

**2009 Focused Surveys for the Least Bell's Vireo
and Southwestern Willow Flycatcher
Valley-Ivyglen Subtransmission Line Project**



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TABLE OF CONTENTS

	PAGE
1.0 INTRODUCTION.....	1
Project Description	1
1.1 Species Information: Least Bell's Vireo	1
1.2 Species Information: Southwestern Willow Flycatcher	2
2.0 METHODS	2
2.1 Least Bell's Vireo and Southwestern Willow Flycatcher	2
3.0 RESULTS	4
3.1 Habitat Description	4
3.2 Survey Results	4
3.2.1 Southwestern Willow Flycatcher	4
3.2.2 Least Bell's Vireo	4
4.0 LITERATURE CITED.....	5

LIST OF TABLES

Table 1	Least Bell's Vireo and Southwestern Willow Flycatcher Survey Data	3
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LIST OF APPENDICES

Appendix 1	Bird Species Lists	A1-1
Appendix 2	Southwestern Willow Flycatcher Survey Forms	A1-2
Appendix 3	Maps.....	A1-3
Appendix 4	Certification	A1-4

2009 Focused Surveys for the Least Bell's Vireo and Southwestern Willow Flycatcher Valley-Ivyglen Subtransmission Line Project

1.0 INTRODUCTION

This report presents the findings of focused surveys for the Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*) at suitable habitat patches along the Valley-Ivyglen Subtransmission Line Project east of Interstate 15 (see Map 1). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003).

Project Description

The proposed Valley-Ivyglen Subtransmission Line Project ultimately involves the construction of a new 115kV subtransmission line which will connect the Valley Substation to the Ivyglen Substation. This subtransmission line will be installed in an existing right-of-way (ROW) where available, and new ROWs where none exist. The Valley Substation is located in the southwest corner of an unincorporated area known as Romoland, adjacent to the city of Perris. The Ivyglen Substation is located in the southeastern portion of unincorporated Corona, along Temescal Canyon Road near Glen Ivy Hot Springs. The Ivyglen Substation is approximately 19 miles west of the Valley Substation. At this time, however, construction goals are primarily focused on the area east of Interstate 15, which is where our 2009 surveys occurred.

The entire project is located in western Riverside County, California. The proposed subtransmission line routes surveyed in 2009 traverse unincorporated county lands, and the cities of Menifee, Perris, and Lake Elsinore. The alignments traverse portions of the Lake Elsinore and Romoland United States Geological Survey (USGS) 7.5-minute series topographic quadrangles.

1.1 Species Information: Least Bell's Vireo

Least Bell's Vireo (LBV) is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous and diagnostic song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). The population is slowly recovering as a result of habitat restoration and cowbird control efforts. Least Bell's Vireo is listed as Endangered by the California Department of Fish and Game (CDFG) and by the U.S. Fish and Wildlife Service (USFWS). The project area is not within designated critical habitat for the Least Bell's Vireo.

1.2 Species Information: Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWF) is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as endangered by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in October 2005 (USFWS 2005). The project area is not within designated critical habitat for the SWF.

Surveys have revealed populations along the Santa Margarita and San Luis Rey Rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and the Prado Basin and San Timoteo Creek in western Riverside County (J. Pike, Orange County Water District; R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The Southwestern Willow Flycatcher breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially Salt-Cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge *et al.* 1997).

2.0 METHODS

2.1 Least Bell's Vireo and Southwestern Willow Flycatcher

Areas considered to contain suitable habitat along the eastern project route are:

1. Unnamed Riparian Patch 1: approximate UTM of survey area: Zone 11, 478950E, 3732690N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute *Romoland, Calif* quadrangle. See Maps 2A and 3A.
2. Unnamed Riparian Patch 2: approximate UTM of survey area: Zone 11, 478330E, 3732650N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute *Romoland, Calif* quadrangle. See Maps 2A and 3A.
3. San Jacinto River: approximate UTM at east end of survey area: Zone 11, 477600E, 3732940N (NAD27); approximate UTM at west end of survey area: Zone 11, 476690E, 3732765N (NAD27). These points occur on lands mapped on the USGS 7.5 minute

Romoland, Calif and *Lake Elsinore, Calif.* quadrangles respectively. See Maps 2B and 3A.

