 x 5 =	150
	15	No	FAC	Column Totals: 13	35 (A)	390 (B)
	75	Yes	FACW	Prevalence Index	= B/A =	2.89
	10	No	UPL UPL	Hydrophytic Vegetatio	n Indicators:	2.07
	20	168				
			_	Prevalence Index is	s ≤3.0 ¹	
				Morphological Adap	otations1 (Provide	e supporting
						,
tal Cover:	120%			Problematic Hydrop	hytic Vegetation	ı' (Explain)
	120 70			11	9 4 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	do . d
				,	and wetland h	ydrology must
al Cover:	%					
% Cover o	of Biotic C	Crust	%		No (\supset
as a synor	nym wh	ereas H.	geniculatur	n is also a synonym wh	ich is listed as	NI. Jepson
as a symul			<u> </u>	, , ,		1
1	as a syno	tal Cover: % % Cover of Biotic Cas a synonym wh	tal Cover: 120% tal Cover: % % Cover of Biotic Crust	tal Cover: 120% tal Cover: % % Cover of Biotic Crust% as a synonym whereas H. geniculatum	X Dominance Test is X Prevalence Index is Morphological Adag data in Remarks Tal Cover: 120% 1 Indicators of hydric soin be present. Hydrophytic Vegetation Present? Yes as a synonym whereas H. geniculatum is also a synonym whereas to the present is the present is the present is prevalence index is the prevalence index in the prevalence index is the prevalence index in the prevalence index is the prevalence index	X Dominance Test is >50% X Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide data in Remarks or on a separat Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and wetland help be present. tal Cover: % Hydrophytic Vegetation % Cover of Biotic Crust

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 0-410 YR 3/2 100 Sandy 4-16 10 YR 4/2 74 10 YR 5/8 4 C PL Sandy loam 20 4-16 10 YR 3/2 Silty clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: Iron redox features present along small roots. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches):

Landform (hillslope, terrace, etc.): floodplain Subregion (LRR)C - Mediterranean California Lat:32° 41' 33N Soil Map Unit Name: Loamy Alluvial Land Are climatic / hydrologic conditions on the site typical for this time of year? Yes • Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes • No Flydrology Present? Yes • No	State: CA Sampling Point: 12 which while the state of th
Landform (hillslope, terrace, etc.): floodplain Subregion (LRR).C - Mediterranean California Lat:32° 41' 33N Soil Map Unit Name: Loamy Alluvial Land Are climatic / hydrologic conditions on the site typical for this time of year? Yes • Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes • No Flydrology Present? Yes • N	(concave, convex, none):none Long:116°116' 59W NWI classification:PEMC No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc
Subregion (LRR).C - Mediterranean California Lat:32° 41' 33N Soil Map Unit Name: Loamy Alluvial Land Are climatic / hydrologic conditions on the site typical for this time of year? Yes • Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Summary Not Submary Septical Present? Yes No Submary Septical Present? Yes No Submary Septical No Submary Septical Sept	Long:116°116′59W NWI classification:PEMC No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) I point locations, transects, important features, etc
Soil Map Unit Name: Loamy Alluvial Land Are climatic / hydrologic conditions on the site typical for this time of year? Yes • Are Vegetation Soil or Hydrology aignificantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Sumpling Is the withing Remarks: VEGETATION Tree Stratum (Use scientific names.) Absolute Species? 1. 2. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	NWI classification: PEMC No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Submit No Su	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) J point locations, transects, important features, etc
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Hydrology Present? Yes No Hydrology Present? Yes No Holder Wetland Hydrology Present? Yes No Holder Within Remarks: VEGETATION Tree Stratum (Use scientific names.) Absolute Within Remarks: Absolute Species? 1. 2. 3. 4. Total Cover: % Sapling/Shrub Stratum 1. 2. 3. 4. Total Cover: % Herb Stratum 1 Hordeum marinum ssp. gussoneanum 5 No Face Stratum 1 Hordeum marinum ssp. gussoneanum 5 No Face Stratum 4 Hordeum vulgare 10 No Within Remarks: Total Cover: 110 % Woody Vine Stratum 1. Total Cover: 110 %	Are "Normal Circumstances" present? Yes No No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc
Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Suth	Are "Normal Circumstances" present? Yes No No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc
Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Substitution No Substit	(If needed, explain any answers in Remarks.) point locations, transects, important features, etc sampled Area
SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No No Is the Hydric Soil Present? Yes No No Is the Wetland Hydrology Present? Yes No No No No Within Remarks: VEGETATION Tree Stratum (Use scientific names.) 1. 2. 3. 4. Sapling/Shrub Stratum 1. 2. 3. 4. 5. Total Cover: % Herb Stratum 1-Hordeum marinum ssp. gussoneanum 5 No Factorium Servicus Marinum Se	point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No No Is the Within Remarks: VEGETATION Tree Stratum (Use scientific names.) 1. 2. 3. 4. Sapling/Shrub Stratum 1. 2. 3. 4. 5. Total Cover: % Herb Stratum 1-Hordeum marinum ssp. gussoneanum 2-Juncus mexicanus 3-Erodium cicutarium 4-Hordeum vulgare 5-Oxalis pes-caprae 6. 7. 8. Woody Vine Stratum 1. Cover: No No March Within Remarks: Is the within within within within within Remarks: Is the within within within Remarks: Is the within within Remarks: Is the within Remarks: Is the within Remarks: Absolute No Cover Species? Total Cover: % In No Is the within Remarks: Is the within R	e Sampled Area
Hydric Soil Present? Yes No No Within Wetland Hydrology Present? Yes No No Within Within Remarks: VEGETATION	·
Wetland Hydrology Present? Yes No	·
No. No.	n a Wetland? Yes ● No (
VEGETATION Tree Stratum (Use scientific names.) Absolute % Cover Species? Dominant In Species? 1. 2. 3. 4. 4. 4. 4. 5. 5. 5. 5. 5. 5. 5. 6. 6. 7. 8. 6. 7. 7. 7. 7. 7. 7. 7. 7. 8. 7. 7. 7. 7. 7. 7. 7. 8. 7. 7. 7. 7. 7. 7. 7. 8. 7.	
Tree Stratum (Use scientific names.)	
1.	Status
3.	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Cover:	
Total Cover:	Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum	
1. 2. 3. 4. 5. Total Cover: % Herb Stratum 1. Hordeum marinum ssp. gussoneanum 5 No FA 2. Juncus mexicanus 75 Yes FA 3. Erodium cicutarium 10 No Un 4. Hordeum vulgare 10 No Un 5. Oxalis pes-caprae 10 No Un 6. 7. 8. Total Cover: 110% Woody Vine Stratum 1. Total Cover: 110%	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)
2. 3. 4. 5. Total Cover: % Herb Stratum 1. Hordeum marinum ssp. gussoneanum 5 No F4 2. Juncus mexicanus 75 Yes F4 3. Erodium cicutarium 10 No UI 4. Hordeum vulgare 10 No UI 5. Oxalis pes-caprae 10 No UI 6. 7. 8. Total Cover: 110% Woody Vine Stratum 1.	Prevalence Index worksheet:
3. 4. 5. Herb Stratum 1. Hordeum marinum ssp. gussoneanum 2. Juncus mexicanus 3. Erodium cicutarium 4. Hordeum vulgare 5. Oxalis pes-caprae 6. 7. 8. Woody Vine Stratum 1. Total Cover: 110% Total Cover: 110%	Total % Cover of: Multiply by:
4	OBL species
Total Cover: % Herb Stratum 1. Hordeum marinum ssp. gussoneanum 5 No FA 2. Juncus mexicanus 75 Yes FA 3. Erodium cicutarium 10 No UI 4. Hordeum vulgare 10 No UI 5. Oxalis pes-caprae 10 No UI 6. 7. 8. Total Cover: 110 % Woody Vine Stratum 1.	FACW species 75 x 2 = 150
Herb Stratum 1. Hordeum marinum ssp. gussoneanum 5 No FA 2. Juncus mexicanus 75 Yes FA 3. Erodium cicutarium 10 No UI 4. Hordeum vulgare 10 No UI 5. Oxalis pes-caprae 10 No UI 6.	FAC species $5 \times 3 = 15$
1.Hordeum marinum ssp. gussoneanum 5 No FA 2.Juncus mexicanus 75 Yes FA 3.Erodium cicutarium 10 No UI 4.Hordeum vulgare 10 No UI 5.Oxalis pes-caprae 10 No UI 6. 7. 8. Woody Vine Stratum 1. Total Cover: 110%	FACU species x 4 = 0
2. Juncus mexicanus 75 Yes FA 3. Erodium cicutarium 10 No UI 4. Hordeum vulgare 10 No UI 5. Oxalis pes-caprae 10 No UI 6.	UPL species 30 x 5 = 150
3. Erodium cicutarium	Column Totals: 110 (A) 315 (B)
4. Hordeum vulgare 5. Oxalis pes-caprae 6. 7. 8. Woody Vine Stratum 1.	ACW
5. Oxalis pes-caprae 10 No UI 6. 7. 8. Total Cover: 110 % Woody Vine Stratum 1.	Prevalence Index = B/A = 2.86 Hydrophytic Vegetation Indicators:
6. 7. 8. Woody Vine Stratum 1.	N Dominance Test is > 50%
7. 8. Woody Vine Stratum 1.	
8. Total Cover: 110% 1. Total Cover: 0 110%	⊢ 😿 Prevalence index IS ≤3.0
Woody Vine Stratum 1.	
Woody Vine Stratum 1.	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
	Morphological Adaptations ¹ (Provide supporting
2	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
2	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Total Cover: %	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present.
% Bare Ground in Herb Stratum	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic
Remarks: This is based on using H. hystrix as a synonym whereas H. get	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present.
lists H. hystrix as occurring from "dry to moist" sites.	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes No
	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes • No •
	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes • No •

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 30 0 - 1410 YR 5/3 Sandy 0 - 147 Y 5/1 60 10 YR 5/6 8 C M Sandy loam 2 C 0 - 1410 YR 5/6 PL Sandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: Lots of roots in soil. Sandy inclusions. Lots of redox in soil, not as much in pore lining. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations:

Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Some oxidized rhizopheres along small roots. US Army Corps of Engineers Arid West - Version 11-1-2006

City/County: Boulevard/San Diego County Sampling Date: 3/28/12							
:: 13							
lope (%):()							
tum:							
No (
) 110 (6)							
eatures, etc.							
within a Wetland? Yes No No							
nas negligible							
e the area does							
1 (A)							
1 (B)							
00.0 % (A/B)							
ply by:							
0							
20							
240							
0							
25							
285 (B)							
2.00							
3.00							
le supporting							
te sheet)							
n¹ (Explain)							
nydrology must							
0							
NI. Jepson							
1.1. topson							
_							

SOIL 13 Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) Texture³ (inches) Type¹ Loc² Remarks 0-16 10 YR 3/1 99 5 YR 4/4 1 C M Sandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** No (Yes (Remarks: No redox features except near small sand inclusions. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks:

Project/Site: Rough Acres Ranch			City/Cou	nty:Bouleva	rd/San Diego Cour	nty Sa	Sampling Date: 3/28/12			
Applicant/Owner: Hamann Companies					State:CA	Saı	mpling Point:	14		
Investigator(s): Callie Ford and Patricia S	chuyler		Section,	Township, Ra	ange:Live Oak Spr	ings, 16H	E/17S/7			
Landform (hillslope, terrace, etc.): floodplai	in		Local re	lief (concave,	convex, none):none	;	Slo	ope (%):0		
Subregion (LRR):C - Mediterranean Calif	fornia	Lat:32°	41' 33N		Long:116°116′ 5	Sampling Point: 14 ak Springs, 16E/17S/7 alsone Slope (%):0 P116' 59W Datum: NWI classification:PEMC pexplain in Remarks.) cumstances" present? Yes No n any answers in Remarks.) transects, important features Yes No No No No No No No No No No				
Soil Map Unit Name: Loamy Alluvial Lan	ıd				NWI cla	assification	n:PEMC			
Are climatic / hydrologic conditions on the si		ime of ye	ear? Yes	No ((If no, explain	n in Rema	ırks.)			
Are Vegetation Soil or Hydrol			disturbed			ces" prese	ent? Yes	No	\circ	
Are Vegetation Soil or Hydrol	· _		oblematic							
								aturos	oto	
SUMMART OF FINDINGS - Attac	II SILE IIIAP SI	lowing	Sampi	ing point i	ocations, transe	(CLS, IIII	portant le		elc.	
Hydrophytic Vegetation Present?	res No	•								
	res No	•	Is	the Sample	d Area					
				within a Wetland? Yes No •						
Remarks:										
VEGETATION										
T 0: 4 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		bsolute		nt Indicator	Dominance Test	workshe	et:			
Tree Stratum (Use scientific names.)		% Cover	Species	? Status				0	(
1. 			-		- Inat Are OBL, FA	CVV, OF FA	AC: ()	(A)	
3.	 -				Total Number of D			0	(B)	
4.			-		- '			J	(D)	
	Total Cover:	%						0/	(A/B)	
Sapling/Shrub Stratum	. 0.0. 00.0.	,0				•		J %	(7,0)	
1. Isocoma menziesii		5		Not Listed						
2				_	_	r of:			-	
3.					OBL species FACW species					
4. 5.			-		FAC species	40				
	Total Cover:	5 %			FACU species	40				
Herb Stratum		3 70			UPL species	85	x 5 =			
1.Bromus madritensis		30		UPL	Column Totals:		(A)		(B)	
² .Hordeum marinum ssp. gussoneanu	m	40		FAC			, ,			
3. Erodium cicutarium		50		UPL				4.36		
4.										
5. 										
7.				_				e supporti	ng	
8.	 -								J	
	Total Cover:	120%			Problematic F	Hydrophyt	ic Vegetation	¹ (Explain	1)	
Woody Vine Stratum		120%			1					
1					Indicators of hyd be present.	ric soil ar	id wetland hy	/drology r	must	
2										
	Total Cover:	%			Hydrophytic Vegetation					
% Bare Ground in Herb Stratum5 %	% Cover o	of Biotic C	Crust	%	Present?	Yes (No (9		
Remarks: This is based on using H. hy				geniculatur	n is also a synonyr	n which	is listed as	NI. Jer	oson	
lists H. hystrix as occurring	from "dry to m	oist" sit	tes.							

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) % Type¹ Loc² Remarks 0-16 7.5 YR 3/2 100 Sandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** No (Yes (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present?

Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Feld Observations:

Surface Water Present? Yes No Depth (inches):

Water Table Present? Yes No Depth (inches):

Saturation Present? Yes No Epeth (inches):

Saturation Present? Yes No Pepth (inches):

Saturation Present? Yes No Pepth (inches):

Wetland Hydrology Present? Yes No Exercise Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Wetland Hydrology Present? Yes No Saturation Present? Yes No Pepth (Inches):

Remarks:

Project/Site: Rough Acres Ranch	City/County:Boulevar	d/San Diego County	Sampling Date: 3/	28/12
Applicant/Owner: Hamann Companies		State:CA	Sampling Point:	15
Investigator(s):Callie Ford and Patricia Schuyler	Section, Township, Ra	inge:Live Oak Springs,	16E/17S/7	
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave,	convex, none):none	Slop	e (%):()
Subregion (LRR):C - Mediterranean California Lat:32	41' 33N	Long:116° 116' 59W	 Datun	n:
Soil Map Unit Name: Loamy Alluvial Land		NWI classific	ation:PEMC	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No ((If no, explain in R	emarks.)	
		"Normal Circumstances" p	present? Yes	No O
	oblematic? (If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	•			tures, etc.
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No	Is the Sampled	d Area		
Wetland Hydrology Present? Yes No No	within a Wetlan	nd? Yes •	No 🔘	
Remarks: Thick Juncus mexicanus				
VECETATION				
VEGETATION	Description to the direction	I Dani's and Tank	al and	
Absolute Tree Stratum (Use scientific names.) % Cover	Dominant Indicator Species? Status	Dominance Test work		
1.	· <u> </u>	Number of Dominant Sp That Are OBL, FACW, of		(A)
2.		- - Total Number of Domin		. ,
3.		Species Across All Stra		(B)
4.		- - Percent of Dominant Sp	pecies	
Total Cover: %		That Are OBL, FACW, of		.0 % (A/B)
Sapling/Shrub Stratum		Prevalence Index wor	kshoot:	
1		Total % Cover of:	Multiply	hv
3.		OBL species	x 1 =	0
4.		_	00 x 2 =	200
5.		FAC species	x 3 =	0
Total Cover: %		FACU species	x 4 =	0
Herb Stratum		UPL species	x 5 =	0
1.Brassica sp.		Column Totals: 1	00 (A)	200 (B)
2-Juncus mexicanus 100	Yes FACW	Prevalence Index	_ P/A _	2.00
3.		Hydrophytic Vegetation		2.00
5.		Dominance Test is		
6.		Prevalence Index is		
7.		Morphological Ada		supporting
8.			s or on a separate s	<i>'</i>
Total Cover: 100%		Problematic Hydrop	ohytic Vegetation¹ ((Explain)
Woody Vine Stratum		1		
1		Indicators of hydric sobe present.	il and wetland hyd	Irology must
2				
Total Cover: %		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover of Biotic	Crust		s No	
Remarks:				

SOIL 15 Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture³ (inches) Color (moist) Type¹ Loc² Remarks 0-2plant material 2 - 1010 YR 3/2 5 YR 4/8 3 C PLSandy loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches):1() **Hydric Soil Present?** Yes (No (Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3)

Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No (Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: 5 YR 4/8 oxidized rhizospheres US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Rough Acres Ranch		City/County: Boulevard/San Diego County Sampling Date: 11/26/13							
Applicant/Owner: Hamann Compan	ies				State:CA	Sa	ampling Poir	nt:16	
Investigator(s): Thomas Liddicoat			Section	n, Township, Ra	ange: Live Oak Sp	rings, 10	6E/17S/7		
Landform (hillslope, terrace, etc.):			Local	relief (concave,	convex, none): Non	e		Slope (%):	
Subregion (LRR):C - Mediterranear	 1 California	Lat:	-	,	Long:			atum:	
Soil Map Unit Name:	- Cumomu				_	assification			
Are climatic / hydrologic conditions or	the cite tunical for this	time of w	00°2 V	no 🕟 No (
								O 11	
		ignificantly			"Normal Circumstan				0
Are Vegetation Soil or	Hydrology n	aturally pr	oblemat	tic? (If n	eeded, explain any a	inswers i	n Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map s	showing	samp	pling point l	ocations, transe	ects, in	nportant	features	, etc.
	Van O N								
Hydrophytic Vegetation Present? Hydric Soil Present?	_	o		la tha Camania	-l A				
Wetland Hydrology Present?	~	0	Is the Sampled Area						
Remarks:Pit within mapped Tam			e for g	within a Wetla	ind? Yes	<u> </u>	No 💿		
Depleted matrix found		-	_	-	ng non-native gras	sland a	nd alkali m	neadow: hי	vdric
soil indicator is not use					ing non nauve gras	Siulia ul	ic untuil ii	ioddo w, m	, arre
VEGETATION									
		Absolute		nant Indicator	Dominance Test	worksh	eet:		
Tree Stratum (Use scientific name	·s.)	% Cover	Speci		Number of Domin				
1. Tamarisk sp.		15	Yes	FAC	That Are OBL, FA	CW, or F	FAC:	1	(A)
2				 .	_ Total Number of D				
3				<u> </u>	_ Species Across A	ll Strata:		4	(B)
4					Percent of Domin				
Sapling/Shrub Stratum	Total Cover	r: 15 %			That Are OBL, FA	CW, or F	FAC:	25.0 %	(A/B)
1.					Prevalence Index	x worksl	neet:		
2.					Total % Cove	er of:	Mul	Itiply by:	_
3.			-	 -	OBL species		x 1 =	0	
4.					FACW species		x 2 =	0	
5					FAC species	15	x 3 =	45	
	Total Cover	: %			FACU species	15	x 4 =	60	
Herb Stratum			**		UPL species	40	x 5 =	200	
1.Hordeum vulgare			Yes	UPL	Column Totals:	70	(A)	305	(B)
2.Brassica sp.			No	Not Listed	Prevalence	Index =	B/A =	4.36	
3. Erodium cicutarium		20	Yes	UPL	Hydrophytic Veg			7.50	
4. Sisymbrium altissimum 5.		15	Yes	FACU	Dominance T				
6.		-			Prevalence Ir	ndex is ≤	3.0 ¹		
7.					Morphologica	ıl Adapta	tions¹ (Prov	ide support	ing
8.							on a separ	,	
	Total Cover	55 %			Problematic I	Hydrophy	rtic Vegetati	on¹ (Explair	า)
Woody Vine Stratum		33 %			1				
1					¹ Indicators of hyd be present.	lric soil a	ind wetland	hydrology	must
2									
	Total Cover	: %			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	40 % Cover	of Biotic (Crust	%	Present?	Yes (No	•	
Remarks:									

SOIL Sampling Point: 16

Profile Des	cription: (Describe	to the depth n	eeded to docur	nent the	indicator	or confir	m the absence of	indicators.)			
Depth	Matrix			x Feature			T	5			
(inches)	Color (moist)		Color (moist)	%_	Type ¹	Loc ²	Texture ³	Remarks			
0-4	7.5 YR 3/2	100					Sandy Loam	living roots present			
4-13	10 YR 3/1	85 5 Y	R 3/4	15	C	PL	Silt Loam				
13+	10 YR 4/2	100					Loamy Sandy				
	-			-		·					
	-										
-											
	-			·							
1	Concentration, D=Dep					-	C=Root Channel,				
					andy Loan	n, Clay Loa		n, Silt Loam, Silt, Loamy Sand, Sand.			
1 -	Indicators: (Applicab	e to all LRRs,		-				Problematic Hydric Soils:			
Histoso	` '		Sandy Redo	` '				k (A9) (LRR C)			
	pipedon (A2)		Stripped Ma	` '				k (A10) (LRR B) Vertic (F18)			
	listic (A3) en Sulfide (A4)		Loamy Muc					nt Material (TF2)			
	ed Layers (A5) (LRR (:)	□					plain in Remarks)			
	uck (A9) (LRR D)	•)	★ Depleted M Redox Dark	,	•			pian in Remarks)			
	ed Below Dark Surface	e (A11)	Depleted Da		` '						
I 🗀 '	ark Surface (A12)	,	Redox Depi								
Sandy I	Mucky Mineral (S1)		Vernal Pool		` ,		⁴ Indicators of	hydrophytic vegetation and			
Sandy	Gleyed Matrix (S4)						wetland hy	drology must be present.			
Restrictive	Layer (if present):										
Type:											
Depth (ir	nches):		_				Hydric Soil Pr	esent? Yes No			
Remarks:											
HYDROLO	OGY										
Wetland Hy	/drology Indicators:						Seconda	ry Indicators (2 or more required)			
Primary Indi	icators (any one indic	ator is sufficien	it)				☐ Wate	er Marks (B1) (Riverine)			
	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverine)				
	ater Table (A2)		Biotic Crus				Drift Deposits (B3) (Riverine)				
	ion (A3)		Aquatic In		tes (B13)		Drainage Patterns (B10)				
	Marks (B1) (Nonriver i	ne)	Hydrogen		` '			Season Water Table (C2)			
	ent Deposits (B2) (No	,	X Oxidized F			Livina Ro		Muck Surface (C7)			
l —	eposits (B3) (Nonrive		<u> </u>		ced Iron (C	-	` ' 🗀	rfish Burrows (C8)			
🗀	Soil Cracks (B6)	,			tion in Plov	,		ration Visible on Aerial Imagery (C9)			
	tion Visible on Aerial I	magery (B7)	Other (Exp				` ' 🗀	low Aquitard (D3)			
	Stained Leaves (B9)				,			-Neutral Test (D5)			
Field Obse								(
		es No	Depth (included)	ches).							
Water Table			~	· —							
		es No		· —							
Saturation F	Present? Y pillary fringe)	es O No	Depth (included)	cnes):		Wet	land Hydrology P	resent? Yes No			
	ecorded Data (stream	gauge, monito	ring well, aerial	ohotos, p	revious ins						
Remarks:											
US Army Corp	s of Engineers										