4. Unnamed Tributary to the San Jacinto River: approximate UTM at south end of survey area: Zone 11, 476090E, 3732850N (NAD27); approximate UTM at north end of survey area: Zone 11, 475890E, 3733195N (NAD27). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle. See Maps 2C and 3A.
5. Unnamed Riparian Patch 5: approximate UTM of survey area: Zone 11, 469915E, 3729070N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute *Romoland, Calif* quadrangle. See Maps 2D and 3B.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed eight times by AMEC Earth and Environmental (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart from 10 April to 31 July. The SWF protocol requires five survey visits. The first is during the period from 15 May to 31 May, the second from 1 to 21 June, and visits three through five are to be performed at least five days apart from 22 June to 17 July (Sogge *et al.* 1997). The SWF surveys were performed concurrently with LBV surveys.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the two target species. During the SWF surveys, recordings of their vocalizations were broadcast every 20-30 meters, as required by protocol. All bird species detected during the surveys were recorded in field notes.

Surveys were performed by Chet McGaugh (federal Endangered Species Permit TE836517-6), Stephen J. Myers (TE804203-9), and John F. Green (TE054011-2). Table 1 summarizes the surveys. The survey areas are illustrated on Maps 2A through 2D (aerial photos) and 3A through 3B (USFWS required topographic maps).

Table 1. Least Bell's Vireo and Southwestern Willow Flycatcher Survey Data

Date	Observer	Time (PDT)	Temp. (°F)	Wind (mph)	Sky (% cover)
28 April 2009	John F. Green	0750-1105	55-65	1-2	90-30
15 May 2009†*	Chet McGaugh	0610-1110	60-80	0	0
26 May 2009†*	John F. Green	0550-0835	60-60	1-2	100
5 June 2009†	Chet McGaugh	0605-1045	52-66	-	partly cloudy
16 June 2009	Chet McGaugh	0630-1100	59-73	-	high clouds/sunny
27 June 2009†	John F. Green	0545-0825	62-80	0-1	0
7 July 2009†	Stephen J. Myers	0625-1020	64-85	0	0
17 July 2009†	Chet McGaugh	0555-1040	70-88	-	-
28 July 2009*	John F. Green	0825-0835	80	1	0

† SWF and LBV surveys conducted concurrently. Other surveys were for LBV only.

* Survey patch 5 missed on 15 May. Makeup visits made 26 May (SWF) & 28 July (LBV)

3.0 RESULTS

3.1 Habitat Description

In Area 3, the transmission line route roughly parallels the San Jacinto River. The river banks are lined with narrow strips of intermittent willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and widely scattered Fremont Cottonwoods (*Populus fremontii*). The river contained continuous surface water at the inception of the surveys, but it had dried to isolated pools by the end of the survey season. The Area 4 tributary is lined with fairly dense willow scrub and woodland, and also contained intermittent surface water. Isolated riparian patches, Areas 1, 2, and 5, contained a similar mix of riparian species. These patches occur in probably natural washes which were formerly seasonal only. Constant drainage from developments around these patches has created and sustained these limited areas of riparian vegetation.

3.2 Survey Results

Ninety bird species were detected during 2009 focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Dendroica petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

3.2.1 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers were detected at any of the survey areas. On 26 May during a LBV survey, a single Willow Flycatcher was present in Survey Area 1 (see Map 2A). This date is within the peak period of spring migration of the species in southern California, and the bird was not found during any Willow Flycatcher surveys, or during any other subsequent LBV survey. Therefore, AMEC concludes that this bird was a migrant of a more northerly subspecies, and not a Southwestern Willow Flycatcher (subspecies *E.t. extimus*).

3.2.2 Least Bell's Vireo

A singing male Least Bell's Vireo was detected at the north end of Survey Area 4 on 28 April and was subsequently detected there on four additional visits through 27 June. On that same day, 27 June, one or two silent birds were detected towards the south end of Area 4, and on 7 July, the only bird detected was a singing male at the south end of Area 4 (see Map 2C). The only LBV detected east of Interstate 15 during 2007 surveys (AMEC 2007) was in this same tributary. Detections in 2009 suggest that there was a single territory here again, with a foraging territorial male, and perhaps a female and/or fledgling.

4.0 LITERATURE CITED

- AMEC. 2007. Focused Surveys for the Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo for the Valley-Ivyglen Transmission Line Project. Unpublished report prepared for SCE.
- Brown, B.T. 1993. Bell's Vireo. *In* The birds of North America, No. 35 (A. Poole, P. Stettenheim, and F. Gill, Eds.). Philadelphia: The Academy of Natural Sciences; Washington, D.C.: The American Ornithologists' Union.
- Franzreb, K.E. 1987. Endangered status and strategies for conservation of the Least Bell's Vireo (*Vireo bellii pusillus*) in California. *W. Birds* 18:43-49.
- Garrett, K. and J. Dunn. 1981. Birds of southern California: Status and distribution. Los Angeles Audubon Soc., Los Angeles, CA.
- Goldwasser, S. 1978. Distribution, reproductive success, and impact of nest parasitism by Brown-headed Cowbirds on Least Bell's Vireos. Unpublished report prepared for the Resources Agency, California Department of Fish and Game, Sacramento, CA.
- Greaves, J.M. 1987. Nest-site tenacity of Least Bell's Vireos. *Western Birds* 18: 50-54.
- Grinnell, J. and A.H. Miller. 1944. The Distribution of the Birds of California. *Pac. Coast Avif.* 27.
- Marshall, R.M. 2000. Population status on breeding grounds. Pp. 3-11 *in* Status, ecology, and conservation of the Southwestern Willow Flycatcher (Finch, D.M. and S.H. Stoleson, eds.). Gen. Tech. Rpt. RMRS-GTR-60, U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station, Ogden, UT.
- Riverside County Integrated Project. 2003. MSHCP Final Documents. Online at: <http://www.rcip.org/conservation.htm>
- Sogge, M.K., R.M. Marshall, S.J. Sferra, and T.J. Tibbitts. 1997. A Southwestern Willow Flycatcher natural history summary and survey protocol. Technical report NPS/NAUCPRS/NRTR-97/12, National Park Service, Denver.
- United States Fish and Wildlife Service. 2001. Least Bell's Vireo survey guidelines. Ecological Services, Carlsbad Fish and Wildlife Office, Carlsbad, CA.
- United States Fish and Wildlife Service. 2005. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Southwestern Willow Flycatcher (*Empidonax traillii extimus*); Final Rule. Federal Register 70:60866-61009.
- Unitt, P. 1987. *Empidonax traillii extimus*: An endangered subspecies. *W. Birds* 18:137-162.

**APPENDIX 1
BIRD SPECIES LIST**

BIRD SPECIES LIST

This list reports only bird species or their sign which were observed along the project alignment during 2009 focused bird surveys. Nomenclature and taxonomy for birds observed on site generally follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

- sp.-Identified only to genus; species unknown plural = spp.
- * Non-native species
 - ** Sensitive species (State or Federally Listed as Threatened or Endangered, or a CDFG Species of Special Concern / Watch List Species, or a USFWS Bird of Conservation Concern)

BIRDS

Swans, Geese, and Ducks

Mallard

New World Quail

California Quail

Bitterns and Herons

American Bittern

Great Blue Heron

Great Egret

Snowy Egret

Green Heron

Black-crowned Night-Heron

American Vultures

Turkey Vulture

Hawks, Kites, Eagles

**Northern Harrier

**Cooper's Hawk

Red-shouldered Hawk

Red-tailed Hawk

Falcons

American Kestrel

**Peregrine Falcon

**Prairie Falcon

Plovers and Lapwings

Killdeer

Sandpipers, Phalaropes, and Allies

Greater Yellowlegs

Short-billed Dowitcher

AVES

Anatidae

Anas platyrhynchos

Odontophoridae

Callipepla californica

Ardeidae

Botaurus lentiginosus

Ardea herodias

Ardea alba

Egretta thula

Butorides virescens

Nycticorax nycticorax

Cathartidae

Cathartes aura

Accipitridae

Circus cyaneus

Accipiter cooperii

Buteo lineatus

Buteo jamaicensis

Falconidae

Falco sparverius

Falco peregrinus

Falco mexicanus

Charadriidae

Charadrius vociferus

Scolopacidae

Tringa melanoleuca

Limnodromus griseus

Pigeons and Doves

*Rock Pigeon
Eurasian Collared-Dove
Mourning Dove

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Barn Owls

Barn Owl

Typical Owls

**Burrowing Owl

Hummingbirds

Black-chinned Hummingbird
Anna's Hummingbird
Costa's Hummingbird
Rufous / Allen's Hummingbird

Kingfishers

Belted Kingfisher

Woodpeckers and Allies

Nuttall's Woodpecker
Downy Woodpecker

Flycatchers

Western Wood-Pewee
**Willow Flycatcher
Pacific-slope Flycatcher
Black Phoebe
Say's Phoebe
Ash-throated Flycatcher
Cassin's Kingbird
Western Kingbird