Project/Site: Rough Acres Ranch		City/County: Boulevard/San Diego County Sampling Da					11/26/13	
Applicant/Owner: Hamann Companies				State:CA	San	npling Point:	17	
Investigator(s): Thomas Liddicoat		Section,	Township, Ra	ange: Live Oak Spri	 ngs, 16H	E/17S/7		
Landform (hillslope, terrace, etc.):		Local rel	lief (concave,	convex, none):None		Slo	pe (%):	
Subregion (LRR):C - Mediterranean California	Lat:			Long:		 Datu	um:	
Soil Map Unit Name:				NWI clas	sification	i:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	in Rema	rks.)		
	ignificantly			"Normal Circumstance		,	No	\bigcirc
	aturally pr			eeded, explain any an				
							oturos	oto
SUMMARY OF FINDINGS - Attach site map s	nowing	Sampii	ing point i	ocations, transe	cts, im	portant le	atures,	etc.
Hydrophytic Vegetation Present? Yes No	• •							
	0	Is	the Sample	d Area				
	P (ithin a Wetla	nd? Yes	0	No 💿		
Remarks: Pit within mapped Tamarisk Scrub. Area i Depleted matrix found throughout floodpla soil indicator is not used to define jurisdicti VEGETATION	in both w	vithin are	eas supportir	ng non-native grass	land and	l alkali mea	ıdow; hy	dric
	Absolute	Dominar	nt Indicator	Dominance Test v	vorkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species	? Status	Number of Domina				
1. Tamarisk sp.	50	Yes	FAC	That Are OBL, FAC	CW, or FA	C:	1	(A)
2	-	-		Total Number of Dominant				(5)
3				Species Across All	Strata:		5	(B)
4.	50.0/			Percent of Dominar		_		((5)
Sapling/Shrub Stratum Total Cover	: 50 %			That Are OBL, FAC	SVV, or FA	C: 2(0.0 %	(A/B)
1.Artemisia tridentata	3	Yes	UPL	Prevalence Index	workshe	et:		
2.unk A	2	Yes	UPL	Total % Cover	of:	Multip		-
3	-			OBL species		x 1 =	0	
4				FACW species		x 2 =	0	
5	· ·			FACIL engage	50	x 3 =	150	
Total Cover Herb Stratum	5 %			FACU species UPL species	10	x 4 = x 5 =	40	
1-Hordeum vulgare	10	No	UPL	Column Totals:	65		325 515	(B)
2.Bromus madritensis	20	Yes	Not Listed	_ Column rotals.	125	(A)	313	(D)
3. Erodium cicutarium	25	Yes	UPL	Prevalence Ir	$dex = B_i$	/A =	4.12	
4. Sisymbrium altissimum	10	No	FACU	Hydrophytic Vege				
5.Brassica sp.	5	No	UPL	Dominance Te				
6.				Prevalence Inc				
7				Morphological data in Ren		ons' (Provide on a separate		ng
8.				Problematic H		•	,)
Total Cover Woody Vine Stratum	70 %							
1.				¹ Indicators of hydri	c soil an	d wetland hy	/drology r	nust
2.				be present.				
Total Cover	%			Hydrophytic				
% Bare Ground in Herb Stratum 25 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes (No (0	
Remarks:								

Field Observations: Surface Water Present? Yes (No (Depth (inches): Water Table Present? Yes (No (Depth (inches): Saturation Present? Depth (inches): Yes (No ((includes capillary fringe) Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: redox features were observed as horizontal thin layers along the pit wall, these layers were covered sand grains. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Rough Acres Ranch		City/Count	y:Boulevar	d/San Diego Count	y Sam	npling Date:11	/26/13	,
Applicant/Owner: Hamann Companies				State:CA	Sam	npling Point:	18	
Investigator(s): Thomas Liddicoat		Section, T	ownship, Ra	nge: Live Oak Spri	— ngs, 16E	E/17S/7		
Landform (hillslope, terrace, etc.):		Local relie	f (concave,	convex, none):None		Slop	e (%):	
Subregion (LRR):C - Mediterranean California	Lat:			Long:		 Datun	n:	
Soil Map Unit Name:				NWI clas	sification			
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No ((If no, explain	in Remar	·ks.)		
		disturbed?		'Normal Circumstance			No	\circ
	aturally pro	oblematic?		eeded, explain any an				
SUMMARY OF FINDINGS - Attach site map s							tures,	, etc.
Hydrophytic Vegetation Present? Yes No								
		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No	•		hin a Wetlar		0	No 💿		
Remarks:Pit within mapped Tamarisk Scrub. Area is								
Depleted matrix found throughout floodpla				g non-native grass	and and	l alkali mead	low; hy	/dric
soil indicator is not used to define jurisdicti	onal wet	land boun	daries.					
VEGETATION								
	Absolute	Dominant	Indicator	Dominance Test w	ıorkshoo	·+-		
	% Cover	Species?	Status	Number of Dominar				
1. Tamarisk sp.	20	Yes	FAC	That Are OBL, FAC				(A)
2.				Total Number of Do	minant			
3				Species Across All		4		(B)
4				Percent of Dominar	nt Specie	S		
Total Cover Sapling/Shrub Stratum	: 20 %			That Are OBL, FAC	W, or FA	C: 25.0) %	(A/B)
1.				Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Multiply	by:	_
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species	20	x 3 =	60	
Total Cover:	%			FACU species	20	x 4 =	80	
1.Brassica sp.	10	No	Not Listed	UPL species	45	x 5 =	225	(D)
2.Bromus madritensis	20	Yes	Not Listed	Column Totals:	85	(A)	365	(B)
3. Erodium cicutarium	15	Yes	UPL	Prevalence In	dex = B/	/A =	4.29	
4. Sisymbrium altissimum	20	Yes	FACU	Hydrophytic Vege	tation Inc	dicators:		
5.				Dominance Te				
6.				Prevalence Ind				
7				Morphological data in Rem		ons: (Provide s on a separate s		ng
8.				Problematic Hy			,	1)
Total Cover: Woody Vine Stratum	65 %							
1.				¹ Indicators of hydri	c soil and	d wetland hyd	rology i	must
2.				be present.				
Total Cover:	%			Hydrophytic				
% Bare Ground in Herb Stratum 25 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes 🔘	No 💿		
Remarks:								

	Matrix Color (moist)	%	Color (moist)	x Features	_Loc²	Texture ³	Remarks
0-4	7.5 YR 3/1	100				Silty Clay Loam	living roots present
4-8	10 YR 5/1	100				Loamy Sand	living roots present
8-13	10 YR 5/1	100				Loamy Sand	coarse sand
¹Type: C=C ³Soil Textur Hydric Soil Histosc Histic E Black F Hydrog Stratifie 1 cm N Deplete Thick E Sandy Sandy	Concentration, D=Depres: Clay, Silty Clay, Sindicators: (Applicabol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR 0) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) e Layer (if present):	oletion, RM=ReSandy Clay, Lole to all LRRs,	unless otherwise Sandy Redo Stripped Ma Loamy Muc Loamy Gley X Depleted M Redox Dark	e noted.) x (S5) atrix (S6) eky Mineral (F1) yed Matrix (F2) atrix (F3) c Surface (F6) ark Surface (F7) ressions (F8)		C=Root Channel, m, Silty Clay Loar Indicators for	M=Matrix. m, Silt Loam, Silt, Loamy Sand, Sand Problematic Hydric Soils: ck (A9) (LRR C) ck (A10) (LRR B) Vertic (F18) ent Material (TF2) explain in Remarks) hydrophytic vegetation and edrology must be present.
Type:	OGY ydrology Indicators: dicators (any one indice		Salt Crust	, ,		Seconda Wat	ary Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
Saturat Water Sedime Drift De Surface Inunda Water-	Vater Table (A2) tion (A3) Marks (B1) (Nonriver) ent Deposits (B2) (Nonriver) eposits (B3) (Nonriver) e Soil Cracks (B6) ation Visible on Aerial I	nriverine) rine)	Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Place blain in Remarks)	24)	Drai	Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) If the Burrows (C8) For a Aerial Imagery (C9) Illow Aquitard (D3) C-Neutral Test (D5)
Field Obse		es No		ches):			

US Army Corps of Engineers

Project/Site: Rough Acres Ranch			City/Co	ounty: <u>Bouleva</u>	rd/San Diego Coun	ty Sa	impling Date: 1	1/26/13	i
Applicant/Owner: Hamann Compan	nies				State:CA	Sa	mpling Point:	19	
Investigator(s):Thomas Liddicoat			Section	n, Township, R	ange: Live Oak Spr	 ings, 16	E/17S/7		
Landform (hillslope, terrace, etc.):			Local	relief (concave	, convex, none): None)	Slo	pe (%):	
Subregion (LRR):C - Mediterranea	n California	Lat:	-		Long:		 Datu	m:	
Soil Map Unit Name:					0NWI cla	ssificatio	on:		
Are climatic / hydrologic conditions or	n the site typical for this	s time of ve	ear? Ye	es (•) No	(If no, explain	in Rem	arks.)		
		ignificantly			"Normal Circumstand			No	\circ
		aturally pr			needed, explain any a				\circ
SUMMARY OF FINDINGS -	Attach site map s	showing	j samp	oling point	locations, transe	ects, in	nportant te	atures,	, etc.
Hydrophytic Vegetation Present?	Yes 🕟 No	0							
Hydric Soil Present?		0		Is the Sample	ed Area				
Wetland Hydrology Present?	Yes No	0		within a Wetla		\circ	No 💿		
Remarks:Pit within mapped Tan									
Depleted matrix found					ing non-native grass	sland ar	ıd alkali mea	dow; hy	/dric
soil indicator is not use	ed to define jurisdict	ional wet	tland bo	oundaries.					
VEGETATION									
VEGETATION		A l l (-	D	and Indicates	D				
Tree Stratum (Use scientific name	es.)	Absolute % Cover	Speci	nant Indicator es? Status	Number of Domina				
1. Tamarisk sp.	,	60	Yes	FAC	That Are OBL, FA				(A)
2.					Total Number of D	aminant			, ,
3.					 Total Number of D Species Across AI 		4		(B)
4.					Percent of Domina	nt Spac	00		
	Total Cove	r: 60 %			That Are OBL, FA			.0 %	(A/B)
Sapling/Shrub Stratum					Prevalence Index	u e el ce le			
1. 2.		-			Total % Cover		Multipl	v hv:	
3.			-		OBL species	OI.	x 1 =	0	-
4.					FACW species	30	x 2 =	60	
5.					FAC species	60	x 3 =	180	
	Total Cover	: %			FACU species	00	x 4 =	0	
Herb Stratum					UPL species	35	x 5 =	175	
¹ ·Brassica sp.		20	Yes	Not Listed	Column Totals:	125	(A)	415	(B)
² ·Juncus mexicanus		5	No	FACW			D./A		
³ ·Erodium cicutarium		15	Yes	UPL	Prevalence I			3.32	
4.Distichlis spicata		25	Yes	FACW	Hydrophytic Vego Dominance Te				
5			_		Prevalence In				
6					Morphological			sunnorti	na
7. 8.							on a separate		119
o. ————————————————————————————————————	Total Cover				Problematic H	lydrophy	tic Vegetation ¹	(Explain	ı)
Woody Vine Stratum	Total Cover	65 %							
1.					¹ Indicators of hydr	ic soil a	nd wetland hy	drology r	must
2.					be present.				
	Total Cover	: %			Hydrophytic				
% Bare Ground in Herb Stratum	30 % % Cover	of Biotic (Crust	%	Vegetation Present?	Yes (No ()	
Remarks:			_						

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Color (moist) % Loc² Texture³ (inches) Type¹ Remarks 100 0 - 1410 YR 5/2 Loamy Sand living roots present in upper 8" ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Depleted Matrix (F3) Other (Explain in Remarks) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ⁴Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soil Present?** Yes (No (Remarks: **HYDROLOGY**

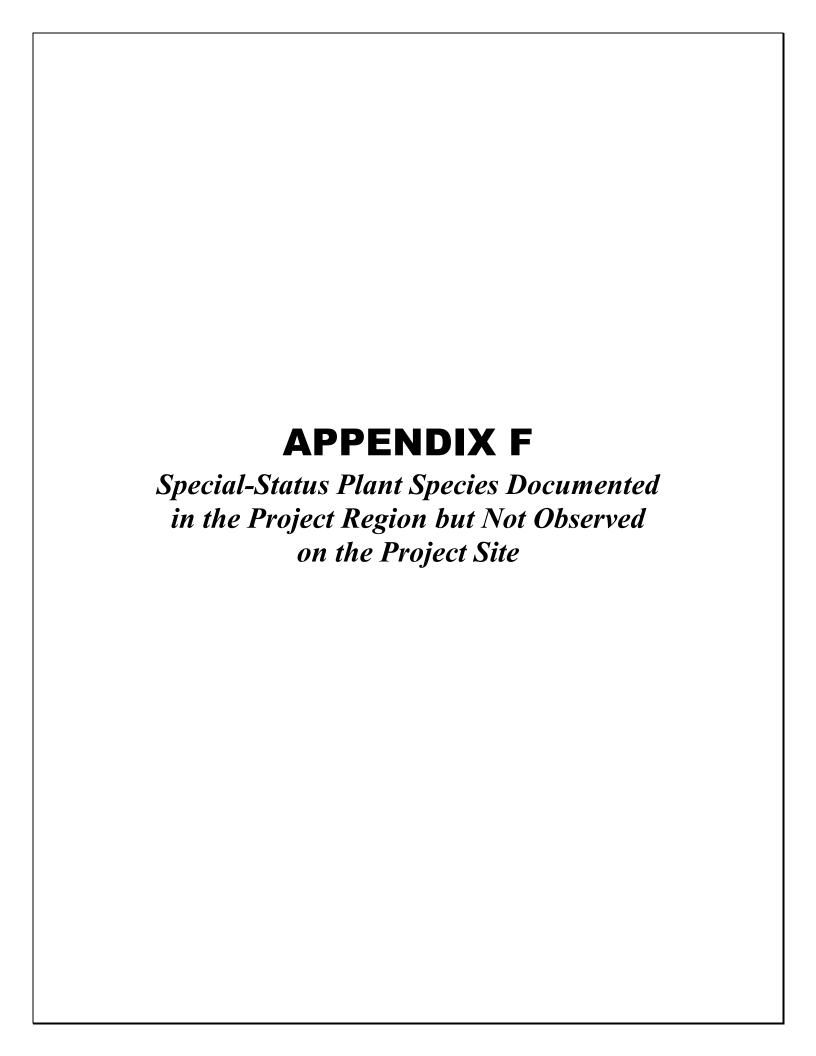
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	rust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquation	c Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrog	gen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidize	ed Rhizospheres along Living Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	nce of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	t Iron Reduction in Plowed Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other	(Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth	(inches):	
Water Table Present? Yes No Depth	(inches):	
	(inches):	trata and Brancourity Many Co. No. Co.
(includes capillary fringe)	•	drology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aer	nai photos, previous inspections), ir availa	DIE:
Remarks:		

Project/Site: Rough Acres Ranch			City/Co	ounty:Boulevar	rd/San Diego Coun	ity Sa	ampling Date:]	1/26/13	
Applicant/Owner: Hamann Compani	ies				State:CA	Sa	ampling Point:	20	
Investigator(s): Thomas Liddicoat			Section	n, Township, Ra	ange: Live Oak Spr	—— ings, 16	5E/17S/7		
Landform (hillslope, terrace, etc.):			Local	relief (concave,	convex, none):None)	Slo	pe (%):	
Subregion (LRR):C - Mediterranean	California	Lat:	-	,	Long:		———— Datu	· · · · -	
Soil Map Unit Name:	Cumomu				_	ssification			
Are climatic / hydrologic conditions on	the site trained for this	time of w	00°2 V0	no 🕞 No (
									_
		gnificantly			"Normal Circumstand) No	0
Are Vegetation Soil or	Hydrology na	aturally pr	oblemat	tic? (If n	eeded, explain any a	nswers i	n Remarks.)		
SUMMARY OF FINDINGS - A	Attach site map s	howing	samp	oling point l	ocations, transe	ects, in	nportant fe	atures,	etc.
Lhudronhutia Vanatatian Dassaut?	Voc C No								
Hydrophytic Vegetation Present? Hydric Soil Present?	_			la tha Campla	d Araa				
Wetland Hydrology Present?				Is the Sampled within a Wetla		\circ	No (•)		
Remarks: Pit within mapped Tam			I		nd? Yes		NO (
Depleted matrix found to					ng non-native grass	sland ar	nd alkali mea	idow: hv	dric
soil indicator is not used								,,	
VEGETATION									
		Absolute		ant Indicator	Dominance Test	worksh	eet:		
Tree Stratum (Use scientific names	s.)	% Cover	Specie		Number of Domina				
1. Tamarisk sp.		50	Yes	FAC	That Are OBL, FA	CW, or F	AC:	1	(A)
2					Total Number of D				
3					Species Across Al	l Strata:	3	3	(B)
4		70			Percent of Domina				
Sapling/Shrub Stratum	Total Cover:	50 %			That Are OBL, FA	CW, or F	FAC: 33	3.3 %	(A/B)
1.Ambrosia psilostochya		1			Prevalence Index	worksh	neet:		
2.Artemisia tridentata		1			Total % Cove	r of:	Multip	ly by:	_
3.				 -	OBL species		x 1 =	0	
4.				<u></u>	FACW species	15	x 2 =	30	
5					FAC species	50	x 3 =	150	
Herb Stratum	Total Cover:	2 %			FACU species	20	x 4 =	80	
		10	NI.		UPL species	60	x 5 =	300	
1.Brassica sp.		10	No	Not Listed	_ Column Totals:	145	(A)	560	(B)
2. Juncus mexicanus 3. Erodium cicutarium		$\frac{15}{40}$	$\frac{\text{No}}{\text{Yes}}$	FACW	Prevalence I	ndex =	B/A =	3.86	
4. Sisymbrium altissimum		$\frac{40}{20}$	$\frac{1 \text{ es}}{\text{Yes}}$	UPL FACU	Hydrophytic Veg	etation l	ndicators:		
5. Bromus madritensis		$\frac{20}{10}$	$\frac{1 \text{ cs}}{\text{No}}$	Not Listed	Dominance To	est is >5	0%		
6.			-110	- Tot Eisted	Prevalence In	dex is ≤	3.0 ¹		
7.					Morphologica				ng
8.							on a separate	,	
	Total Cover:	95 %			Problematic F	lydrophy	tic Vegetation	' (Explain)
Woody Vine Stratum		75 70			1				
1					¹ Indicators of hyden be present.	ric soil a	ind wetland hy	rarology r	nust
2									
	Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum	2 % % Cover	of Biotic (Crust	%	Present?	Yes (No (•	
Remarks:									

SOIL Sampling Point: 20

Profile Des	scription: (Describe t	to the depth	needed to document	the indicator o	r confirm	the absence of	indicators.)	
Depth	Matrix		Redox Fea		1 2	Taustuma 3	Da	
(inches)	Color (moist)		Color (moist)	% Type ¹	Loc ²	Texture ³	-	marks
0-3	7.5 YR 3/1					Sandy Clay Loam	living roots pre	sent
3-12	10 YR 3/2	_100				Loamy Sand	few roots	
	<u> </u>		· -				-	
	<u> </u>			<u> </u>			·	
1Tuno: C. (Concentration D. Donl		advocal Motrice 21 - a		Lining D	C. Dant Channel	NA Matrix	
	Concentration, D=Depl res: Clay, Silty Clay, S					C=Root Channel, m, Silty Clay Loar		pamy Sand, Sand.
	Indicators: (Applicabl						Problematic Hydric	
Histoso	`	•	Sandy Redox (S5	•			k (A9) (LRR C)	
	Epipedon (A2)		Stripped Matrix (. ,			k (A10) (LRR B)	
	Histic (A3)		Loamy Mucky M				Vertic (F18)	
	gen Sulfide (A4)	•\	Loamy Gleyed N				nt Material (TF2)	
	ed Layers (A5) (LRR C luck (A9) (LRR D)	•)	➤ Depleted Matrix Redox Dark Sur			Other (Ex	plain in Remarks)	
	ed Below Dark Surface	e (A11)	Depleted Dark S	` '				
	Dark Surface (A12)	, ,	Redox Depressi	, ,				
	Mucky Mineral (S1)		Vernal Pools (F9	9)			hydrophytic vegetat	
	Gleyed Matrix (S4)					wetland hy	drology must be pre	esent.
	Layer (if present):							
Type:								
Depth (ii	nches):					Hydric Soil Pr	esent? Yes 💿	No 🔘
Remarks:								
HYDROLO	OGY							
Wetland Hy	ydrology Indicators:					Seconda	ry Indicators (2 or n	nore required)
Primary Ind	licators (any one indica	ator is sufficie	nt)			Wate	er Marks (B1) (Rive	rine)
Surface	e Water (A1)		Salt Crust (B11)		Sedi	ment Deposits (B2)	(Riverine)
High W	/ater Table (A2)		Biotic Crust (B	12)		Drift	Deposits (B3) (Rive	erine)
	tion (A3)		Aquatic Inverte	, ,			nage Patterns (B10	,
	Marks (B1) (Nonriveri	,	Hydrogen Sulfi	` '			Season Water Tabl	
	ent Deposits (B2) (Nor			spheres along L	Ü	` ′ 🗀	Muck Surface (C7)	
	eposits (B3) (Nonriver e Soil Cracks (B6)	ine)		educed Iron (C4) eduction in Plowe			rfish Burrows (C8) rration Visible on Ae	orial Imagany (CO)
	tion Visible on Aerial I	magery (R7)	Other (Explain		eu Solis (C	·	low Aquitard (D3)	mai imagery (C9)
	Stained Leaves (B9)	nagery (D7)	Other (Explain	iii iteinaiks)			-Neutral Test (D5)	
Field Obse	` '							
		es No	Depth (inches)):				
Water Table		es No		´ ———				
Saturation I		es No		´				
	apillary fringe)			·		and Hydrology P	resent? Yes (No ●
Describe R	ecorded Data (stream	gauge, monit	oring well, aerial photo	os, previous insp	ections),	if available:		
Remarks:								

US Army Corps of Engineers



Appendix F Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Acmispon [=Lotus] haydonii Pygmy lotus	None/None/List A, MSCP/1B.3	Pinyon and juniper woodland, Sonoran desert scrub; rocky/perennial herb/January– June/1,706 to 3,937 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c). The project site is not within the known geographic range of the species and would have been observed during surveys.
Astragalus insularis var. harwoodii Harwood's milkvetch	None/None/List B, MSCP/2.2	Desert dunes, Mojavean desert scrub; sandy or gravelly/annual herb/January–May/0 to 2,329 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c) at elevations below that of the project site. The project site is not within the known geographic or elevational range of the species.
Ayenia compacta California ayenia	None/None/List B/2.3	Mojavean desert scrub, Sonoran desert scrub; rocky/perennial herb/March–April/492 to 3,593 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c). The project site is not within the known geographic range of the species and would have been observed during surveys.

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Berberis fremontii [=B. higginsiae] Fremont barberry	None/None/List C, MSCP/3	Chaparral , Joshua tree "woodland", pinyon and juniper woodland; rocky/evergreen shrub/April– June/2,756 to 6,070 feet	No	Not Expected	Species known to occur nearby, less than 2 miles from project site (CDFG 2012c). Additionally, the project site is within the known elevational range with suitable vegetation communities present on site. However, this is a conspicuous tree that is easily detected and no Berberis species were observed on site during surveys (AECOM 2012b). Therefore, due to the comprehensive floristic surveys conducted on site, this species is not expected to occur.
Brodiaea orcuttii Orcutt's brodiaea	None/None/List A, MSCP/1B.1	Closed-cone coniferous forest, chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, vernal pools; mesic, clay, sometimes serpentine/bulbiferous herb/May–July/98 to 5,551 feet	No	Not Expected	Project site within known elevational range of species and vegetation on site is suitable habitat for species. However, project site is approximately 14 miles from known occurrences (CDFG 2012c), and a comprehensive floristic survey was conducted on site during this species'

Table 1
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Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					blooming period; therefore, this species is not expected to occur.
Bursera microphylla Little-leaf elephant tree	None/None/List B, MSCP /2.3	Sonoran desert scrub; rocky/deciduous tree/June– July/656 to 2,297 feet	No	Not Expected	This easily observable species is restricted to the Sonoran desert (Jepson Flora Project 2012a) and known to occur at elevations below that of the project site. This distinctive species would have been observed during comprehensive floristic surveys.
Calochortus dunnii Dunn's mariposa lily	None/SR/List A, MSCP/1B.2	Closed-cone coniferous forest, chaparral, valley and foothill grassland; gabbroic or metavolcanic, rocky/bulbiferous herb/April–June/607 to 6,004 feet	No	Not Expected	Project site within known elevation range of species and vegetation on site is suitable habitat for species. However, project site is approximately 14 miles from known occurrences (CDFG 2012c) and a comprehensive floristic survey was conducted on site during this species blooming period; therefore, this species is not expected to occur.
Ceanothus verrucosus Wart-stemmed ceanothus	None/None/List B/2.2	Chaparral/evergreen shrub/December–May/3.3 to 1,247 feet	No	Not Expected	Species is known to occur at elevations below that of the project site and 9 miles



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Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					west of the project site (CDFG 2012c). Additionally, this evergreen shrub would have been observed during comprehensive floristic surveys.
Chaenactis parishii Parish's chaenactis	None/None/List A, MSCP/1B.3	Chaparral; rocky/perennial herb /May-July/4,265 to 8,202 feet	No	No Expected	Known occurrences closest to project within the Laguna and Cuyamaca Mountains (CDFG 2012c), approximately 17 miles northwest of project site. Species known to occur at elevations above (i.e., approximately 600 feet) that of the project site. In addition, because this species was not observed on site during surveys, it is not expected to occur on site.
Chorizanthe leptotheca Peninsular spineflower	None/None/List D/4.2	Chaparral, coastal scrub, lower montane conifer forest; alluvial fan, granitic/annual herb/May–August/1,309 to 6,234 feet	No	Low	Known occurrences, from 1941, closest to project, approximately 5 to 10 miles southwest of the project site (SDNHM 2012a). Project site within the known elevation range of species, and vegetation on site is suitable habitat

Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					for species. Because the project site lies within the known elevational range with suitable vegetation communities present on site, is known to occur near the project site, and this species can be difficult to detect (i.e., annual herb), the potential to occur on site is low versus not expected.
Cylindropuntia (=Opuntia) x fosbergii Pink cholla	None/None/MSCP/List 3	Sonoran desert scrub/stem succulent/March–May/279 to 2,789 feet	No	Not Expected	This easily observable species is restricted to the Sonoran desert (Jepson Flora Project 2012a) and known to occur at elevations below that of the project site. Additionally, it is a conspicuous succulent that, if present on site, would have been easily observed during rare plant surveys.
Delphinium hesperium ssp. cuyamacae Cuyamaca larkspur	None/SR/List A, MSCP/1B.2	Lower montane coniferous forest, meadows and seeps, vernal pools; mesic areas/perennial herb/May–July/4,003 to 5,351 feet	No	Not Expected	Within San Diego County, the southernmost known occurrence of this species is in the northern portion of the Laguna Mountains, 12 miles north of the project site, and extends north to the



 ${\bf Table~1}$ Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					Cuyamaca and Palomar Mountains (CDFG 2012c). Species known to occur at elevations just above (i.e., 330 feet) that of the project site. Species not observed during comprehensive floristic surveys; therefore, not expected to occur.
Dieteria [=Machaeranthera] asteroides var. lagunensis Mount Laguna aster	None/SR/List B, MSCP/2.1	Cismontane woodland, lower montane coniferous forest/perennial herb/July–August/2,625 to 7,874 feet	No	Low	The majority of the known occurrences are located in the Laguna Mountains. There is one record of the species from 1948 that is located approximately 6 miles southeast of the project site; however, more field work needs to be done to verify presence of this occurrence (CDFG 2012c). Because the project site lies within the known elevational range with suitable vegetation communities present on site, is known to occur near the project site, albeit an old record, and this species can be difficult to detect (i.e., herb), the potential to occur on site is low versus not expected.

 ${\bf Table~1}$ Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Ericameria cuneata var. macrocephala Laguna Mountains goldenbush	None/None/List A, MSCP/1B.3	Chaparral; granitic/shrub/ September–December/3,921 to 6,070 feet	No	Not Expected	Known occurrences of species restricted within or near the Laguna Mountains (CDFG 2012c). Species known to occur at elevations just above (i.e., 250 feet) that of the project site. Easily detectable species not observed during comprehensive floristic surveys.
Eucnide rupestris Rock nettle	None/None/List B/2.2	Sonoran desert scrub/annual herb/December–April/1,640 to 1,969 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c) at elevations below that of the project site. The project site is not within the known geographic or elevational range of the species. Additionally, this species was not observed during comprehensive floristic surveys.
Galium angustifolium ssp. jacinticum San Jacinto Mountains bedstraw	None/None/List A/1B.3	Lower montane coniferous forest/perennial herb/June– August/4,429 to 6,890 feet	No	Low	Known occurrence approximately 2 miles east of the project site (CDFG 2012c); recorded in the Laguna Mountains, Volcan Mountain, and near Boulevard (SDNHM

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Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					2012a). While the species is known to occur at elevations above that of the project site and no lower montane coniferous forest is present on site, this species closely resembles the more common subspecies <i>Galium angustifolium</i> ssp. angustifolium which was observed on site. Therefore, the potential to occur on site is low versus not expected.
Gentiana fremontii Fremont's gentian	None/None/List 2.3	Meadows and seeps, upper montane coniferous forest/annual herb/June–August/7,874 to 8,858 feet	No	Not Expected	The known occurrences of this species are within the San Bernardino Mountains (Jepson Flora Project 2012a), over 100 miles away from the project, and the known elevation range is well over that of project site (i.e., approximately 4,200 feet). Not expected to occur because the project is outside of the known elevational and geographic range of the species and would have been detected during surveys if present.

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Grindelia hallii [=G. hirsutula var. hallii] San Diego gumplant	None/None/List A/1B.2	Chaparral, lower montane coniferous forest, meadows and seeps, valley and foothill grassland/perennial herb/July–October/607 to 5,725 feet	No	Not Expected	Project site within known elevation range of species and vegetation on site is suitable habitat for species. However, the closest known occurrence is approximately 12 miles from project site in the Laguna Mountains (CDFG 2012c), and the species would have been observed is present on site.
Hesperocyparis [=Cupressus] forbesii Tecate cypress	None/None/List A, MSCP/1B.1	Closed-cone coniferous forest, chaparral; clay, gabbroic or metavolcanic/evergreen tree/NA/263 to 4,921 feet	No	Not Expected	Project site within known elevation range of species, and vegetation on site is suitable habitat for species. However, the closest known occurrence is approximately 12 miles from the project site, and the species would have been observed if present on site, since this species is a conspicuous evergreen tree.
Heuchera brevistaminea Mt. Laguna alumroot	None/None/List A, MSCP /1B.3	Broadleafed upland forest, chaparral, cismontane woodland, riparian forest; rocky/rhizomatous herb/April– July/4,495 to 6,562 feet	No	Not Expected	Known occurrences within the Laguna and Cuyamaca Mountains (CDFG 2012c), approximately 12 miles northwest of project site. Species known to occur

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					at elevations above (i.e., approximately 800 feet) that of the project site. In addition, because this species was not observed on site during comprehensive floristic surveys, it is not expected to occur on site.
Hulsea californica San Diego sunflower	None/None/List A, MSCP/1B.3	Chaparral, lower montane coniferous forest, upper montane coniferous forest; openings and burned areas/perennial herb/April–June/3,002 to 9,564	No	Low	Known occurrences approximately 10 miles from project site. Project site is within the known elevation range of species, and vegetation on site is suitable habitat for species. Because the project site lies within the known elevational range with suitable vegetation communities present on site, is known to occur near the project site and this species can be difficult to detect (i.e., herb), the potential to occur on site is low versus not expected.
Hulsea mexicana Mexican hulsea	None/None/List B, MSCP/2.3	Chaparral (volcanic, often on burns or disturbed areas)/annual- perennial herb/April-	No	Not Expected	Species known to occur on Table Mountain near Jacumba. Species known



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Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
		June/approximately 3,937 feet			to occur at elevations above (i.e., approximately 550 feet) that of the project site (CDFG 2012c). Because the project site lies outside of the known elevational range and the species was not observed during comprehensive floristic surveys, it is not expected to occur on site.
Ipomopsis tenuifolia Slender-leaved ipomopsis	None/None/List B/2.3	Chaparral, pinyon and juniper woodland, Sonoran desert scrub; gravelly or rocky/perennial herb/March–May/328 to 3,937 feet	No	Not Expected	Species known to occur less than 4 miles southeast of project (SDNHM 2012a). Project site is within the known elevation range of species, and vegetation on site is suitable habitat for species. However, species is easily detectable (i.e., has bright red showy flowers) and was not observed during comprehensive floristic surveys; therefore, not expected to occur.
Juncus acutus var. leopoldii Southwestern spiny rush	None/None/List D/4.2	Coastal dunes (mesic), meadows and seeps (alkaline seeps), coastal saltwater marsh/rhizomatous herb/May– June/10 to 2,953 feet	No	Not Expected	Species is known to occur less than 3 miles southeast of project (SDNHM 2012a). However, the project site is not within the known



Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					elevational range of the species. Additionally, the species is easily detectable (i.e., perennial, rigid stem with stiff, sharp, sheath appendages on leaves (Jepson Flora Project 2012b) and was not observed during comprehensive floristic surveys; therefore, not expected to occur.
Lepidium virginicum var. robinsonii Robinson pepper-grass	None/None/List A/1B.2	Chaparral, coastal scrub/annual herb/January–July/3 to 2,904 feet	No	Not Expected	Species known to occur approximately 11 miles southwest of project site. Species known to occur at elevations below that of the project site. The project site is not within the known elevational or geographical range of the species; therefore, this species is not expected to occur.
Limnanthes gracilis ssp. parishii Cuyamaca meadowfoam	None/SE/List A, MSCP/1B.2	Lower montane coniferous forest, meadows and seeps, vernal pools; vernally mesic/annual herb/April–June/1,869 to 6,562 feet	No	Not Expected	Project site within known elevational range of species, and vegetation on site is suitable habitat for species. However, project site is 12 miles from known occurrence in the Laguna Mountains (CDFG 2012c).



Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					Because the project site is not within the known geographic range of the species and species was not observed during comprehensive floristic surveys, it is not expected to occur on site.
Lupinus excubitus var. medius Mountain Springs bush lupine	None/None/List A, MSCP/1B.3	Pinyon and juniper woodland, Sonoran desert scrub/shrub/March–May/1,394 to 4,495 feet	No	Not Expected	Species known to occur nearby, less than 2 miles from project site (CDFG 2012c; SDNHM 2012a). Additionally, the project site is within the known elevational range with suitable vegetation communities present on site. However, this is a shrub that is easily detected and no Lupinus excubitus were observed on site during surveys (AECOM 2012b). Therefore, due to the comprehensive floristic surveys conducted on site, this species is not expected to occur.
Lycium parishii Parish's desert-thorn	None/None/List B, MSCP/2.3	Coastal scrub, Sonoran desert scrub/shrub/March–April/1,001 to 3,281 feet	No	Not Expected	Within San Diego County, this species is known to occur in the Sonoran



Appendix F (Continued)

Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					desert (Jepson Flora Project 2012a; CDFG 2012c). The project site is not within the known geographic range of the species. Additionally, this shrub is easily detected, and therefore, due to the comprehensive floristic surveys conducted on site, this species is not expected to occur.
Malperia tenuis Brown turbans	None/None/List B/2.3	Sonoran desert scrub; sandy, gravelly/annual herb/March— April/49 to 1,099 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c) at elevations below that of the project site. The project site is not within the known geographic or elevational range of the species.
Mentzelia hirsutissima Hairy stickleaf	None/None/List B/2.3	Sonoran desert scrub; rocky/annual herb/March–May/0 to 2,297 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c) at elevations below that of the project site. The project site is not within the known geographic or elevational range of the species.



Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Monardella nana ssp. leptosiphon San Felipe monardella	None/None/List A, MSCP/1B.2	Chaparral, lower montane coniferous forest/rhizomatous herb/June–July/3,937 to 6,086 feet	No	Not Expected	The known occurrence closest to the site is near the Cuyamaca Mountains, approximately 20 miles north of the project site (CDFG 2012c). Species known to occur at elevations above (i.e., 400 feet above) that of the project site). Species is not expected to occur because it is outside of the known elevational and geographic range of the species and was not observed during floristic surveys.
Pentachaeta aurea ssp. aurea Golden-rayed pentachaeta	None/None/List D/4.2	Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland, valley and foothill grassland/annual herb/March–July/262 to 6,070 feet	No	Not Expected	Project site within known elevational range of species, and vegetation on site is suitable habitat for species. However, project site is 17 miles from known occurrence (SDNHM 2012a). Because the project site is not within the known geographic range of the species and it was not observed during comprehensive floristic surveys, this species is not expected to occur on site.

Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Pholistoma auritum var. arizonicum Arizona pholistoma	None/None/MSCP/List 2.3	Mojavean desert scrub/annual herb/March/902 to 2,740 feet	No	Not Expected	Species known to occur at elevations below that of the project. However, there is a known occurrence less than 4 miles southeast of the project site (CDFG 2012c). Because the project site is not within the known elevational range of the species and it was not observed during comprehensive floristic surveys, this species is not expected to occur on site.
Pilostyles thurberi Thurber's pilostyles	None/None/List D/4.3	Sonoran desert scrub/perennial herb parasitic/January/0 to 1,198 feet	No	Not Expected	This species is known to occur in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c) at elevations below that of the project site. The project site is not within the known geographic or elevational range of the species. Additionally, this species is parasitic to Psorothamnus species (Baldwin et al. 2002), which does not occur on site (AECOM 2012b)
Poa atropurpurea San Bernardino bluegrass	FE/None/List A, MSCP/1B.2	Meadows and seeps; mesic/rhizomatous herb/May–	No	Not Expected	Known occurrences closest to project approximately 14



Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
		July/4,492 to 8,054 feet			miles northwest of project site. Species known to occur at elevations above (i.e., approximately 960 feet) that of the project site. The project site is not within the known elevational range of the species and was not observed on site during floristic surveys; therefore, it is not expected to occur on site.
Ribes canthariforme Moreno currant	None/None/List A, MSCP/1B.3	Chaparral, riparian scrub/deciduous shrub/February–April/1,115 to 3,937 feet	No	Not Expected	Project site is approximately 14 miles from known occurrences (CDFG 2012c). The project site is within the known elevational range with suitable vegetation communities present on site. However, this species is a shrub that would have been detected, and no unidentified <i>Ribes</i> species were observed on site during the comprehensive floristic surveys conducted on site; therefore, this

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					species is not expected to occur.
Saltugilia [=Gilia] caruifolia Caraway-leaved gilia	None/None/List D/4.3	Chaparral, lower montane coniferous forest; sandy, openings/annual herb/May–August/2,756 to 7,546 feet	No	Low	Project site is approximately 4 miles from known occurrences (SDNHM 2012a). Additionally, project site is within known elevational range of species, and vegetation on site is suitable habitat for species. Because the project site lies within the known elevational range with suitable vegetation communities present on site, and the species is known to occur near the project site and can be difficult to detect (i.e., annual herb), the potential to occur on site is low versus not expected.
Scutellaria bolanderi ssp. austromontana Southern skullcap	None/None/List A/1B.2	Chaparral, cismontane woodland, lower montane coniferous forest; mesic/rhizomatous herb/June–August/1,394 to 6,562 feet	No	Not Expected	Project site is within known elevational range of species, and vegetation on site is suitable habitat for species. However, the project site is 12 miles from known occurrence (CDFG 2012c). Because the



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					project site is not within the known geographic range of the species and it was not observed during comprehensive floristic surveys, this species is not expected to occur on site.
Selaginella eremophila Desert spike-moss	None/None/List B/2.2	Chaparral, Sonoran desert scrub; gravelly or rocky/rhizomatous herb/June/656 to 2,953 feet	No	Not Expected	The majority of the known occurrences are in the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c). There is one record approximately 3 miles from the project site at the Walker Canyon Ecological Reserve (SDNHM 2012a). This species occurs at elevations below that of the project site. Because the species is known to occur at elevations below that of the project site and was not observed during comprehensive floristic surveys, this species is not expected to occur.
Senecio aphanactis Rayless ragwort	None/None/List B/2.2	Chaparral, cismontane woodland, coastal scrub; sometimes alkaline/annual herb/January–April/49 to 262 feet	No	Not Expected	Known occurrence approximately 5 miles from project site; however, the majority of the occurrences are much farther west (i.e.,



Table 1 Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					over 30 miles) (CDFG 2012c). Because the species is known to occur at elevations below that of the project site and it was not observed during comprehensive floristic surveys, this species is not expected to occur.
Streptanthus bernardinus Laguna Mountains jewelflower	None/None/List D/4.3	Chaparral, lower montane coniferous forest/perennial herb/May–August/2,198 to 8,202 feet	No	Not Expected	Project site is within known elevational range of species, and vegetation on site is suitable habitat for species. However, project site is 14 miles from known occurrence in the Laguna Mountains (CDFG 2012c). Because the project site is not within the known geographic range of the species and it was not observed during comprehensive floristic surveys, this species is not expected to occur on site.
Streptanthus campestris Southern jewelflower	None/None/List A/1B.3	Chaparral, lower montane coniferous forest, pinyon and juniper woodland; rocky/perennial herb/May– July/2,953 to 7,546 feet	No	Low	Project site is close to known occurrences (i.e., approximately 1 mile from the site) (CDFG 2012c); there is another record approximately 3 miles



 ${\bf Table~1}$ Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					from the project site at the Walker Canyon Ecological Reserve (SDNHM 2012a). Project site is within known elevational range of the species, and vegetation on site is suitable habitat for species. Because the project site lies within the known elevational range with suitable vegetation communities present on site, the species is known to occur near the project site and can be difficult to detect (i.e., herb), potential to occur on site is low versus not expected.
Symphyotrichum defoliatum San Bernardino aster	None/None/None/1B.2	Cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, and valley and foothill grassland; vernally mesic; near ditches, streams, and springs/rhizomatous herb/July–November/7 to 6,693 feet	No	Low	Project site is close to known occurrences (i.e., less than 1 mile from the site) (CDFG 2012c); there is another record near Boulevard (SDNHM 2012a). Project site is within known elevational range of the species, and vegetation on site is suitable habitat for species. Because the project site

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					lies within the known elevational range with suitable vegetation communities present on site, the species is known to occur near the project site and can be difficult to detect (i.e., herb), potential to occur on site is low versus not expected.
Tetracoccus dioicus Parry's tetracoccus	None/None/List A/1B.2	Chaparral, coastal sage scrub/deciduous shrub/April– May/541 to 3,281 feet	No	Not Expected	Species is known to occur at elevations below that of the project site (CDFG 2012c). Additionally, this evergreen shrub would have been observed during comprehensive floristic surveys; therefore, this species is not expected to occur on site.
Thermopsis californica var. semota Velvety false lupine	None/None/List A/1B.2	Cismontane woodland, lower montane coniferous forest, meadows and seeps, valley and foothill grassland/rhizomatous herb/March–June/3,281 to 6,135 feet	No	Not Expected	Closest known occurrence of this species is in the Laguna Mountains, 12 miles north of the project site (CDFG 2012c). The project site is within the known elevational range with suitable vegetation communities present on site. However, while this species is an herb, it is

 ${\bf Table~1}$ Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
					fairly large (0.98 to 1.6 feet) and has bright, showy yellow flowers (Jepson Flora Project 2012b), making it easily detected. Additionally, no <i>Thermopsis</i> species were observed on site during surveys (AECOM 2012b). Therefore, due to the comprehensive floristic surveys conducted on site, this species is not expected to occur.
Thysanocarpus rigidus Rigid fringepod	None/None/List 1B.2	Pinyon and juniper woodland, dry rocky slopes/annual herb/Feb–May/1,968.5 to 7,218 feet	No	Not Expected	Closest known occurrence of this species is in the Laguna Mountains, 14 miles north of the project site (CDFG 2012c). The project site is within the known elevational range, but there is no pinyon and juniper woodland on the project site. The project site is not within the geographical range of the species and lacks suitable habitat, and it was not observed during comprehensive floristic surveys; therefore, this species is not expected to occur.

Appendix F (Continued)

Table 1
Special-Status Plant Species Documented in the Project Region but Not Observed on the Project Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/ indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Xylorhiza orcuttii Orcutt's woody aster	None/None/List A, MSCP/1B.2	Sonoran desert scrub/perennial herb/March–April/0 to 1,197.5 feet	No	Not Expected	All but one known occurrence of this species is within the Sonoran desert (Jepson Flora Project 2012a; CDFG 2012c). There is one occurrence from the 1920s mapped in the Peninsular ranges on the edge of the Sonoran desert, along Banner Grade near Julian. The project site is not within the known geographic or elevational range of the species, and it would have been observed during surveys.

¹Legend

FE: Federally listed as endangered FT: Federally listed as threatened

FC: Federal Candidate

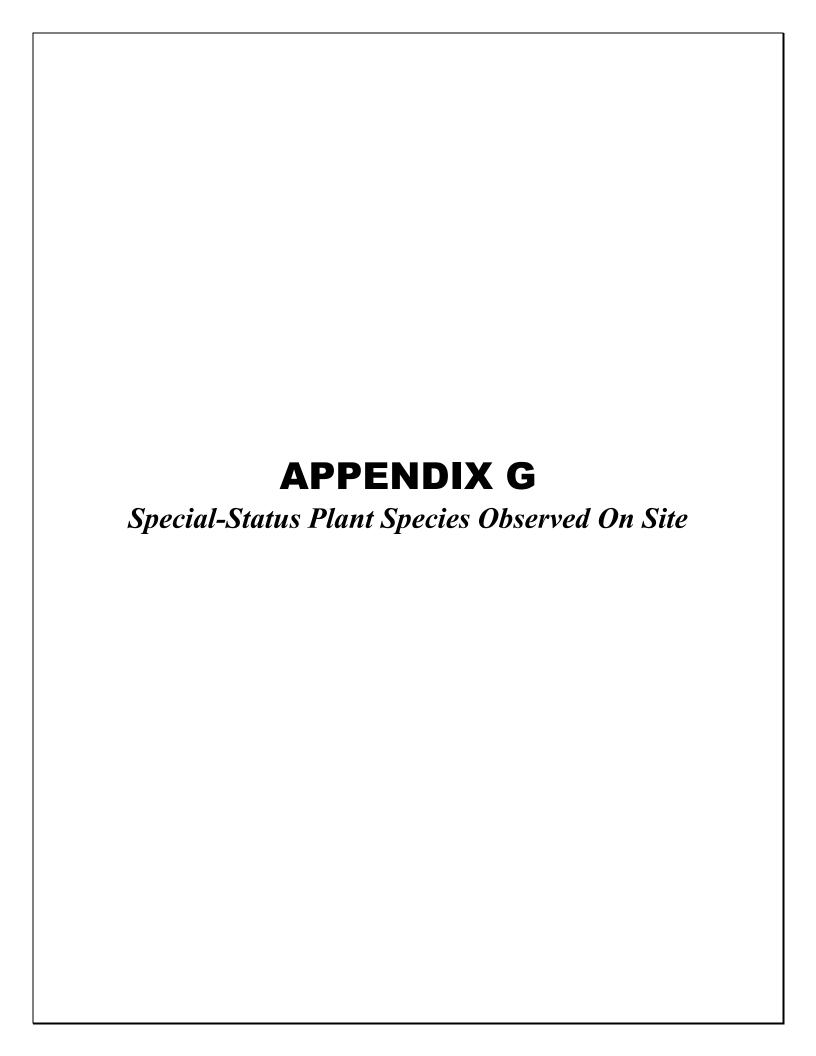
MSCP: Draft Covered Species under the ECMSCP

SE: State listed as endangered ST: State listed as threatened

SR: State listed as rare

Bold indicates species that were identified in the County's Pre-Application Summary Letter (County 2011).





Appendix G Special-Status Plant Species Observed On Site

Table 1 Special-Status Plant Species Observed On Site

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Astragalus douglasii var. perstrictus Jacumba milk-vetch	None/None/List A, MSCP/1B.2	Chaparral, cismontane woodland, pinyon and juniper woodland, riparian scrub, valley and foothill grassland; rocky/perennial herb/April– June/2,953 to 4,495 feet	Observed	Not Applicable (N/A)	Observed on site in numerous locations within open scrub and chaparral habitats (AECOM 2012b).
Caulanthus simulans Payson's jewel-flower	None/None/List D, MSCP/4.2	Chaparral, coastal scrub; sandy and granitic/annual herb/March-May/295 to 7,218 feet	Observed	N/A	Observed in one location on site within semidesert chaparral with rock outcrops (AECOM 2012b).
Deinandra [=Hemizonia] floribunda Tecate tarplant	None/None/List A, MSCP/1B.2	Chaparral, coastal scrub/annual herb/August– October/230 to 4,003 feet	Observed	N/A	Observed on site within sandy washes and dry ponds (AECOM 2012b).
Delphinium parishii ssp. subglobosum Desert larkspur	None/None/List D/4.3	Chaparral, cismontane woodland, pinyon and juniper woodland, Sonoran desert scrub/perennial herb/March– June/1,969 to 5,906 feet	Observed	N/A	Observed throughout the site in chaparral and scrub habitats (AECOM 2012b).
Geraea viscida Sticky geraea	None/None/List B, MSCP/2.3	Chaparral (often disturbed)/perennial herb/May– June/1,476 to 5,577 feet	Observed	N/A	Observed on site in various open scrub and chaparral habitats (AECOM 2012b).
Lathyrus splendens Pride of California	None/None/List D, MSCP/4.3	Chaparral/perennial herb/March-June/656 to 5,003	Observed	N/A	Observed on site in several locations within chaparral habitats (AECOM 2012b).

Appendix G (Continued)

Table 1 **Special-Status Plant Species Observed On Site**

Scientific Name Common Name	Sensitivity Code & Status (Federal/State/County/CRPR)¹	Habitat Requirements/Life Form/Blooming Period/Elevational Range	Verified on Site (direct/indirect evidence)	Potential to Occur on Site	Factual Basis for Determination
Linanthus bellus Desert beauty	None/None/List B, MSCP/2.3	Chaparral; sandy/annual herb/April-May/3,281 to 4,593 feet	Observed	N/A	Observed on site in gravelly granitic openings of chaparral and scrub habitats (AECOM 2012b).
Mimulus aurantiacus var. aridus Desert monkey flower	None/None/List D, MSCP/4.3	Chaparral, rocky; Sonoran desert scrub/evergreen shrub/April-July/2,461 to 3,937 feet	Observed	N/A	Observed on site in rocky outcrops of semidesert chaparral (AECOM 2012b).
Quercus engelmannii Engelmann oak	None/None/List D, MSCP/4.2	Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland/deciduous tree/March–June/164 to 4,265 feet	Observed	N/A	Observed in two locations on site (AECOM 2012b).

¹Legend

FE: Federally listed as endangered FT: Federally listed as threatened

FC: Federal Candidate

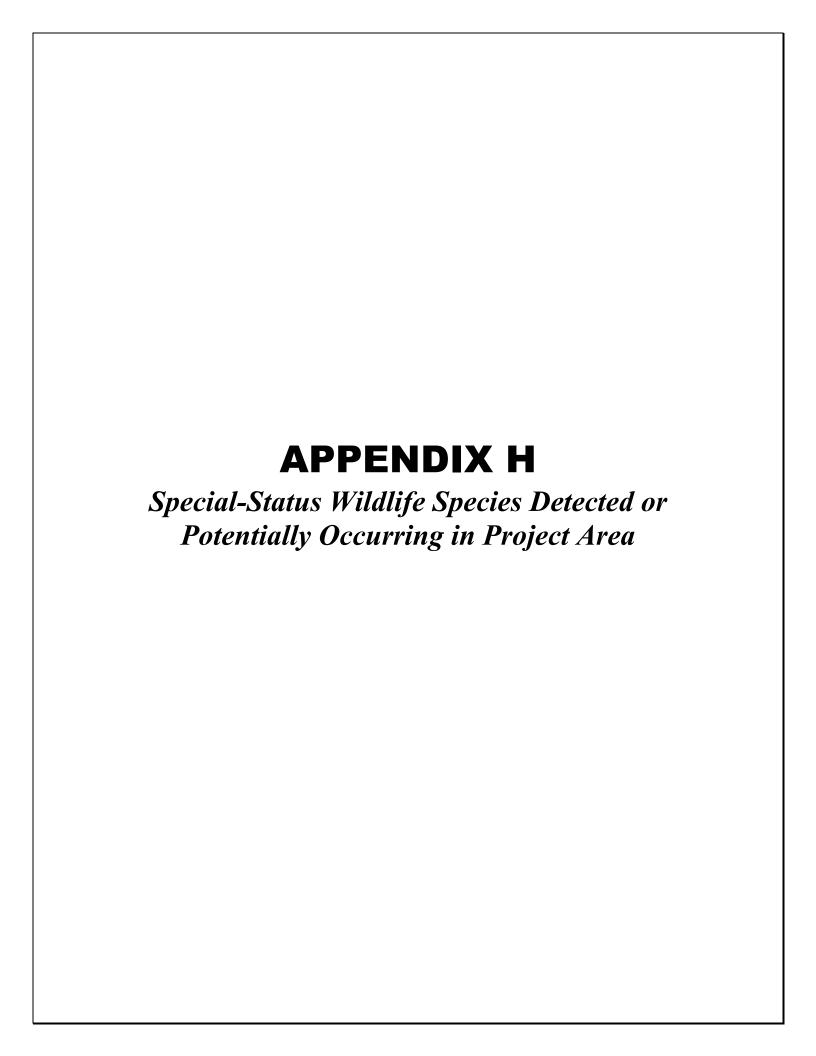
MSCP: Draft Covered Species under the ECMSCP SE: State listed as endangered

ST: State listed as threatened

SR: State listed as rare

Bold indicates species that were identified in the County's Pre-Application Summary Letter (County 2011).





APPENDIX H Special-Status Wildlife Species Detected or Potentially Occurring in Project Area

Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination			
		Amphibians						
Ensatina eschscholtzii klauberi Large-blotched salamander	None/SSC/ Group 1, MSCP	Moist, shaded evergreen and deciduous forests; oak woodlands, under rocks, logs, debris, especially peeled off bark. Found in peninsular ranges of Southern California and eastern San Bernardino Mountains, approx. 5,003 feet (1).	No	Moderate	Some suitable habitat is present within the project area in the oak woodland habitat and rocky area; however, the site lacks large shaded areas. The project area is located within the known range (Nafis 2012). The closest CNNDB record of this species is from 1994 and is located approximately 32 miles northwest of the project area (CDFG 2012d).			
Spea [=Scaphiopus] hammondi Western spadefoot	None/SSC/ Group 2, MSCP	Sandy/gravelly soils within mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, foothills, mountains, and other habitats. Breed in rainpools that do not have bullfrogs, fish, or crayfish. Found throughout Great Valley and foothills south of Redding, throughout South Coast Ranges in Southern California south of Transverse Mountains and west of Peninsular Mountains, 0 to 4,478 feet (1).	No	High	There is suitable habitat in the project area, and spadefoot tadpoles were observed on the nearby Tule site. The closest CNDDB record for this species is from 1990 and is located approximately 29 miles west of the project area (CDFG 2012d). This species was observed just north of the project area during surveys for the Tule Wind Project (HDR 2010).			
	Reptiles							
Anniella pulchra pulchra Silvery legless lizard	None/SSC/ Group 2	Loose soils (sand, loam, humus) in coastal dune, coastal sage scrub, woodlands, and riparian habitats (1).	No	High	Suitable habitat is present within the project area. The closest CNDDB record for this species is from 2005 and is located approximately 30 miles northwest of the project area (CDFG 2012d).			



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Aspidoscelis hyperythra beldingi Belding's orange-throated whiptail	None/SSC/ Group 2, MSCP	Coastal sage scrub, chamise-redshank chaparral, mixed chaparral, valley-foothill hardwood especially in area with summer fog. Found from Santa Ana River and near Colton in San Bernardino County, west of Peninsular Ranges, south throughout Baja California, 0 to 2,001 feet (1, 2).	Observed	N/A	One occurrence recorded from the project area in semi-desert chaparral (AECOM 2012). Suitable habitat is present within the project area. Although the site does not conform to typical habitat preferences, they were observed. The two closest CNDDB records for this species are located approximately 20 miles northwest and southwest of the project area. One occurrence is from 1925 and the other does not include a recorded date (CDFG 2012d).
Aspidoscelis tigris stejnegeri Coastal whiptail	None/None/ Group 2	Hot and dry open area with sparse foliage, chaparral, woodland, riparian area. Found in coastal Southern California, west of Peninsular Ranges and south of Transverse Ranges, north to Ventura County, 0 to 6,988 feet (1, 2).	Observed	N/A	Scattered occurrences recorded within montane buckwheat scrub, granitic chamise chaparral and semi-desert chaparral (AECOM 2012). The closest CNNDB record for this species is from 1993 and is located approximately 2 miles southwest of the project area (CDFG 2012d).
Coleonyx variegatus abbotti San Diego banded gecko	None/None/ Group 1	Cismontane chaparral, coastal sage scrub, desert scrub; granite outcrops.	No	Moderate	Suitable habitat is present in the project area. The nearest CNDDB occurrence data were recorded in 1997, approximately 71 miles northwest of the project area (CDFG 2012d).
Crotalus ruber ruber Northern reddiamond rattlesnake	None/SSC/ Group 2, MSCP	Chaparral, oak and pine woodland, arid desert, rocky grassland habitats in rocky area and dense vegetation; rocky desert flats on desert slopes of mountains; Morongo Valley (1).	No	High	Suitable habitat for the northern red- diamond rattlesnake is present within the rocky outcrops observed within the semidesert chaparral habitat. Also, any area with dense vegetation provides



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
					suitable habitat, including chaparral, scrub, and woodland habitats. The closest CNNDB record is from 1993 and occurs approximately13 miles northeast of the project area (CDFG 2012d).
Diadophis punctatus similis San Diego ringneck snake	None/None/ Group 2	Moist habitats, wet meadows; rocky hillsides; open habitats such as farmland, grassland, chaparral; and mixed coniferous forests and woodlands. San Diego County, along coast and Peninsular Range, southwestern San Bernardino County (1).	No	High	Suitable chaparral and woodland habitat with rock outcroppings present on site. The two closest CNDDB records, from 2006 and 2008, are approximately 38 miles west and northwest of the project area (CDFG 2012d).
Phrynosoma blainvillii Blainville's horned lizard	None /SSC/ Group 2, MSCP	Area of sandy soil and low vegetation in valleys, foothills, and semiarid mountains. Annual grassland, chaparral, woodland, coniferous forest, sandy area, frequently near ant hills. Foothills and coastal plains from Los Angeles to northern Baja California (1, 3).	Observed	N/A	Scattered occurrences recorded from scrub and chaparral habitats within the project area (AECOM 2012b). This species was also observed just north of the project area during surveys for the Tule Wind Project (HDR 2010).
Plestiodon skiltonianus interparietalis Coronado skink	None/SSC/ Group 2, MSCP	Grassland, woodlands, pine forests, chaparral, especially open sunny areas, such as clearings and edges of creeks, and rocky areas near streams with lots of vegetation; in litter, rotting logs, under flat stones. Found in coastal ranges and Sierra Nevada and foothills, 0 to 8,300 feet (1, 2).	No	High	Suitable habitat is present within the project area. The two closest CNDDB records, from 1995 and 1996, are approximately 25 miles west and northwest of the project area (CDFG 2012d).
Charina trivirgata Rosy boa	None/None/ Group 2	Rocky chaparral hillsides and canyons, scrub flats with good cover, common in riparian area but does not require permanent water. Found in extreme Southern California within Tijuana River and Otay watersheds (1, 2).	No	High	Suitable scrub habitat with rock outcroppings present on site. The species has previously been documented approximately 2 miles southwest of the



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
					project area (CDFG 2012d). This species was also observed approximately 3 miles north of the project area during surveys for the Tule Wind Project (HDR 2010).
Salvadora hexalepis virgultea Coast patch- nosed snake	None/SSC/ Group 2, MSCP	Semi-arid, brushy area and chaparral in canyons, rocky hillsides, plains from northern Carrizo Plains south through coastal zone, south and west of the deserts into coastal northern Baja California, at elevations below sea level to 6,988 feet (1).	No	High	Suitable habitat is present within the project area. The closest CNDDB occurrence record, from 1996, is approximately 28 miles northwest of the project area (CDFG 2012d).
Thamnophis hammondii Two-striped garter snake	None/SSC/ Group 1, MSCP	Permanent or semipermanent bodies of water bordered by dense vegetation in rocky area, oak woodland, chaparral, brushland, coniferous forest. Found on Diablo Range, South Coast and Transverse Ranges, and Santa Catalina Island (1, 2).	No	High	Suitable habitat is present the project area. The closest CNDDB occurrence records, from 1999 and 2001, are located approximately 12 to 13 miles east and southeast of the project area (CDFG 2012d).
		Birds			
Accipiter cooperii Cooper's hawk (nesting)	None/WL/ Group 1, MSCP	Dense stands of live oak, riparian deciduous, forest habitats near water. Breeds in southern Sierra Nevada foothills, New York Mountains., Owens Valley, and other local area in Southern California, 0 to 8,858 feet (2).	Observed	N/A	Two occurrences observed within the project area within semi-desert chaparral habitat and several occurrences adjacent to the project area (AECOM 2012b). This species was also observed approximately 7 miles northwest of the project area during surveys for the Tule Wind Project (HDR 2010). This species was recorded in the vicinity ² (SDNHM 2012b).
Agelaius tricolor Tricolored blackbird	BCC/SSC/ Group 1, MSCP	Breeds in emergent wetland with tall, dense cattails or tules; willow, blackberry, tall herb thickets. Feeds in grassland and cropland habitats. Found throughout	No	High potential to forage on site; not expected to	A group was observed flying overhead south of the project area in 2011 (AECOM 2012b). Known nesting colonies are found



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
		Central Valley and coastal area south of Sonoma County (2).		nest on site	nearby in Jacumba, Campo, and Tule Lake. Wildflower field, seep, and non- native grassland habitat on site provides suitable foraging habitat. This species was recorded in the vicinity ² (SDNHM 2012b). No nesting habitat on site.
Aimophila ruficeps canescens Southern California rufous- crowned sparrow	None/WL/ Group 1, MSCP	Sparse mixed chaparral and coastal scrub habitats (especially coastal sage) in Southern California on slopes of Transverse and Coastal Ranges, north to Los Angeles County, and northwestern Baja California. Found on steep, rocky hillsides with grass and forb patches, and grassy slopes without shrubs, if rock outcrops are present (2, 4).	No	High	Suitable habitat is present within the project area. This species was recorded in the vicinity ² (SDNHM 2012b).
Amphispiza belli belli Bell's sage sparrow	BCC / WL/, Group 1, MSCP	Low, dense stands of shrubs; chaparral dominated by chamise; coastal scrub dominated by sage. Coast Ranges from northern California to northwestern Baja California, western slope of Sierra Nevada (2, 4).	Observed	N/A	One occurrence recorded within big sagebrush scrub (AECOM 2012b).
Aquila chrysaetos Golden eagle (nesting and wintering)	BCC/FP, WL/ Group 1, MSCP	Rolling foothills, mountain area, sage-juniper flats, and desert throughout California (2).	No	High potential to forage on site; low potential to nest on site	Suitable foraging habitat is present within most of the project area; however, low potential for nesting due to lack of rocky cliffs and large stands of mature trees. Recorded nesting sites are located in the region, but off site. There are numerous nesting locations within 10 miles as observed during surveys for the Tule Wind Project (HDR 2010). This species was recorded in the vicinity ² (SDNHM 2012b).

Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Ardea herodias Great blue heron (nesting colony)	None/None/ Group 2	Variety of habitats, but primarily shallow estuaries and fresh and saline emergent wetlands; lakes, rivers, marshes, mudflats, estuaries, saltmarsh, riparian habitats. Found throughout most of California. Few rookeries in Southern California; more numerous in Northern California (2).	Observed	Low colonial nesting potential; foraging individuals observed	This species was observed (AECOM 2012b). There are no rookeries present on site, and the site lacks suitable nesting habitat. This species is not expected to nest on site. This species was recorded in the vicinity ² (SDNHM 2012b).
Asio otus Long-eared owl (nesting)	None/SSC/ Group 1, MSCP	Riparian, live oak thickets; other dense stands of tree. Uncommon winter visitor in Southern California deserts and Central Valley; uncommon resident throughout the rest of the state (2).	No	Moderate	Suitable habitat is present within all of the project area. May use the project area for nesting, foraging, and/or wintering. This species was recorded in the vicinity ² (SDNHM 2012b).
Athene cunicularia Burrowing owl	BCC/SSC/ Group 1, MSCP	Open, dry grassland and desert habitats; grass, forb, and open shrub stages of pinyon-juniper and ponderosa pine habitats throughout the state, 0 to 5,249 feet (2).	No	Moderate	May nest and/or winter within the project area. No records exist for this species in the project area; however, it was observed during surveys for the Tule Wind Project (HDR 2010). Typically found at lower elevations.
Branta canadensis Canada goose	None/None/ Group 2	Lakes, fresh emergent wetlands' moist grasslands, croplands, pastures, and meadows. Winter migrant throughout Central Valley, Salton Sea, northeastern California, also along Colorado River (2).	No	Moderate potential to occur during the winter	Marginal suitable habitat is present within all of the project area. This species may inhabit the project area as stopover or during the winter. This species was recorded in the vicinity ² (SDNHM 2012b).
Buteo lineatus Red-shouldered hawk	None/None/ Group 1	Riparian and woodland habitats interspersed with swamps and wetlands found along coast, southern deserts, and in Central Valley, 0 to 4,921 feet (2).	No	High	Suitable habitat is present within the project area. May use the project area for nesting and foraging. This species was recorded in the vicinity ² (SDNHM 2012b).
Buteo regalis Ferruginous	BCC/WL/ Group 1,	Open, grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, fringes of pinyon-juniper habitats. Uncommon winter resident at low elevations	No	Moderate potential to occur	Suitable habitat is present within the project area. May use the project area to forage during the winter. Project area is



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
hawk (wintering)	MSCP	and open grasslands of Modoc Plateau, Central Valley, Coast Ranges. Common winter resident in southwestern California (2).		during winter	outside the recorded breeding range for this species. This species was recorded in the vicinity ² (SDNHM 2012b).
Buteo swainsoni Swainson's hawk	BCC/ST/ Group 1, MSCP	Forages in grasslands or suitable grain or alfalfa fields or livestock pastures; breeds in stands with few trees in juniper-sage flats, riparian area, and in oak savannah in Central Valley (2).	Observed	N/A	One occurrence recorded within semidesert chaparral (AECOM 2012b). Expected only as occasional, temporary visitor during migration. Species not known to nest or winter in San Diego County. This species was recorded in the vicinity ² (SDNHM 2012b).
Carduelis lawrencei Lawrence's Goldfinch (nesting)	BCC/None/ None	Breeds in open oak or other arid woodland and chaparral, near water. Typical habitats include valley foothill hardwood, valley foothill hardwood-conifer, and in Southern California, as well as desert riparian, palm oasis, pinyon-juniper, and lower montane habitats.	No	Moderate	There is some suitable nesting habitat in oak woodland and chaparral; however, the project area lacks perennial water sources. This species was recorded in the vicinity ² (SDNHM 2012b).
Cathartes aura Turkey vulture	None/None/ Group 1, MSCP	Rangeland, agriculture, grassland; uses cliffs and large trees for roosting, nesting, and resting throughout most of California during breeding season (2).	Observed	N/A	This species was observed (AECOM 2012b). Suitable open foraging habitat present on site. Suitable nesting habitat not available on site. This species was recorded in the vicinity ² (SDNHM 2012b).
Circus cyaneus Northern harrier (nesting)	None/SSC/ Group 1, MSCP	Open wetlands (nesting), pasture, old fields, dry uplands, grasslands, rangelands, coastal sage scrub. Resident of northeastern plateau and coastal area; less common resident in Central Valley. Breeds at marsh edge in shrubby vegetation in Central Valley and Sierra Nevada (0 to 5,577 feet), and northeastern California (up to 2,625 feet (2).	Observed	Low nesting potential; observed during non-nesting period	Documented southeast of the project area during 2011 surveys (AECOM 2012b). However, the species is only expected as a winter visitor in grassland habitat and the more open area of scrub and chaparral communities on site; based on lack of observations during the breeding season, this species probably is not breeding in the project area. This species was recorded in the vicinity ² (SDNHM 2012b).



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Dendroica petechia brewsteri Yellow warbler	BCC/SCC/ Group 2, MSCP	Nests in lowland and foothill riparian woodlands; montane chaparral, open ponderosa pine, mixed conifer habitats up to 8202 feet; winters in a variety of habitats. Breeds from coast range in Del Norte County, east to Modoc plateau, south to Santa Barbara and Ventura Counties, and western slope of Sierra Nevada south to Kern County; also breeds in ranges in San Diego County (2).	No	Moderate	Mature riparian woodlands are not present on site. However, the species was documented southeast of the project area, south of I-8, during 2011 surveys (AECOM 2012b). Therefore, there is moderate potential for the species to move through and temporarily occupy the project area. This species was recorded in the vicinity ² (SDNHM 2012b).
Eremophila alpestris actia California horned lark	None/WL/ Group 2, MSCP	Open habitats, grassland, rangeland, shortgrass prairie, montane meadows, coastal plains, fallow grain fields south of Humboldt County in Coast Ranges, in San Joaquin Valley, except extreme southern end (2, 4).	Observed	N/A	Scattered occurrences recorded primarily within montane buckwheat scrub with other observations in non-native grassland (AECOM 2012b). This species was also recorded in the vicinity ² (SDNHM 2012b).
Falco columbarius Merlin (wintering)	None/WL/ Group 2	Coastlines, open grasslands, savannahs, woodlands, lakes, wetlands, montane hardwood-conifer habitats, ponderosa pine. Found throughout western half of state below 4,921 feet (1).	No	Moderate potential to occur during the winter	Suitable foraging habitat is present within the project area. However, the project area is outside the breeding range for this species (i.e., does not nest in California). This species was recorded in the vicinity ² (SDNHM 2012b).



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County)¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Falco mexicanus Prairie falcon (nesting)	BCC/WL/ Group 1	Grassland, savannas, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs. Southeastern deserts northwest through Central Valley and along inner Coast Ranges and Sierra Nevada (2).	Observed	Not expected to nest on site; High potential to forage on site	One occurrence recorded in semidesert chaparral habitat (AECOM 2012b). There is no suitable nesting habitat (i.e., cliffs or bluffs) in the project area; however, there is suitable foraging habitat. This species was recorded in the vicinity ² (SDNHM 2012b).
Falco peregrinus anatum American peregrine falcon (nesting)	FD, BCC/SD, FP/Group 1	Nests in woodland, forest, coastal habitats along coast north of Santa Barbara and in Sierra Nevada, and other mountains of Northern California. Winters in Central Valley, and is found in other riparian area and coastal/inland wetlands (2).	No	Not expected to nest on site; Moderate potential to forage on site	Suitable foraging habitat is present within all of the project area. However, no suitable nesting cliffs are present in the project area.
Lanius ludovicianus Loggerhead shrike (nesting)	BCC/SSC/ Group 1, MSCP	Open habitats with scattered shrubs, trees, or other perches; highest density in open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper, juniper, desert riparian, and Joshua tree habitats. Found in foothills and lowlands throughout California (2).	Observed	N/A	One occurrence recorded in semidesert chaparral habitat (AECOM 2012b). There is suitable nesting habitat in the project area. This species was recorded in the vicinity ² (SDNHM 2012b).
Melanerpes lewis Lewis' woodpecker	BCC/None/ Group 1	Open oak savannahs, broken deciduous, and coniferous habitats. Eastern slopes of Coast Ranges south to San Luis Obispo County; winters in Central Valley, Modoc Plateau, and Transverse and other ranges in Southern California. Breeds eastern slopes of Coast Ranges, Sierra Nevada, and Cascade Range (2).	No	Moderate potential to occur during migration or winter	Potentially suitable foraging and roosting habitats present. Breeding is not expected since this species is only found in San Diego County during migration and winter. This species was recorded in the vicinity ² (SDNHM 2012b).
Oreortyx pictus eremophila Mountain quail	None/None/ Group 2	Dense montane chaparral and brushy area within coniferous forest, pinyon-juniper-yucca associations; uses shrubs, brush stands, and trees on steep slopes for cover in most major montane	No	Low to Moderate	Habitat typically used by this species is not present. However, mountain quail are found within the vicinity of the project area. This species was recorded



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
		habitats of the state (2).			in the vicinity ² (SDNHM 2012b) and can be locally abundant. Lack of detections during survey effort makes presence less likely.
Parabuteo unicinctus Harris' Hawk (nesting)	None/WL/ None	River woods, mesquite, brush, and cactus deserts	No	Low potential to nest; Moderate potential to forage occasionally	This species was recorded in the vicinity ² (SDNHM 2012b). A pair nested in McCain Valley, but has not been observed since 2002 (Unitt 2004). Other individuals are anecdotally observed in the vicinity during most recent years. There is suitable habitat in the project area.
Sialia mexicana Western bluebird	None/None/ Group 2	Open forests of deciduous, coniferous, or mixed trees; savanna, edges of riparian woodland. Common throughout California excluding higher mountains and eastern deserts (2).	No	High	Oak woodlands and non-native grassland on site provides suitable nesting and foraging habitat. This species was recorded in the vicinity ² (SDNHM 2012b).
<i>Tyto alba</i> Barn owl	None/None/ Group 2	Open habitats including grassland, chaparral, riparian, and other wetlands throughout the state, 0 to 5,512 feet (2).	No	High	Suitable habitat is present within all of the project area.
Vireo vicinior Gray vireo (nesting)	BCC/SSC/ Group 1, MSCP	Summer resident in arid pinyon-juniper, juniper, and chamise-redshank chaparral habitats in mountains of Southern California, 1,969 to 6,562 feet (2).	No	Moderate	Suitable nesting habitat is present within all of the project area and it has moderate potential to nest on site. This species was recorded in the vicinity ² (SDNHM 2012b).
		Mammals			
Antrozous pallidus Pallid bat	None/SSC/ Group 2, WBWG:H	Grasslands, shrublands, woodlands, forests; most common in open dry habitats with rocky outcrops for roosting. Found throughout low elevations of California, except for high Sierra Nevada and northwestern corner of the state south to Mendocino County (2).	No	Moderate	Potentially suitable foraging and roosting habitat (limited rock outcrops and oaks) present. The closest CNDDB occurrence record, from 2002, is located approximately 6.5 miles southeast of the project area (CDFG 2012d).

Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Bassariscus astutus Ringtail	None/FP/ Group 2, MSCP	Mixed forests and shrublands near rocky area or riparian habitats. Forages near water and is seldom found more than .62 mile from a water source; it is widely distributed throughout California (2).	No	Moderate	Suitable habitat is present in the form of rock outcrops and trees, and water resources are present nearby. Usually not found more than 0.6 mile from permanent water (AECOM 2012). Nearest natural permanent water source approximately 0.75 mile from the eastern edge of the project area (Tule Lake), but there may be other man-made features present (e.g., cattle guzzlers). Suitable den sites present (rock outcrops and oak woodland). This species is not tracked in the CNDDB (CDFG 2011).
Chaetodipus californicus femoralis Dulzura (California) pocket mouse	None/SSC/ Group 2	Open habitat, coastal sage scrub, chaparral, oak woodland, chamise chaparral, mixed conifer habitats; disturbance specialist; 0 to 3,000 feet (7, 8).	No	High	Suitable habitat for this species exists within the oak woodland and chaparral habitats within the project area. The species has previously been documented 1 mile northwest of the project area (CDFG 2012d). However, this occurrence was recorded in 1958 (CDFG 2012d).
Chaetodipus fallax fallax Northwestern San Diego pocket mouse	None/SSC/ Group 2	Coastal sage scrub, grassland, sage scrub-grassland ecotones, sparse mixed and chamise chaparral; rocky and gravelly area with yucca overstory, 500 to 3,000 feet (3).	No	High	Suitable habitat present and within species range. The closest CNDDB occurrence record, from 2001, is located approximately 15 miles southeast of the project area (CDFG 2012d).
Chaetodipus fallax pallidus	None/SSC/ Group 2	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon-	No	Moderate	Suitable habitat is present within all of the project area. Project area is within



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Pallid San Diego pocket mouse		juniper, and annual grassland. Along southern margins of Mojave Desert, along northern slopes of San Bernardino Mountains, western edge of Colorado Desert, and south to Baja California (5).			potential range of both special-status subspecies C. f. fallax and C. f. pallidus, but latter is most likely to occur in the project area. The closest CNDDB records for this species, from 1938 and 2002, are located 8 to 10 miles southeast of the project area (CDFG 2012d).
Choeronycteris mexicana Mexican long- tongued bat	None/SSC/ Group 2, WBWG: H	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon-juniper woodland. Roosts in caves, mines, and buildings. Summer resident in San Diego County (2).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are within the mountains east of the project area. The closest CNDDB record, from 1996, is approximately 40 miles northwest of the project area (CDFG 2012d).
Corynorhinus townsendii Townsend's big-eared bat	None/SSC/ Group 2, MSCP, WBWG:H	Mesic habitats; gleans from brush or trees, or feeds along habitat edges. Found in all habitats but subalpine and alpine throughout California (2).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are within the mountains east of the project area. There are two occurrence records, from 1998 and 2002, located approximately 11 miles northeast and northwest of the project area (CDFG 2012d).
Euderma maculatum Spotted bat	None/SSC/ Group 2, WBWG:H	Foothills, mountains, desert regions of Southern California, including arid deserts, grasslands, and mixed conifer forests. Roosts in rock crevices and cliffs. Feeds over water and along washes (2).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are within the mountains east of the project area. The closest occurrence data for this species, from 1955, is located approximately 57 miles northwest of the project area (CDFG 2012d).



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Eumops perotis californicus Greater western mastiff bat	None/SSC/ Group 2, MSCP, WBWG:H	Roosts in small colonies in cracks and small holes, seeming to prefer man-made structures. All subalpine and alpine habitats; 50 to 10,000 feet (3).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are within the mountains east of the project area. There are three known occurrences records, from 1962, 2002, and 2003, within approximately 11 miles of the project area (CDFG 2012d). These occurrences are northeast and northwest of the project area (CDFG 2012d).
Lasiurus blossevillii Western red bat	None/SSC/ Group 2, WBWG:H	Prefers edges with trees for roosting and open areas for foraging. Roosts in woodlands and forests. Forages over grasslands, shrublands, woodlands, forests, and croplands. Found south of Shasta County to Mexican border, and west of the Sierra Nevada/Cascade Crest. In winter, occupies coastal regions and lowlands south of San Francisco Bay (2).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are within the mountains east of the project area. There are three known occurrences records, from 1962, 2002, and 2003, within approximately 11 miles of the project area (CDFG 2012d). These occurrences are northeast and northwest of the project area (CDFG 2012d).
Lasiurus cinereus Hoary bat	None/None/ WBWG: M	Prefers open habitats or habitat mosaics with access to trees for cover and open area or habitat edges for feeding.	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas are located within the mountains east of the project area. The closest CNDDB occurrence, from 1998, is located approximately 11 miles northeast of the project area (CDFG 2012d).
Lepus californicus bennettii San Diego	None/SSC/ Group 2, MSCP	Arid habitats with open ground; grasslands, coastal sage scrub, agriculture, disturbed area, and rangelands in Southern California (2, 4).	Observed	N/A	Numerous observations of this species were recorded within the project area, primarily within scrub and chaparral habitats (AECOM 2012b).



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
black-tailed jackrabbit					
Macrotus californicus California leaf- nosed bat	None/SSC/ Group 2, WBWG:H	Desert riparian, desert wash, desert scrub, desert succulent shrub, alkali desert scrub, and palm oasis. Found from Riverside, Imperial, San Diego, and San Bernardino Counties, south to Mexican border; fairly common along parts of Colorado River, elevation approximately 1,969 feet (2).	No	High	Suitable foraging and roosting habitat is present within the project area. The closest CNDDB occurrence, from 1998, is located approximately 11 miles northeast of the project area (CDFG 2012d).
Neotoma lepida intermedia San Diego desert woodrat	None/SSC/ Group 2	Joshua tree, pinyon-juniper, mixed and chamise-redshank chaparral, sagebrush, and most desert habitats. Found south of San Luis Obispo County to San Diego County and San Bernardino and Riverside Counties, 0 to 8,530 feet (2, 4).	No	High	Presence of Neotoma sp. was observed within the project area in the form of woodrat middens. Suitable habitat for this species is present within scrub and chaparral habitats. The species has previously been documented at two locations approximately 2 miles north of the project area (CDFG 2012d).
Nyctinomops femorosaccus Pocketed free- tailed bat	None/SSC/ Group 2, WBWG:M	Rocky desert area with high cliffs or rock outcrops. Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, palm oasis in Riverside, San Diego, and Imperial Counties (2).	No	Moderate	Suitable foraging and roosting habitat is present within the project area. The closest CNDDB occurrence, from 2003, is located approximately 10 miles northwest of the project area (CDFG 2012d).
Nyctinomops macrotis Big free-tailed bat	None/SSC/ WBWG:MH, Group 2	Rugged, rocky canyons in Riverside, Los Angeles, and San Diego Counties, but scattered records across California to Oakland (2, 5).	No	High	Suitable foraging habitat is present within the project area. Potential roosting areas within the mountains east of the project area. The closest CNDDB occurrence, from 2002, is located approximately 15 miles northwest of the project area (CDFG 2012d).



Table 1 Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Odocoileus hemionus Mule deer	None/None/ Group 2	Coastal sage scrub, chaparral, riparian, woodlands, forest; often browses in open area adjacent to cover throughout California, except deserts and intensely farmed area (2).	Observed	N/A	Mule deer tracks were observed in the northeastern portion of the project area, along an access road in semi-desert chaparral habitat (AECOM 2012b). Suitable habitat occurs throughout the site.
Onychomys torridus ramona Southern grasshopper mouse	None/SSC/ Group 2, MSCP	Alkali desert scrub and other desert scrub habitats, sparse coastal scrub, especially with friable soils for digging in Mojave Desert and southern Central Valley (2).	No	Moderate	Suitable habitat for this species exists within non-native grassland, wildflower fields, scrub, and open chaparral habitats. The species has previously been documented less than 1 mile northwest of the project area; however, this occurrence is from 1958 (CDFG 2012d).
Puma [=Felis] concolor Mountain lion	None/None/ Group 2	Coastal sage scrub, chaparral, riparian, woodlands, forest; rests in rocky area, and on cliffs and ledges that provide cover. Most abundant in riparian area and brushy stages of most habitats throughout California except deserts (2).	No	High	Mountain lion scat was observed <1 mile southeast of the project area, south of I-8, during 2011 surveys (AECOM 2012b). Suitable habitat present on site.
Taxidea taxus American badger	None/SSC/ Group 2, MSCP	Dry, open, treeless area; grasslands and coastal sage scrub, especially with friable soils, throughout California (2).	No	Moderate	Potentially suitable habitat present. The closest CNDDB occurrence data for this species, from 1969, is located approximately 20 miles northeast of the project area (CDFG 2012d).



Table 1
Special-Status Wildlife Species Detected or Potentially Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County)¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination	
	Invertebrates					
Danaus plexippus Monarch butterfly (wintering sites)	None/None/ Group 2	Overwinters in eucalyptus groves from San Francisco south to northern Baja California (4).	Observed	Low potential for wintering sites, but high potential for individuals	Documented during 2011 focused Quino surveys, east of McCain Valley Road in scrub and chaparral habitats (AECOM 2012b). No suitable wintering groves of trees though.	

¹ Status Designations:

Federal

BCC U.S. Fish and Wildlife Service: Birds of Conservation

Concern

FC Candidate for federal listing as threatened or endangered

(FD) Federally delisted; monitored for five years

FE Federally listed Endangered
FT Federally listed as Threatened

WBWG: H Western Bat Working Group: High Priority
WBWG: LM Western Bat Working Group: Low-Medium Priority
WBWG: M Western Bat Working Group: Medium Priority
WBWG: MH Western Bat Working Group: Medium-High Priority

State Designations:

SSC California Special Concern Species

FP California Department of Fish and Game Fully Protected

Species

WL California Department of Fish and Game Watch List Species

SE State listed as Endangered ST State listed as Threatened

County Designations:

MSCP Draft East County MSCP covered species

References

Nafis 2012

Zeiner et al. 1988, 1990a-b

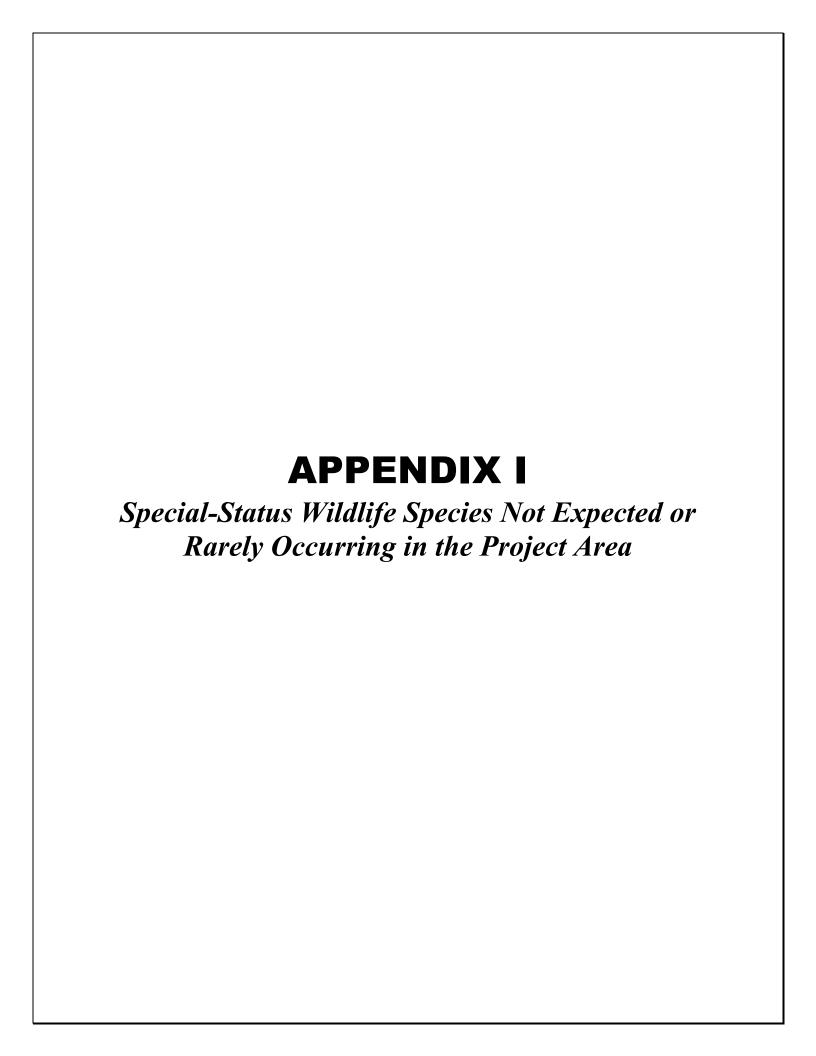
SDNHM 2012c NatureServe 2012 CDFG 2012d

Notes:

²Vicinity refers to the Live Oak Springs, Campo, Tierra del Sol, Jacumba, Mount Laguna, Sweeny Pass, Cameron Corners, and Sombrero Peak USGS 7.5 minute quadrangles.

Bold indicates species that were identified in the County's Pre-Application Summary Letter (County 2011).





APPENDIX I Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
		Amphibians			
Anaxyrus [=Bufo microscaphus] californicus Arroyo toad	FE/SSC/ Group 1, MSCP	Washes, arroyos, sandy riverbanks, and riparian area with willows, sycamores, oaks, cottonwoods. Requires exposed sandy streamsides with stable terraces to burrow with scattered vegetation and calm pools with sandy/gravel bottoms for breeding. Found west of desert in coastal area from upper Salinas River in San Luis Obispo County to northwestern Baja California, sea level to 2,653 feet (1).	No	Very low	Not observed during surveys. Arroyo toads are not known from this area and have not been documented in the Live Oak Springs quadrangle (CDFG 2012a). The project area lacks suitable habitat for this species. In addition, focused arroyo toad surveys on the nearby Tule site were negative. The closest USFWS occurrence is approximately 12 miles south of the project area (USFWS 2012b). The closest CNDDB location is approximately 11 miles northwest of the project area (CDFG 2012d).
Taricha torosa torosa Coast Range newt (Monterey Co. south only)	None/SSC/ Group 2, MSCP	Valley-foothill hardwood, valley-foothill hardwood-conifer, coastal scrub, mixed chaparral, annual grassland, mixed conifer; in Southern California inhabits drier chaparral, oak woodland, and grasslands. Found along Coast Ranges south of Monterey County to northern San Diego County, Peninsular Ranges south to Boulder Creek, Sierra Nevada foothills, Shasta Reservoir, Central Valley floor, 0 to 6,006 feet (1, 2).	No	Low	Although suitable habitat is present within the project area, its known range is west of the project area (Nafis 2012). The closest CNDDB record for this species is from 2001 and is located approximately 27 miles northwest of the project area (CDFG 2012d).
		Reptiles			
Coleonyx switaki Barefoot gecko	None/ST/ Group 2, MSCP	Arid rocky area at the heads of canyons with large boulders and rock outcrops, sparse vegetation. Found on arid desert slopes of eastern side of Peninsular Ranges near Borrego Springs, south to Baja California. Isolated population found in Coyote Mountains of Imperial County. Elevations 0 to 2,297 feet (1, 2).	No.	Very Low	The project lacks suitable habitat and is outside of known elevation range. Not observed during surveys; no CNDDB records within Live Oak Springs quadrangle (CDFG 2012a). The closest record for this species is located approximately 11 miles east of the



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Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
					project area and was recorded in 1976 (CDFG 2012d).
Lampropeltis zonata pulchra (San Diego population) San Diego mountain kingsnake	FSS/SSC/ Group 2, MSCP	Valley-foothill hardwood, hardwood-conifer, mixed and montane chaparral, valley-foothill riparian, coniferous forests, wet meadows in central San Diego County Peninsular Ranges: Laguna, Palomar, Volcan, and Hot Springs Mountains, Santa Ana Mountains, and in Hollywood Hills and Santa Monica Mountains, 0 to 6,499 feet (1).	No	Low	While there is some suitable habitat in the denser chaparral and woodlands, this species is typically found at higher elevations, where denser and moister woodland and forests occur. This species is not recorded in the Live Oak Springs quadrangle (CDFG 2012a). The closest CNNDB record, from 1982, is located approximately 13 miles northwest of the project area (CDFG 2012d).
Phrynosoma mcallii Flat-tailed horned lizard	BLMS/SSC/ Group 1, MSCP	Fine sand and sparse vegetation in desert washes and desert flats. It is probably most abundant in area of creosote bush and is found in desert scrub, wash, succulent shrub, and alkali scrub habitats. Common in area with high density of harvester ants and fine windblown sand; rarely occurs on dunes. Found in central Riverside, eastern San Diego and Imperial Counties, 0 to 590 feet (1, 2).	No	Very Low	This species is found in desert habitats and the project area is outside of this species' elevation range. The closest CNDDB occurrence record, from 1912, is located approximately 6 miles northeast of the project area (CDFG 2012d).
Sceloporus graciosus vanderburgianis Southern sagebrush lizard	None/None/ Group 2	Montane chaparral, manzanita, ceanothus; open pine and Douglas fir forests in mountains; found in area with scattered low bushes, abundant sun. Transverse and Peninsular Ranges of Southern California, Sierra San Pedro Mártir of northern Baja California, 4,498 to 9,599 feet (1).	No	Very Low	Species typically found at higher elevations (4,500 to 9,600 feet).
Thamnophis sirtalis ssp. South Coast garter snake	None/SSC/ Group 2	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools. Coastal plain from Ventura to San Diego Counties, 0 to 2,789 feet (2).	No	Low	Marginal suitable habitat is present; however, this subspecies is not known to occur in the region. The closest CNDDB occurrence record, from 2001, is located approximately 45 miles northwest of the project area (CDFG 2012d).



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Accipiter striatus Sharp-shinned hawk (nesting)	None/WL/ Group 1	Nests in coniferous forests, ponderosa pine, black oak, riparian deciduous, mixed conifer, Jeffrey pine; winters in lowland woodlands and other habitats. Common migrant and winter resident throughout California. Probably breeds south in Coast Ranges and at scattered locations in Transverse and Peninsular Ranges (2).	No	Very low potential to nest; High potential to occur during the winter	Potentially suitable foraging habitat present. Species does not breed in San Diego County; considered an uncommon winter visitor. This species was recorded in the vicinity ² (SDNHM 2012b).
Ammodramus savannarum Grasshopper sparrow	None/SSC/ Group 1, MSCP	Dry, dense grasslands, especially with a variety of grasses and tall forbs, scattered shrubs for singing perches. Summer resident and breeder in foothills and lowlands west of Cascade–Sierra Nevada Crest from Mendocino and Trinity Counties south to San Diego County. In Southern California, occurs on hillsides and mesas in coastal area, breeds up to 4,921 feet (2).	No	Low	The breeding and winter records for grasshopper sparrow are concentrated along the coastal ranges. Winter records are very rare in eastern San Diego County (Unitt 2004). Although there is suitable grassland habitat within the project area, it is unlikely to occur. This species was recorded in the vicinity ² (SDNHM 2012b).
Anas strepera Gadwall	None/None/ Group 2	Interior valleys, wetlands, ponds, and streams. Feeds and rests in freshwater lacustrine and emergent habitats, and to a lesser extent, estuarine and saline emergent habitats, and nests in nearby herbaceous and cropland habitats. Common in Central Valley and less common in Coast Range foothills of Central and Southern California. Locally common in Imperial Valley and along Colorado River, October to March. Breeds on northeastern plateau and east of Sierra Nevada (2).	No	Low	No potential to nest. Lack of suitable habitat within the project area. This species was recorded in the vicinity ² (SDNHM 2012b).
Asio flammeus Short-eared owl (nesting)	None/SSC/ Group 2	Open area with few trees, such as grasslands, prairies, dunes, meadows, irrigated lands, and saline and fresh emergent wetlands. Breeds in coastal area	No	Low	Although some suitable habitat is present within all of the project area, the project area is outside of the typical winter range for this



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
		in Del Norte and Humboldt Counties, San Francisco Bay Delta, northeastern Modoc plateau, east side of Sierra from Lake Tahoe south to Inyo County, and San Joaquin Valley. Uncommon winter migrant in Southern California, and widespread during winter in Central Valley and coastline (2).			species, where it occurs near the coastline (Zeiner et al. 1990a), and it was not recorded in the vicinity ² (SDNHM 2012b).
Aythya americana Redhead	None/SSC/ Group 2	Lacustrine waters, foothills and coastal lowlands, and along the coast and Colorado River. Nests in fresh emergent wetland bordering open water. Found south of Modoc County to Mono County, Central Valley, Monterey County south to Ventura County; breeds in Central Valley, eastern Kern County, coastal Southern California, and Salton Sea (2).	No	Not expected	This species was recorded in the vicinity ² (SDNHM 2012b); however, the project area lacks suitable nesting and open water required by this species.
Butorides virescens Green heron	None/None/ Group 2	Nests and roosts in valley foothill and desert riparian habitats; feeds in fresh emergent wetland, lacustrine, slow-moving riverine habitats. Resident in foothills and lowlands throughout California; common August to March in southern coastal ranges, in summer along Colorado River, and found all year at Salton Sea (2).	No	Not expected	Lack of suitable freshwater habitat. May use the marginal habitat within portions of the project area as stopover or during the winter. This species was recorded in the vicinity ² (SDNHM 2012b).
Chaetura vauxi Vaux's Swift (nesting)	None/SSC/ None	Breeds in Northern California in redwood and Douglas fir habitats; prefers hollow tree cavities for nest sites. Migrant throughout state, and irregular winter resident in Southern California (2).	No	Low potential to winter	This species does not nest in Southern California, but it was recorded in the vicinity ² (SDNHM 2012b) and has low potential to use the site during migration or winter.
Elanus leucurus White-tailed kite (nesting)	None/FP/ Group 1, MSCP	Open grasslands, savanna-like habitats, agriculture, wetlands, oak woodlands, riparian, herbaceous and open stages of most habitats in cismontane California, near agricultural area. Found in coastal and valley lowlands of California (2).	No	Low	Project location is generally too high and nesting habitat marginal. This species was recorded in the vicinity ² (SDNHM 2012b).



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Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Empidonax traillii Willow Flycatcher	BCC/SE/ None	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2,000 to 8,000 feet in elevation.	No	Not expected	This species was recorded in the vicinity ² (SDNHM 2012b); however, there is no suitable habitat in the project area and this species is not expected to occur.
Falco peregrinus anatum American peregrine falcon (nesting)	FD, BCC/SD, FP/Group 1	Nests in woodland, forest, coastal habitats along coast north of Santa Barbara and in Sierra Nevada, and other mountains of Northern California. Winters in Central Valley and is found in other riparian area and coastal/inland wetlands (2).	No	Not expected to nest on site; Moderate potential to forage on site	Suitable foraging habitat is present within all of the project area. However, no suitable nesting cliffs are present in the project area.
Haliaeetus leucocephalus Bald Eagle (nesting and wintering)	FD, BCC/SE, FP/Group 1	Large bodies of water and flowing rivers with abundant fish, with adjacent snags or other perches; breeds in Northern California and is found during winter at few locations throughout Southern California (2).	No	Not expected	There are very few winter records for this species in the vicinity (Unitt 2004), and there are no lakes in the project area. This species is not expected to occur. This species was recorded in the vicinity ² (SDNHM 2012b).
Larus californicus California gull (nesting colony)	None/WL/ Group 2	Along the coast: sandy beaches, mudflats, rocky intertidal and pelagic area of marine and estuarine habitats, fresh and saline emergent wetlands. Inland: lacustrine, riverine, and cropland habitats; landfill dumps; and open lawns in cities. Nests in alkali and freshwater lacustrine habitats; adults roost along shorelines, landfills, pastures, and on islands. Nest along northeastern plateau region and at Mono Lake (2).	No	Not expected	There are no bodies of water or landfills to host this species on site. A migrant could pass over the site, but it is unlikely that it would stop.



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Numenius americanus Long-billed Curlew (non- breeding)	BCC/WL/ Group 2	Nests in upland shortgrass prairies and wet meadows in northeast California; winters in coastal estuaries, open grasslands and croplands along California coast, and in Central and Imperial Valleys (2).	No	Not expected	This species was recorded in the vicinity ² (SDNHM 2012b); however, there are very few winter records (Unitt 2004), and this species is more commonly found along the coast.
Pandion haliaetus Osprey	None/WL/ Group 1	Large waters (lakes, reservoirs, rivers) supporting fish; usually near forest habitats (primarily ponderosa pine through mixed conifer), but widely observed along the coast. Breeds from Cascade Ranges south to Lake Tahoe and along the northwest coast. Uncommon breeder along southern Colorado River. Uncommon along coast of Southern California (2).	No	Not expected	This species was recorded in the vicinity ² (SDNHM 2012b); however, it is not expected to occur in the project area due to lack of suitable foraging and nesting habitat.
Phalacrocorax auritus Double-crested Cormorant	None/None/ Group 2	Lakes, rivers, reservoirs, estuaries, ocean; nests in tall trees, rock ledges on cliffs, rugged slopes. Resident along coast and inland waters. Common August to May at Salton Sea and Colorado River reservoirs; also found south of San Luis Obispo County and Central Valley (2).	No	Not expected	This species was recorded in the vicinity ² (SDNHM 2012b); however, there is no suitable habitat in the project area.
Piranga rubra Summer tanager (nesting)	None/SSC/ Group 2	Nests in desert riparian woodland dominated by cottonwoods and willows; winter habitats include parks and residential area. Found along lower Colorado River and locally in Southern California deserts (2).	No	Very low	Lack of suitable habitat within the project area and outside of the recorded breeding range for this species. This species was recorded in the vicinity ² (SDNHM 2012b).
Plegadis chihi White-faced ibis	None/WL/ Group 1	Nests in marsh; winter foraging in shallow lacustrine waters, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries. Uncommon summer resident in areas of Southern California (esp. Salton Sea area); rare visitor to Central Valley (2).	No	Not expected; no nesting habitat	This species was recorded in the vicinity ² (SDNHM 2012b).



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Progne subis Purple martin (nesting)	None/SSC/ Group 1, MSCP	Nests in tall sycamores, pines, oak woodlands, and coniferous forest; forages over riparian, forest, and woodland. Found throughout the state in wooded, low-elevation habitats. Rare and local breeder in the south in mountain ranges and along the coast (2).	No	Not expected	Habitat typical for supporting this species is not present on site. Individuals could be detected during migration, but there is low potential for that. This species was recorded in the vicinity ² (SDNHM 2012b).
Pyrocephalus rubinus Vermilion flycatcher (nesting)	None/SSC/ Group 1, MSCP	Nesters inhabit cottonwood, willow, mesquite, and other vegetation in desert riparian habitat adjacent to irrigated fields, irrigation ditches, pastures, and other open, mesic areas in isolated patches. Found along Colorado River, especially near Blythe, Riverside County (2).	No	Low	There is limited riparian habitat in the project area and no confirmed breeding in the area (Unitt 2004). This species was recorded in the vicinity ² (SDNHM 2012b).
Selasphorus sasin Allen's hummingbird (nesting)	BCC/None/ None	Breeds most commonly in coastal scrub, valley foothill hardwood, and valley foothill riparian habitats, but also common in closed-cone pine-cypress, urban, and redwood habitats. Occurs in a variety of woodland and scrub habitats as a migrant.	No	Low nesting potential; High potential to occur during migration	Potential to occur during migration. Not known to breed in project area. This species was recorded in the vicinity ² (SDNHM 2012b).
Strix occidentalis occidentalis California spotted owl		Dense, old-growth, multi-layered mixed conifer, redwood and Douglas-fir habitats in northern California; oak and oak-conifer habitats in southern California; 0 to 7,546 feet (2).		Not expected	No suitable habitat and this species is recorded nesting at higher elevations (Unitt 2004). This species was recorded in the vicinity ² (SDNHM 2012b).
Toxostoma lecontei Le Conte's thrasher	BCC/SSC/ Group 2, MSCP	Open desert wash, creosote scrub, alkali desert scrub, desert succulent scrub.	No	Not expected	No suitable habitat. Occurs in desert habitats at lower elevations. This species was recorded in the vicinity ² (SDNHM 2012b).
Vireo bellii pusillus Least Bell's vireo	FE, WLBCC/ SE/ Group 1, MSCP	Willows and low, dense valley foothill riparian habitat and lower portions of canyons; along western edge of deserts in desert riparian habitat, 0 to 1,969 feet.	No	Not expected	USFWS occurrence data approximately 8 miles north of project area (USFWS 2012b). The full species (V. bellii) was recorded in the vicinity ²



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Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
(nesting)		Found in San Benito and Monterey Counties, and coastal Southern California from Santa Barbara County south (2).			(SDNHM 2012b), but the project area lacks suitable habitat for this species, and it is not expected to occur.
Xanthocephalus xanthocephalus Yellow-headed blackbird (nesting)	None/ SSC/ MSCP	Nests in freshwater emergent wetlands with dense vegetation and deep water; often along the borders of lakes or ponds.	No	Very Low	This species was not observed during surveys, and the project area probably doesn't flood enough to support nesting habitat. This species was recorded in the vicinity ² (SDNHM 2012b). Observed nesting at Tule Lake in 2000 (Unitt 2004).
		Mammals		•	
Lasiurus xanthinus Western yellow bat	None/SSC/ WBWG: H	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon-juniper woodland.	No.	Not expected	This species is found in desert habitats, and the project area does not support suitable habitat. The closest CNDDB occurrence, from 1998, is located approximately 11 miles northeast of the project area (CDFG 2012d).
Myotis ciliolabrum Small-footed myotis	None/None/ Group 2, WBWG:M	Deserts, chaparral, riparian zones, western coniferous forest; most common above pinyon-juniper forest. Roost in caves, old mines, abandoned buildings (3).	No	Low	Potentially suitable foraging and habitat present, though site is lower than typical. The closest CNDDB occurrence, from 2003, is located approximately 11 miles northwest of the project area (CDFG 2012d).
Myotis evotis Long-eared myotis	None/None/ Group 2, WBWG:M	Roosts in buildings, crevices, under bark, and snags. Caves are used as night roosts. Feeds along habitat edges, in open habitats, and over water. Occurs primarily along entire coast and in Sierra Nevada, Cascades, Great Basin, and 0 to 8,858 feet (2).	No	Low	Potentially suitable foraging and roosting habitat present, although not typical range. The closest CNDDB occurrence, from 2003, is located approximately 11 miles northwest of the project area (CDFG 2012d).



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County)¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Myotis thysanodes Fringed myotis	None/None/ Group 2, WBWG:H	Pinyon-juniper, valley foothill hardwood, hardwood-conifer habitats. Roosts in caves, mines, buildings, or crevices. Forges over open habitats, early successional stages, streams, lakes, and ponds. Found throughout California except Central Valley and Colorado and Mojave Deserts (2).	No	Low	Potentially suitable foraging habitat present, although not typical habitat. There are two known occurrences, from 2002 and 2003, located approximately 15 miles northwest of the project area (CDFG 2012d).
Myotis volans Long-legged myotis	None/None/ Group 2, WBWG:H	Occupies woodland and forest habitats over 3,937 feet. Feeds over open water and over open habitats such as chaparral and coastal scrub, using denser woodlands and forests for cover and reproduction. Roosts in rock crevices, buildings, under tree bark, in snags, mines, caves. Found in coastal ranges, Cascade/Sierra Nevada ranges, Great Basin, and ranges in Mojave Desert (2).	No	Not expected	Suitable habitat is not present, and the project area is below the elevation range for this species. The closest CNDDB occurrence, from 1998, is located approximately 11 miles northeast of the project area (CDFG 2012d).
Myotis yumanensis Yuma myotis	None/None/, Group 2, WBWG:LM	Closely tied to open water, which is used for foraging; open forests and woodlands are optimal habitat throughout California, 0 to 10,827 feet (2).	No	Low	Potentially suitable foraging habitat present, but no open water. The closest CNDDB occurrence, from 2003, is located approximately 11 miles northwest of the project area (CDFG 2012d).
Ovis canadensis nelsoni Peninsular bighorn sheep	FE/ST, FP/ Group 1, MSCP	Alpine dwarf-shrub, low sage, sagebrush, bitterbrush, pinyon-juniper, palm oasis, desert riparian, desert succulent shrub, desert scrub, subalpine conifer, perennial grassland, montane chaparral, and montane riparian from San Jacinto and Santa Rosa Ranges south to Mexico (2).	No.	Not expected	There are no suitable western-ranging open rocky mountain areas within or adjacent to the project area to support these species. The project area is located approximately 1.5 mile west of federal critical habitat for this species, and the closest CNDDB occurrence data is approximately 67 miles northeast (USFWS 2012, CDFG 2012d).

Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
Perognathus longimembris internationalis Jacumba pocket mouse	None/SSC/ Group 2, MSCP	Desert riparian, desert scrub, desert wash, coastal scrub, and sagebrush in San Diego and Riverside Counties (2, 5).	No	Low	Suitable habitat is present within all of the project area. The closest CNDDB occurrence record is from 1993 and is located approximately 32 miles northwest of the project area (CDFG 2012d). Probably south of their range.
		Invertebrates			
Branchinecta sandiegonensis San Diego fairy shrimp	FE/None/ Group 1	Small, shallow vernal pools, occasionally ditches and road ruts.	No	Low	Some potential to occur due to presence of ponded water. However, the area is east of their known range, and the soils do not support typical natural vernal pool topography or botanical species. The nearest USFWS and CNDDB occurrence is approximately 30 miles southwest of the project area (USFWS 2012b; CDFG 2012d).
Euphydryas editha quino Quino checkerspot butterfly	FE/None/ Group 1, MSCP	Sparsely vegetated hilltops, ridgelines, occasionally rocky outcrops; host plant Plantago erecta and nectar plants must be present, San Diego and Riverside Counties (4).	No	Low	Although two potential Quino host plant species (dark-tip bird's beak [Cordylanthus rigidus] and southern Chinese houses [Collinsia concolor]) were found in the project area, Quino was not detected during 2011 protocol-level focused surveys (AECOM 2012c). The nearest USFWS occurrence is located approximately 2.5 miles southwest of the project area (USFWS 2012b). This species was also observed approximately 6 miles north of the project area during surveys for the Tule Wind Project (HDR 2010).
Lycaena hermes Hermes copper butterfly	None/None/ Group 1, MSCP	Coastal sage scrub, southern mixed chaparral supporting at least 5% cover of host plant Rhamnus crocea. Adults visit Eriogonum fasciculatum and Helianthus gracilentus. On well-drained hillsides and	No	Very low	Low potential based on location, and Rhamnus crocea was not documented on site. The two closest CNDDB occurrences for this species, from 2004 and 2008, are located approximately 21



Table 1
Special-Status Wildlife Species Not Expected or Rarely Occurring in the Project Area

Scientific Name/ Common Name	Status (Federal/State/ County) ¹	Habitat Preferences/Requirements	Verified on Site (Direct/ Indirect Evidence)	Potential to Occur On Site	Factual Basis for Determination
		canyon bottoms, coastal San Diego Co. south to Santo Tomas, Baja California (4).			miles northwest of the project area (CDFG 2012d).
Papilio multicaudata Two-tailed swallowtail	None/None/ Group 1	Semi-arid canyon land, mid-level mountains, canyon bottoms; groves, parks, roadsides (4).	No	Low	Suitable habitat is present within all of the project area. However, this species was not detected during 2011 butterfly surveys (AECOM 2012c).
Streptocephalus woottoni Riverside fairy shrimp	FE/None/ Group 1	Deep, long-lived vernal pools, vernal pool-like seasonal ponds, stock ponds; warm water pools that have low to moderate dissolved solids.	No	Low potential	Marginal suitable habitat in the form of occasional standing water pools, although these are atypical and no vernal pool formations occur. Site is outside of known range for species. The nearest USFWS and CNDDB occurrence is located approximately 38 miles southwest of the project area (USFWS 2012b and CDFG 2012d).

¹ Status Designations:

Federal

BCC U.S. Fish and Wildlife Service: Birds of Conservation Concern FC Candidate for federal listing as threatened or endangered

(FD) Federally delisted; monitored for 5 years

FE Federally listed Endangered FT Federally listed as Threatened

WBWG: H Western Bat Working Group: High Priority
WBWG: LM Western Bat Working Group: Low-Medium Priority
WBWG: M Western Bat Working Group: Medium Priority
WBWG: MH Western Bat Working Group: Medium-High Priority

State Designations:

SSC California Special Concern Species

FP California Department of Fish and Game Fully Protected Species
WL California Department of Fish and Game Watch List Species

SE State listed as Endangered
ST State listed as Threatened

County Designations:

MSCP Draft East County MSCP covered species

References

Nafis 2012

Zeiner et al. 1988, 1990-a-b

SDNHM 2012c NatureServe 2012 CDFG 2012d.

Notes:

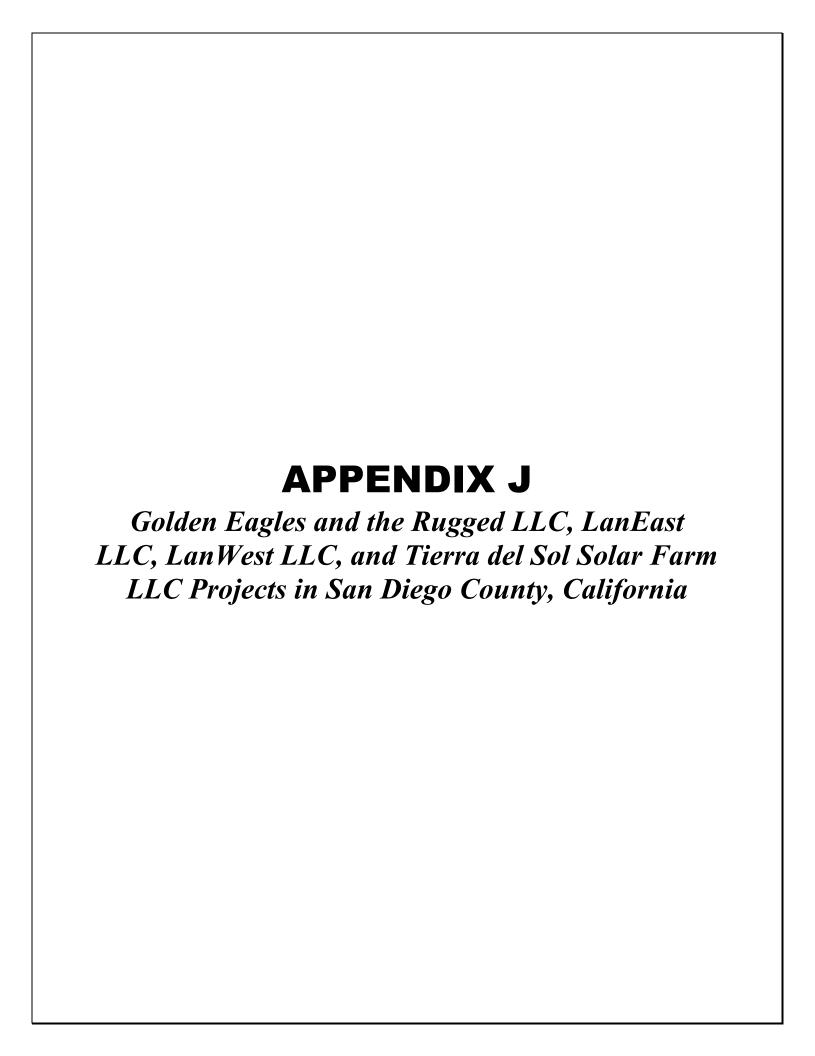
²Vicinity refers to the Live Oak Springs, Campo, Tierra del Sol, Jacumba, Mount Laguna, Sweeny Pass, Cameron Corners, and Sombrero Peak USGS 7.5 minute quadrangles.

Bold species indicate species that were identified in the County's Pre-Application Summary Letter (County 2011)



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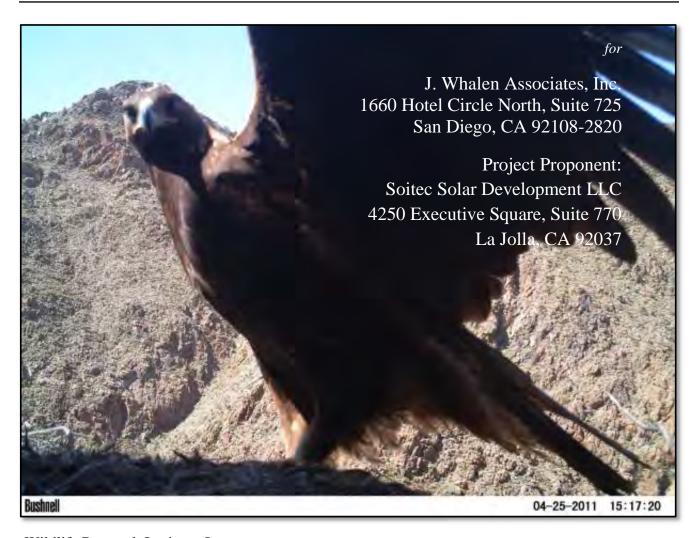




Final Report



Golden Eagles and the Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Projects in San Diego County, California



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CONFIDENTIALITY STATEMENT

The Wildlife Research Institute, Inc. (WRI) cares deeply about the fate of the population of golden eagles in San Diego County. That is why this report is marked "Confidential." Documentation of the reported territories is part of the WRI research database on golden eagles that includes data for the longest studied golden eagle population in the Western Hemisphere.

Golden eagles are a top predator and survive today only by nesting in remote, inaccessible places where they are subject to minimal human disturbance. Currently, new green energy projects are being proposed for areas that were formerly considered remote and inaccessible by most people. New roads that facilitate frequent access will further challenge the eagles in the future. Golden eagles often have to flee from humans if they are to survive; they are most sensitive to the presence of humans around their nest sites. The presence of humans within 400 meters (quarter mile) of a nesting pair imposes significant impacts on several aspects of golden eagle nesting behavior, and a distance of 800 meters (half mile) may still be insufficient to safeguard some nests from disturbance (Steidl *et al.* 1993). Golden eagles exhibit greater sensitivity to pedestrian stimuli compared to other raptors by flushing when pedestrian stimuli are at farther distances than the trigger distances of other raptors (Holmes *et al.* 1993). Therefore, releasing the enclosed information to the public or to persons who might use the information to visit the nests for climbing, photography or curiosity could cause the nest to fail during breeding season.

Human disturbance is one of the main factors negatively affecting golden eagles. WRI offers this report with detailed information about golden eagles and their nest sites for the sole purpose of protecting existing or potential breeding pairs from human-derived encroachment and development in and near these golden eagle territories. We hope and trust that the agencies and developers that use and share this information will be sensitive to the confidential nature of the following data and work toward the common goal of protecting golden eagles near Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas and elsewhere.

GOLDEN EAGLE INFORMATION

Generally, habitat changes in Southern California have been dramatic over time due to extensive urbanization (Bittner and Oakley 1998). The clear and compelling evidence is that man has caused a 55% reduction in the San Diego County golden eagle population since the 1800s, as the population has dropped from 104 breeding pairs in the late 1800s to 47 breeding pairs in 2011 (Bittner *et al.* 2011). A reduction of over 41% has been documented in this population over the last 61 years and the rate has increased 3-fold in the last 15 years from 0.5% per year to 1.5% per year (Bittner *et al.* 2011). Golden eagles' behaviors and their ability to survive and produce young, factors that contribute to the overall success of the species itself, are being directly affected. Habitat losses are increasing throughout the Western United States, and associated pressures on golden eagle populations are expected to increase if human activity and development continue to increase (Good *et al.* 2007).

In general, tolerance of human activity is not being adopted by the eagles, and the effects of the incompatibility are distinct. There is an inverse correlation between land development and golden eagle productivity, one that is not isolated to San Diego County or California (WRI unpub. data). Clear spatial overlaps were identified between new forests and abandoned golden eagle territories in Scotland (Whitfield *et al.* 2007). Prey abundance is one of the primary factors supporting the reproductive success of raptors, and available foraging habitat is one of the contributing factors that encourage overall health of golden eagles (Newton 1979, Krebs *et al.* 2001). The golden eagle is a meaningful umbrella species and their success, or lack thereof, reflects the health of many other species that occupy the same territories but are often harder to monitor. When we lose golden eagles, the reason is often that we are degrading the habitat to such a great extent that we are also affecting hundreds of other species.

WRI research of golden eagles via satellite telemetry indicates the constraining effects human encroachment is having on golden eagles in their territories. Golden eagle flight paths tracked by satellite are distributed to areas void of human disturbance, areas that are becoming less and less available with increases in development. Territories that are becoming formally listed as extirpated are most commonly due to human impact within territorial or foraging boundaries. There is the possibility that gradual and strategically-timed introduction of human activity may potentially desensitize wildlife, namely golden eagles, conditioning them to tolerate disturbance (WRI unpublished data). However, ensuring that lands used by golden eagles for foraging and nesting remain unaltered is the most effective way to avoid extirpation. This report is an attempt to recognize the significance of historical and current golden eagle activity in and around the Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas.

EXECUTIVE SUMMARY

footprint.
golden eagle territory has been monitored consistently by WRI since 1990. Historical records at date back to 1920. Photos were taken of the golden eagles in 1920 by John Colton. Prior to his death, John Colton communicated details and data about this territory to John Oakley and Dave Bittner. Numerous other biologists and the Bureau of Land Management (BLM), who manage the land on which the eagles nest, have also recognized the longevity of the territory. In the 1990s, WRI reported to the BLM that shooting at the by target shooters was killing nesting golden eagles. The BLM shut off the to shooting in 1995 and began closer monitoring. This stopped the to shooting in 1995 and began closer activity has increased over the past 15 years and the Department of Homeland Security now has a great deal of activity on that may now be a contributing factor in the failed attempts of this pair to nest and raise young. Although the pair continues to be seen on territory, production of young at has been negligible since 1997.
The golden eagle territory in the stablished territory also with a long history of activity. Golden eagles were seen in the by WRI volunteers in 1990 and the first nest site documented by WRI volunteer, Randy West, was occupied by a single young golden eagle chick in 1994. Data for the core nesting area, which is the limited due to the likelihood of a long history of activity and occupancy far beyond the scope of the oldest available recorded data. Recently, golden eagles in the produced chicks in 2011 and 2012, and WRI has documented nesting activity within this territory recently via remote, motion-activated nest cameras.
golden eagle territory is of the project. This pair has been sporadically productive over the years of observation. Human disturbance and nest cliff instability have been factors documented by WRI. In at least two separate years, mortality of young eagles while still in the nest has been an issue impacting this pair's productivity.
Additionally, WRI research identified a pair of breeding golden eagles,

forage near or within the proposed project area for Tierra del Sol Solar Farm LLC.

The cumulative project area is identified by WRI as a potential golden eagle flyway. Straight trajectory paths between GPS points collected via satellite telemetry estimate flight paths of golden eagles that fledged from other territories in San Diego County that are not adjacent to the cumulative project footprint. Six individual golden eagles' estimated flight paths were documented via satellite telemetry over the cumulative project footprint from 2007-2012; flight paths were estimated over the Rugged LLC project area, over the LanEast LLC project area and over the Tierra del Sol Solar Farm LLC project area. Flight paths of golden eagles were estimated via satellite telemetry to have traversed over multiple project areas and golden eagles were documented flying within the Rugged LLC zone as well as just outside of the project area by WRI ground observers.

BACKGROUND

In 1987, a group of eight biologists gathered at the home of Dan Brimm to discuss the obvious decline of the golden eagle population in San Diego County. Tom Scott and John Oakley were among those eight. In subsequent years, efforts turned to fully documenting the entire San Diego population after an initial survey of old golden eagle nest sites to determine if they were extirpated or active. The Golden Eagle Project, co-directed by Dave Bittner and John Oakley, funded mainly by Dave Bittner and maintained purely by volunteer efforts, became active in this undertaking in 1988 and subsequently, in 1992, assumed full responsibility for the project. As many as 50 volunteers and biologists each year have helped observe, document and band nesting pairs of golden eagles in San Diego and neighboring counties. In 1996, the Wildlife Research Institute, Inc. became incorporated as a self-funded, non-profit research institute and further expanded the Golden Eagle Project's study of the San Diego golden eagle population.

WRI has spent a great deal of effort training volunteers and new biologists extensively because identifying golden eagles is not an innate or common skill. Training is accomplished by taking each individual into the field with one or more of our experienced Golden Eagle Biologists numerous times during their first year. Most new WRI biologists also undergo an intensive 4-week training regimen during golden eagle migration in Montana. All WRI volunteers sign a non-disclosure agreement that binds them to not reveal any of the information they obtain from our work. This is to protect the information and prevent disturbance of golden eagle nest sites.

WRI has gained copious insight about behavioral adaptations exhibited by golden eagles. WRI Senior Biologist and Executive Director, Dave Bittner, has over 48 years of research experience with golden eagles and WRI staff have been studying San Diego's golden eagle population including for over 24 years. Thousands of hours of ground and aerial surveys have allowed WRI to anticipate certain circumstances from which outcomes can be extrapolated. Furthermore, interpretation of data collected using satellite and VHF transmitter technology has provided WRI with information on the flight and nesting behavior of golden eagles of all ages; data that can be compared to the terrain, weather patterns and areas of development. Data from satellite transmitters have demonstrated a broad picture of flight patterns adopted by golden eagles that can be generalized at least across the local population.

WRI's research of San Diego County's golden eagles has incorporated present-day analysis of data collected historically and more recently. Data from field observations and historical egg collections (Dixon 1937) help estimate productivity (ability to produce young) and activity within each territory. Data from James Dixon's 41-year study in the early 1900s and Tom Scott's analysis in the early 1980s (Scott 1985) have allowed WRI biologists to accurately determine the decline in the breeding golden eagle population of Northwestern San Diego County. These data were subsequently compiled with research performed by WRI for the most comprehensive dataset available for golden eagles in San Diego County.

Objectives of This Report

- 1. To provide information necessary for understanding significant historical and current golden eagle activity near Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas.
- 2. To provide a statement of facts that can be used to identify impacts and mitigation strategies to better manage golden eagle activity near Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas.
- 3. Identify any constraints on the project due to golden eagle use within the buffered landscape.

Objectives of WRI's Long-Term Study of Golden Eagles

- 1. To document past and present golden eagle nests and their territories.
- 2. To provide documentation on the primary foraging areas that may be critical to the success of future golden eagle pairs.
- 3. To monitor, over successive years, the use of nesting territories, cliffs, trees, etc., that may be central to territories and their success.
- 4. To monitor and document the pairs of golden eagles, their life history, and other data that may help evaluate the future success, or lack thereof, of the species in San Diego County and environs.
- 5. To track, with bands and telemetry, as many golden eagles as possible to determine movements, migration, pair exchanges and feeding areas for each pair.
- 6. To provide baseline data for city, county, state, federal and private land planners to help evaluate the merit of construction permitting in certain areas.
- 7. To provide statements of facts that will assist in mitigating land development that might destroy nesting territories in the future.
- 8. To document the level of adaptation of golden eagles to human encroachment so that eagles can be saved before the entire population, or a significant portion, of golden eagles in San Diego County become extirpated.
- 9. To determine by regular documentation the fledging success of golden eagles over time and the varying weather conditions that affect that success.
- 10. To determine golden eagle nesting history by documenting chronological information over extended time periods.
- 11. To determine the effects of major fires on the golden eagle; both short and long term.

METHODS

Historical Data

Historical information for territories comes from a compilation of museum records made by oologists who collected and traded eggs dating back to the late 1800s. Historical data was also collected from the Western Museum of Vertebrate Zoology, Los Angeles, California and university researchers and educators with an interest in eagles. WRI also interviewed some of the few remaining egg collectors (now deceased) and their young assistants who did the climbing into the nests. Most of the personal interviews were about nests and eggs collected from 1895 to the 1940s. John Oakley, Professor Emeritus, met and spoke with J. B. Dixon, a well-known egg collector, who collected golden eagle eggs from 1895 to 1936, and also spoke with and befriended several of the young assistants. Dave Bittner and John Oakley also met with Ray Quigley, who donated many of his records to WRI upon his death. John Oakley started studying golden eagles in San Diego County in the 1930s and has been associated with WRI's golden eagle research efforts since 1988. Contributors on record from private collections pertaining to the territories in question include early egg collectors and researchers like Randy West (volunteer and falconer), Tom Scott (professor and eagle researcher in the late 1970s and early 1980s), John Oakley (professor and eagle researcher from the 1930s thru 2012), Ray Quigley and many others. WRI has an established team of Golden Eagle Biologists and volunteer observers that has been active since 1988; WRI's ongoing golden eagle studies have been added to the above-mentioned historical records to assemble the most comprehensive database of golden eagle data in San Diego County, California.

Ground Surveys

Ground observations highlight behaviors otherwise missed during the short duration of an aerial survey of a single nest. Ground surveys provided an opportunity to make observations in a territory for long durations to gain information about the feeding areas and habits of golden eagles. Data from these types of surveys allowed WRI to infer what types of activities could disrupt incubation and/or disturb the adults. WRI observers spent approximately 4 hours in each territory on each visit. Observers visited a core nest area once a week until they could confirm incubation and, later, hatching and fledging. All flight paths of the eagles observed were documented and transcribed onto a map.

Field surveys were conducted from December through May of each year of study. Ground observers used at least 8x42-zoom binoculars and 20x60-zoom scopes to make observations. WRI's protocol disallows making ground observations that require approaching a golden eagle nest any closer than half a mile during incubation or the first 4 weeks after hatching. All eagle bandings are scheduled when the eagles are at least 5 weeks and before 8 weeks of age.

Data

The following data are specifically collected and are on file at WRI. Hand-drawn maps documenting flight paths, nests and perched eagles accompany datasets pertaining to golden eagle observations:

- Species and quantity observed
- Number of nests/alternative nests observed
- Condition of each nest, if possible, and whether or not it was active
- Nest aspect and elevation
- Approximate nest GPS coordinates and azimuth from observation point
- Nest substrate (cliff, transmission tower, etc.)
- Age class of golden eagles and other species observed, if determinable
- Behavior of species observed.

Aerial Surveys

WRI began using helicopters to supplement ground surveys in 1996 to determine the productivity of golden eagles in California. Using helicopters allowed nest site areas to be checked efficiently and allowed our biologists a unique vantage point from which new nests may be located that would most likely be missed from a ground position. Furthermore, due to the unobstructed downward view into the nests, we could document the age and number of young that facilitated the scheduling of subsequent banding and helped document nesting success. Twenty to thirty territories can be surveyed in a day from a helicopter, whereas a comparable survey via ground would take a month or more and could produce less exact nesting and productivity data.

Our methods have been adopted by the US Fish and Wildlife Service (USFWS) and integrated into the USFWS Interim Golden Eagle Guidance for surveying golden eagle territories (Pagel *et al.* 2010). WRI utilizes aerial survey opportunities via helicopter and pays out-of-pocket to add onto contracted routes in an effort to obtain information via aerial surveys on territories that exist but are not part of a specific project outline. Hughes 500 helicopters are used for these surveys because they are safe, small, stable and very maneuverable. Their stability allows a close approach (to within 20 to 30 meters of the cliff side) thereby making counts of young or eggs possible using stabilizing binoculars and high resolution, digital cameras equipped with long-focal-length, optically-stabilized lenses. These photos allow us to maintain an efficient 10- to 20-second hover period at each nest and to subsequently evaluate the details, such as nest contents, age of young and any other information, more carefully once we return to headquarters.

WRI data support golden eagles' indifference to helicopters. Most eagles will stand or sit in the nest undeterred from their usual behavior of preening or feeding. In over 700 golden eagle nests we have checked with a helicopter, we have flushed only one adult eagle off young and never off eggs. However, the eagle that flushed with a 4-week old chick in its nest may not have flown as a result of the helicopter, but may have coincidentally been ready to depart as we approached. We have actually observed adult eagles flying under the hovering helicopter and landing on their nest to deliver food or sticks to the nest while we documented activity and took pictures of the young. Similar results with helicopters have been documented at over 500 nest visits by other golden eagle researchers such as Carol McIntyre of Alaska, Mike Kochert of Idaho and in a recent focused study (Grubb et al. 2010, Kochert et al. 2007, McIntyre 2006). While monitoring golden eagles during the construction of a power line in 2011, WRI documented 24 helicopter flights within 30 minutes immediately above a golden eagle that was perched within 300 feet of its nest. The eagle only took brief glances in the direction of the helicopters as they first appeared in its field of vision then immediately resumed looking about its territory. In contrast, a person on foot within 400 meters (quarter mile) of a nesting pair imposes significant impacts on several aspects of golden eagle nesting behavior, and a distance of 800 meters (half mile) may still be insufficient to safeguard some nests from disturbance by pedestrians (Steidl et al. 1993).

According to the USFWS guidance (Pagel *et al.* 2010), all nest sites within a breeding territory are deemed occupied while raptors are demonstrating pair bonding activities and developing affinity to a given area. A golden eagle territory may be determined to be "active" (or more specifically "occupied") for the current breeding season if either of the following observations is made: (1) one or both of a golden eagle pair is explicitly observed demonstrating pair bonding activity, such as nest building or courtship behavior (deemed active with confirmed occupancy) or (2) if *evidence* of pair bonding activities is observed, such as observing a decorated nest, (deemed active with implied occupancy). A golden eagle territory is determined to be inactive if occupancy or breeding cannot be confirmed. This occurs if no pair bonding or evidence of nest building is observed for the current breeding season during the surveys. Territories that are inactive may subsequently become active again; golden eagles sometimes take a year or two hiatus from breeding and may continue to occupy the territory even in the absence of breeding.

Based on experience, WRI protocol requires that five years pass from the last recorded breeding and/or sighting of the bonded pair or single adult eagle on the territory in order to make the determination that the territory is "extirpated." Two examples depict why we wait at least five years: first, the golden eagle pair in San Diego, California, which hadn't successfully raised a single young in 11 years (1997 to 2008) due to constant human disturbance by climbers and hikers during breeding season, remained on territory and in 2008 began to breed again. This may have been a result of fires opening up additional foraging habitat which supported reproduction, but coincided more directly with climbing and hiking restrictions in the area. In this case, the

human behavior to compensate for imposed human disturbance. Second, the golden eagle territory, also in San Diego County, was listed as extirpated in 2005 and became active in 2007 when the pair subsumed the nest and foraging area. This shift to was a result of continuous disturbance by illegal immigrants within the core nesting territory at and the loss of a breeding bird due to electrocution. The net result was a reactivation of one territory and the loss of another.

Aerial survey routes were recorded and reported using a GPS system. During the surveys, significant incidental wildlife are recorded and reported including other sensitive species (i.e., peregrine falcons, prairie falcons, bighorn sheep). Golden eagle nests and their associated territories were documented. The activity status of all golden eagle nests were defined during the survey, if possible, and/or confirmed later upon review of photographs. Even in the absence of incubating females, observations of nest decoration such as fresh yucca or leafy green branches, as well as new nest sticks built into and above old nest material helped assess activity at the nest site for the current breeding season.

We surveyed previously documented core nesting areas and looked for new and/or alternate nest sites by concentrating on any area with suitable golden eagle nesting habitat. Nesting substrate included cliffs with geological features such as flat ledges or shallow cavities/caves that could allow for safe nest construction and that were high enough to provide protection from ground-dwelling predators. Cliffs were approached by helicopter systematically from the front and surveys were flown at speeds of approximately 20 to 30 knots; hovering near a specific nest site was periodically required to collect specific nest details or take photographs but usually did not exceed 10 to 20 seconds. Golden eagle nests can also be found with trees as the substrate. Tree-nesting golden eagles were harder to find because a good view of the substrate was often blocked by foliage. Therefore tree nesting areas were surveyed with a greater amount of helicopter time and supplemental ground surveys to determine the core nesting area. Helicopter surveys early in the nesting season would sometimes identify activity areas by direct observation of the adults sitting on dead trees or other open perch sites. This perch behavior is part of establishing and selecting a suitable nesting site; further detailed examination of the area generally revealed the actual nest.

Survey

Aerial surveys have been conducted in various years for golden eagle territories. The most recent initial Phase 1 occupancy surveys in golden eagle territories were conducted on February 22, 2012, with follow up Phase 2 productivity surveys conducted on April 24, 2012. was surveyed in 2010 by air and 2012 via ground. Surveys were conducted for the target species, golden eagle, and other raptor species. We used a Hughes-500 helicopter for the aerial surveys that provided seating for 3 Wildlife Biologists (including at least 2 Golden Eagle Biologists) and the pilot. Observer 1 (front right seat) was a Golden Eagle

Biologist who served as the primary observer for the right side of the helicopter as well as the navigator for the survey, observer 2 (back left seat) was a Golden Eagle Biologist who served as the primary observer for the left side of the helicopter and observer 3 (back right seat) was the primary note taker and secondary observer for the right side of the helicopter. The pilot used by WRI for these surveys also had extensive experience flying mountainous habitat for golden eagles and other cliff-dwelling raptors; the pilot was not responsible for survey observations.

GPS

Nest site and other location-specific data were determined and documented using hand-held GPS units (Garmin Map60GSx). A sequential number was assigned to each observation that corresponded to the GPS waypoint. Waypoints were recorded using the UTM grid in the NAD 83 Datum. GPS were also used to track our survey routes. Handwritten notes were taken on field forms that documented species, detailed observations and corresponding GPS waypoints.

Photography

Photographs were taken with Nikon equipment with GPS units attached so that latitude and longitude could be automatically recorded on each digital picture. Two high-resolution cameras were used; one for recording wide-angle shots (18-200mm optically-stabilized zoom lens) and another for recording close-ups (200-400mm optically-stabilized zoom lens). The 400mm zoom lens plus the ability to enlarge the digital photographs allowed accurate and detailed records to be captured with minimal disturbance to wildlife. This was also important because it allowed for thorough review and confirmation of our observations later in an environment that was more stable than the cockpit of a helicopter.

Data

We photographed all active golden eagle nests, some other raptor nests, representations of numerous inactive golden eagle nest sites and significant other wildlife species observed. The following data were also specifically collected and are on file at WRI:

- Species and quantity observed
- Number of nests/alternative nests observed
- Condition of each nest and whether or not it was active
- Nest aspect and elevation
- Nest GPS coordinates represented by a corresponding waypoint number
- Nest substrate (cliff, transmission tower, etc.)
- Age class of golden eagles and other species observed, if determinable
- Behavior of species observed.

It should be noted that red-tailed hawks in particular, as well as other raptors such as prairie falcons, sometimes utilize golden eagle nests for their own nesting. During surveys, these nests

were attributed to the current occupant (i.e., hawk or falcon), however the original nest builder (i.e., golden eagle) is recorded in the "Notes" section of the transect data sheet. These old golden eagle nests, when viewed along with more current nests, often help define the history and core nesting area/territory of a particular pair of eagles and were therefore included in the total count of golden eagle nests for the surveys.

Satellite Telemetry

WRI has affixed 22 satellite transmitters to golden eagles since 2007 in Southern California (model type: PTT-100, 70 gram unit from Microwave Telemetry, Inc.). The units were all attached via Teflon[©] ribbon harness backpack mount prepared and applied by WRI biologists. Marking/ telemetry was applied to nestlings in the nest via bio-climbing, whereas trapping of hatch-year, sub-adults and adults was via bow nets baited with live (vest-protected) pigeons or carcasses.

Return data were analyzed regularly and prepared via Google Earth Pro and ArcGIS and provided a spatial display of general flight paths by connecting GPS data points. Data were also analyzed for behavioral analysis. The data fields provided the location, and the time and date of a golden eagle at a given location, which could then be compared to topographical terrain maps, other golden eagle flight paths and behaviors, as well as development project sites in order to achieve all objectives.

GPS location data were the only explicit data recorded via satellite telemetry, whereas the flight paths displayed on the maps that follow were generalized as a straight trajectory represented by a straight line between two successive GPS points.

Data

- GPS coordinates
- Date
- Time
- Altitude
- Speed
- Course

Nest Cameras

Golden eagle nests at were affixed with motion-triggered remote field cameras (Bushnell Trophy Camera Camo, Model # 119446) by WRI biologists in 2012. Cameras were placed near the nests in the summer or fall, prior to nesting, and the cards

were retrieved after fledging. Photographs were reviewed and behaviors and activity were analyzed by WRI biologists upon retrieval of the memory cards.

Data

- Photograph
- Date
- Time
- Temperature
- Photograph number

Constraints

Data were limited for some years when no observations were recorded. Funding resources and/or limited personnel yielded missed opportunities for data collection by WRI. Historical data were a compilation of personal collections, museum records and personal communications and were often not researched systematically on an annual basis.

RESULTS

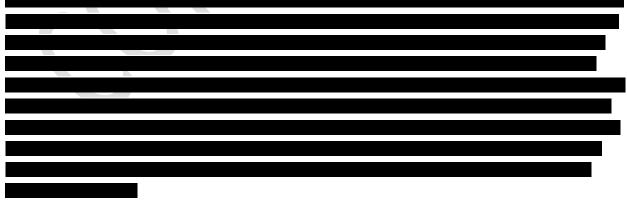
Although site-specific studies have not been conducted for any projects in the cumulative project area of Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas, WRI has conducted aerial and ground surveys in neighboring areas since 1988 and aerial surveys since 1996 (Figure 2). WRI's Senior Golden Eagle Biologists have used this accumulated data to create a best estimate of the breeding territories of golden eagles in the area surrounding Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas. The 4,000-foot buffer for nest site disturbance recommended by San Diego County was used as the criteria for determining potential impacts. The cumulative footprint of all project areas is located in an historical golden eagle territory that is currently extirpated and no current breeding or adult eagles are using this extirpated territory. WRI biologists have confirmed recent golden eagle breeding activity in ■ territories surrounding the cumulative project footprint, (Figure 1).

Figure 1. Estimated Golden Eagle Territory Outlines* near the Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Areas

WRI biologists observed 2 golden eagles flying between the grant of Rugged LLC Project Area and its on April 5, 2011, from 13:31 to 13:42 PST. On the same day from 13:47 to 13:56 PST, 1 golden eagle was observed flying from the (Figure 3). Although some assumptions can be made, neither physical markings nor tracking equipment were observed distinguishing the identity of the golden eagles, therefore it cannot be confirmed that they were the same individual golden eagles seen on both occasions.

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April 11, 2013

golden eagles from territories within San Diego County have transmitted GPS points near the project areas as documented via WRI satellite telemetry (Figure 4). The exact flight paths between each bird's GPS locations are unknown; however the short time duration between points and the altitude recordings (averaging 1000 meters above ground level [AGL]) suggest trajectories roughly consistent with that displayed in Figure 4. One of these 6 eagles still returns active data and continues to be tracked by WRI's ongoing satellite telemetry research team on a regular basis.



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Golden Eagle Territory

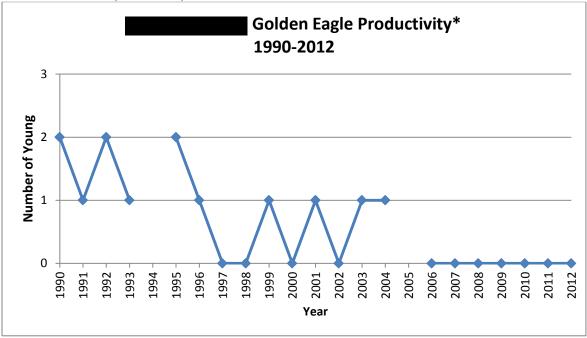
WRI collected data pertaining to the nesting golden eagles on per personal communications with Randy West, a falconer and WRI volunteer since 1988 and a lifetime resident of Boulevard, CA, Randy West is the only living biologist that remembers active

resident of Boulevard, CA. Randy West is the only living biologist that remembers active breeding golden eagles in the territory. He toured the territory with Dave Bittner in 1992 and identified locations of his observations of golden eagles and their nests. One nest, above still exists but is active with breeding red-tailed hawks.

WRI collected data pertaining to the nesting golden eagles on from 1990 to

2012 via ground and/or aerial surveys (Table 2).

Figure 6. Golden Eagle Productivity as a Function of Number of Young Produced Each Year (1990-2012).



^{*} Data included only for confirmed numbers of young; gaps in data represent years for which number of young was unconfirmed.

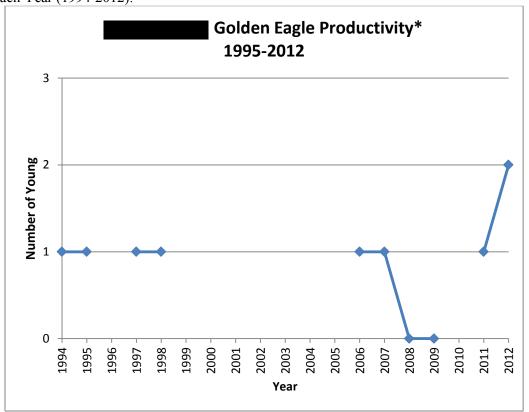
Table 3. Frequency of Confirmed Number of Golden Eagle Young Produced at Golden Eagle Territory (1990-2012).

Number of Young in a Year	Frequency of Number of Young
0	11
1	7
2	2
Total	20

Golden Eagle Territory

WRI collected data pertaining to the nesting golden eagles in from 1994 to 2012 via ground and/or aerial surveys (Table 4).

Figure 8. Golden Eagle Productivity as a Function of Number of Young Produced Each Year (1994-2012).



^{*} Data included only for confirmed numbers of young; gaps in data represent years for which number of young was unconfirmed.

Table 5. Frequency of Confirmed Number of Golden Eagle Young Produced at Golden Eagle Territory (1994-2012).

Number of Young in a Year	Frequency of Number of Young
0	2
1	4
2	1
Total	7

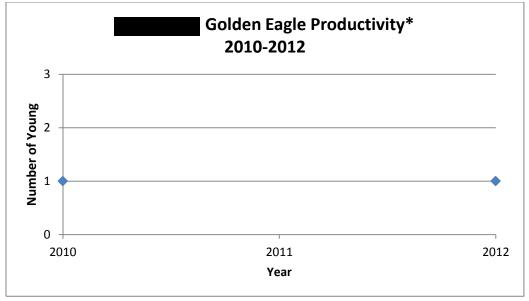
Golden Eagle Territory

WRI collected data pertaining to the nesting golden eagles in from 2010 to 2012 via aerial surveys (Table 6).



ND=No data.

Figure 10. Golden Eagle Productivity as a Function of Number of Young Produced Each Year (2010-2012).



^{*} Data included only for confirmed numbers of young; gaps in data represent years for which number of young was unconfirmed.

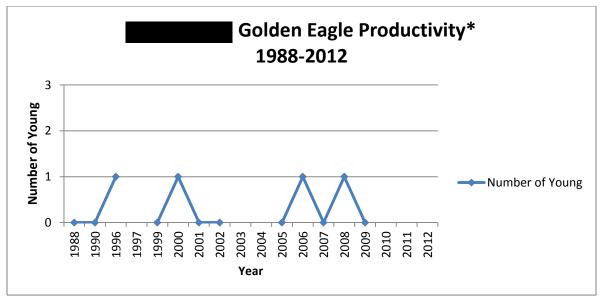
Table 7. Frequency of Confirmed Number of Golden Eagle Young Produced at Golden Eagle Territory (2010-2012).

Number of Young in a Year	Frequency of Number of Young
1	2
Total	2

WRI collected data pertaining to the nesting golden eagles in from 1988 to

2012 via ground and/or aerial surveys (Table 8).

Figure 11. Golden Eagle Productivity as a Function of Number of Young Produced Each Year (1988-2012).



^{*} Data included only for confirmed numbers of young; gaps in data represent years for which number of young was unconfirmed.

Table 9. Frequency of Confirmed Number of Golden Eagle Young Produced at Golden Eagle Territory (1988-2012).

Number of Young in a Year	Frequency of Number of Young
0	7
1	4
Total	11

DISCUSSION

Based on historical data and the results of WRI research in Southern California over the past 25 years, several golden eagle pairs have changed territory usage as human activity and development encroached on their established territories. Golden eagles are more likely than other grassland raptors to flush from their nests due to human disturbance (Holmes *et al.* 1993). After a single instance of disturbance by humans, golden eagles will return to their nests after people leave the area, but their return might be in vain if the weather is cool or rainy because the eggs will have been chilled or the young will have died from exposure or predation, often by ravens or red-tailed hawks. Given the incredible investment of time and energy that is required to successfully produce even one young, disturbance is a serious impact on the eagle population.

Nature also plays a role in impacting golden eagle populations. The pair raised young almost every year from 1990 to 1996 (Table 2). The pair raised young almost every year from 1994 to 1998 (Table 4). However, reproduction has been much lower for both territories since the ongoing drought that started in 1998. This is consistent with all other desert-associated golden eagle breeding pairs. Along the desert margins and within the desert habitat of San Diego County, territories have been established by of golden eagles. Since 1998, only one or two of these have successfully fledged young each year. This likely coincides with low jackrabbit populations, a dietary component that desert-nesting eagles depend upon for feeding young; golden eagle reproduction was documented as being limited by black-tailed jackrabbit scarcity during a 23-year study (Kochert *et al.* 2007).

The cumulative project area is located in a potential golden eagle flyway zone, especially for golden eagles in territories established in . Years of research shows that eagles move great distances in a very short period of time (Bittner et al. 2011). Results from WRI's satellite telemetry research documented individual golden eagles flying near all project areas with estimated flight paths within every project's 4,000-ft buffer zone (Figure 4). For example, golden eagles tracked via satellite telemetry with GPS locations on either side of Tierra del Sol Solar Farm LLC with altitudes recorded 1000 meters AGL indicate the golden eagles were in transit when in that area. Golden eagles equipped with telemetry are a small sample size of the local population; many other unmarked golden eagles could have traversed the area near or within project areas. Therefore we cannot say with certainty that eagles do not use the area around or within the project footprint although there are other nearby open areas in addition to those apportioned for Rugged LLC, LanEast LLC, LanWest LLC or Tierra del Sol Solar Farm LLC that are suitable for golden eagle foraging activity. For example, WRI has been observing adult and juvenile golden eagles foraging in the open valley and oak grassland savannah areas , California, for many years. In their current states, the project areas would not be conducive to good eagle foraging, however one fire would open it up and create a suitable golden eagle foraging habitat from 2 years to at least up to 8 years post fire. Work involving road access construction for solar panel placement might also open up hunting territory. These are

unknowns but need to be considered when evaluating the overall potential impacts to golden eagles.

Over the past three years, WRI has had biologists studying golden eagles in the area just north of the proposed solar projects. During these studies, several non-resident hatch-year golden eagles have been observed flying north from Mexico. Although the natal origin of each of those birds has not been confirmed, WRI has records of more than pairs of golden eagles in northern Baja California Norte, Mexico, and these transient eagles may be from breeding territories immediately south of the border.

Rugged LLC, LanEast LLC and LanWest Project Areas

Golden eagles at use	land apportioned in the Rugged LLC
and LanEast LLC Project Areas as part of their territorie	s; these territorial boundary data are
based on ground observations and 25 years of monitoring	g (Figure 1). The Rugged LLC, LanEast
LLC and LanWest LLC project footprints are located at	the
golden eagle territories; therefore us	sage at the project site is expected to be
less than that in their core nesting areas. However, eagles	s will fly several miles to acquire food or
water; Tule Lake, located just east of the project footprin	at is an area that the
golden eagles frequent to drink, bathe or hunt for waterfor	owl based on visual observations by
WRI Senior Golden Eagle Biologist Dave Bittner and Ra	andy West, BLM Biologist (pers.
comm.).Golden eagles in the	territories have not been
equipped with satellite transmitter backpacks but a VHF	transmitter was placed on one young
golden eagle from the pair in 2007. This b	pird flew to Altamont Pass near
Livermore, California, and was killed by collision with a	wind turbine blade in the Altamont
Wind Resource Center. During his first 6 months of life,	he frequented the McCain Valley site
on a number of occasions and always returned to	to roost.

<u>Tierra del Sol Solar Farm LLC Project Area</u>

Although the core nesting area has been documented, the complete boundary of the golden eagle foraging territory is currently unknown. Based on best available information, an approximation is provided in Figure 1 from criteria that are documented in WRI's database of golden eagle information. WRI recommends that territory analyses be undertaken to determine the current status and activity within golden eagle territory. Options for territory analysis include marking via satellite telemetry or ground surveys during an entire breeding season to determine the territory size and shape.

Golden Eagle Territory

An extirpated golden eagle territory, "the Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC project footprints (Figure 1). This void allows for subsumation of this territory by other golden eagles.

However, this territory has been considered extirpated since the 1980s. No resident golden eagles have been seen breeding in this territory for over 40 years. However, subsumation of habitat and extension of territories by neighboring golden eagles has been documented when a territory has become extirpated. Therefore, it would be possible for neighboring adult eagles to occasionally be seen in the old territory.
Golden Eagle Territory
The pair of golden eagles has a long history of occupancy. The nest site was known and documented as early as 1920, although annual data only became available when WRI resumed observations at a later date. WRI began banding and monitoring the annual nesting and reproduction of this pair starting in 1990. Due to vehicle access to the area from
disturbance of the nesting pair has been occurring since monitoring began at the site in 1990. WRI worked with BLM during the 1990s in an effort to stop target shooting activities that occurred near the nesting cliffs. During this period, with signs that designated the area as a no shooting zone. Also at this time a young banded golden eagle was documented by WRI to have been shot in the nest prior to fledging.
Golden Eagle Territory
golden eagle territory has been monitored consistently by WRI from 1990 to
2012.

. Through empirical
nest evidence, WRI senior biologists established that this territory has likely existed throughout
at least the last century. The same pair of golden eagles was found to be nesting in a second
canyon within the
area and has obviously been active for many years prior to being discovered by our biologists.
have been identified and some show signs of usage over multiple years.
nuive coon running and come one wears of along cover manages years.
During ground surveys conducted by WRI in 2011, this pair of golden eagles has been
documented foraging and flying out of near the area that is now the proposed
Rugged LLC, LanEast LLC, LanWest LLC and Tierra del Sol Solar Farm LLC Project Sites
(Figure 3). WRI is also monitoring this territory via motion-activated nest cameras installed in
active and inactive nests, data that are currently in process of review (Photo 7 and Photo 8).
Golden Eagle Territory
In 2010, WRI located the core nesting area in a golden eagle territory with an active breeding pair of golden eagles who have successfully produced young in 2010 and
2012. Nest productivity was not checked by WRI in 2011. This pair of eagles has likely been
established for some time prior to its discovery by WRI in 2010 due to
. WRI Senior Golden Eagle Biologists deduce that the primary hunting
portion of the territory of these golden eagles is east of their core nesting area.
. The core nest
area is within of the project. The hunting area has not been specifically
confirmed so the use of the area by golden eagles near or within the Rugged LLC, LanEast LLC,
LanWest LLC and Tierra del Sol Solar Farm LLC project footprints is not well defined by WRI
Biologists. The exact territory boundary of this pair of golden eagles is currently unknown but WRI has provided our best estimate based on field observations (Figure 1).
wich has provided our best estimate based on field observations (Figure 1).
Golden Eagle Territory
WRI worked with the
define this golden eagle territory. WRI had identified the only known nest of the pair by 1990.
Another nest site exists although the exact location has not been identified. Young golden eagles

have been seen on territory in years when the known nest site was not used. Thi	s type of
observation suggests productivity and rearing of young is occurring at an unknown	own nest site. The
territory covers	limiting access to
thoroughly search all locations within the territory for the active nest site.	

ACKNOWLEDGEMENTS

Many individuals, including those egg collectors like Dixon, who contributed their egg collections and notes to research institutions, helped make this project a success. Historical data was kindly shared by the Western Museum of Vertebrate Zoology, Los Angeles, California, university researchers, and educators with an interest in eagles, egg collectors and their helpers still living and other WRI Golden Eagle studies. Contributors on record for our comprehensive report of Golden Eagle history from private collections include early egg collectors J. B. Dixon, A.M. Ingersoll, Harry L. Heaton, Raymond Quigley, E.E. SeChrist, Maurice Burns, N. K. and B.P. Carpenter, and Ed N. Harrison.

In addition to current WRI observers, the following observers and contributors deserve special recognition for their recent efforts:

John Oakley, John gave graciously of his time, field experience and money for over 40 years to help us and others learn about the San Diego County Golden Eagles

Dr. Tom Scott, Professor, UC Riverside. Tom conducted research on Golden Eagles in San Diego County from 1978-1982 for a Masters' Thesis. Tom has continued to help on this project and is on WRI's Board of Advisors.

We would also like to thank all the kind people who allowed us access to their property or provided keys to their locked gates so that we could drive instead of walk all those miles. Since "time" is our most valuable commodity during breeding season surveys, every saved step contributes to the success of a project like this one. The Bureau of Land Management, California State Parks, City of San Diego Water District, US Fish and Wildlife Refuges, Miramar Marine Air Station, Camp Pendleton, San Diego Parks and Recreation Department, and many private ranchers helped by allowing access to their lands for the surveys necessary to retrieve data for our comprehensive database.

Without the help of the above individuals and organizations, and at least 100 other volunteers, who for over 24 years have helped WRI gather the data necessary to present this report, we could not have presented so much information or as complete a report. To them we extend a very special "Thank you."

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