Shrikes

**Loggerhead Shrike

Vireos

**Least Bell's Vireo
Warbling Vireo

Jays, Magpies and Crows

Western Scrub-Jay
American Crow
Common Raven

Larks

**Horned Lark

Swallows

Northern Rough-winged Swallow
Cliff Swallow
Barn Swallow

Columbidae

Columba livia
Streptopelia decaocto
Zenaida macroura

Cuculidae

Geococcyx californianus

Tytonidae

Tyto alba

Strigidae

Athene cunicularia

Trochilidae

Archilochus alexandri
Calypte anna
Calypte costae
Selasphorus sasin

Alcedinidae

Ceryle alcyon

Picidae

Picoides nuttallii
Picoides pubescens

Tyrannidae

Contopus sordidulus
Empidonax traillii
Empidonax difficilis
Sayornis nigricans
Sayornis saya
Myiarchus cinerascens
Tyrannus vociferus
Tyrannus verticalis

Laniidae

Lanius ludovicianus

Vireonidae

Vireo bellii pusillus
Vireo gilvus

Corvidae

Aphelocoma californica
Corvus brachyrhynchos
Corvus corax

Alaudidae

Eremophila alpestris

Hirundinidae

Stelgidopteryx serripennis
Petrochelidon pyrrhonota
Hirundo rustica

Long-tailed Tits and Bushtits

Bushtit

Wrens

Rock Wren
House Wren
Bewick's Wren

Old World Warblers and Gnatcatchers

Blue-gray Gnatcatcher

Thrushes

Swainson's Thrush

Mockingbirds, Thrashers, and Allies

Northern Mockingbird
California Thrasher

Starlings and Allies

*European Starling

Wood-Warblers

Orange-crowned Warbler
Nashville Warbler
**Yellow Warbler
Yellow-rumped Warbler
Black-throated Gray Warbler
Townsend's Warbler
Hermit Warbler
Wilson's Warbler
Common Yellowthroat
**Yellow-breasted Chat

Emberizines

Spotted Towhee
California Towhee
**Southern California Rufous-crowned Sparrow
Lark Sparrow
**Bell's Sage Sparrow
Savannah Sparrow
Song Sparrow

Cardinals and Allies

Western Tanager
Black-headed Grosbeak
Blue Grosbeak

Blackbirds and Allies

Red-winged Blackbird
Western Meadowlark
Brewer's Blackbird
Great-tailed Grackle
Brown-headed Cowbird
Hooded Oriole
Bullock's Oriole

Aegithalidae

Psaltriparus minimus

Troglodytidae

Salpinctes obsoletus
Troglodytes aedon
Thryomanes bewickii

Sylviidae

Poliophtila caerulea

Turdidae

Catharus ustulatus

Mimidae

Mimus polyglottos
Toxostoma redivivum

Sturnidae

Sturnus vulgaris

Parulidae

Vermivora celata
Vermivora ruficapilla
Dendroica petechia brewsteri
Dendroica coronata
Dendroica nigrescens
Dendroica townsendi
Dendroica occidentalis
Wilsonia pusilla
Geothlypis trichas
Icteria virens

Emberizidae

Pipilo maculatus
Pipilo crissalis
Aimophila ruficeps canescens
Chondestes grammacus
Amphispiza belli belli
Passerculus sandwichensis
Melospiza melodia

Cardinalidae

Piranga ludoviciana
Pheucticus melanocephalus
Guiraca caerulea

Icteridae

Agelaius phoeniceus
Sturnella neglecta
Euphagus cyanocephalus
Quiscalus mexicanus
Molothrus ater
Icterus cucullatus
Icterus bullockii

2009 Focused Surveys
Valley-Ivyglen Transmission Line Project
September 2009

Finches and Allies

House Finch
Lesser Goldfinch
American Goldfinch

Old World Sparrows

*House Sparrow

Fringillidae

Carpodacus mexicanus
Spinus psaltria
Spinus tristis

Passeridae

Passer domesticus

APPENDIX 2
SWF SURVEY FORMS

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Untrampered Riparian Patch 1 Was site surveyed in previous year? Yes No 2007
 If yes, what site name was used? Valley Ivyglen: San Jacinto River

County Riverside State CA USGS Quad Name Rornoland, CA

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No
 Site Coordinates: Start: N 4 E _____ UTM
 Stop: N 3732690 E 478950 UTM Zone 11
 Elevation 1455 (feet) meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
<u>1 Chet McGaugh</u>	Date <u>5-15-09</u> start <u>0610</u> stop <u>0620</u> total hrs <u>1/6</u>	—	—	—	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>2 Chet McGaugh</u>	Date <u>6-5-09</u> Start <u>0625</u> Stop <u>0615</u> total hrs <u>1/6</u>	—	—	—	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>3 John Green</u>	Date <u>6-27-09</u> Start <u>0545</u> Stop <u>0555</u> total hrs <u>1/6</u>	—	—	—	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>Steve Myers</u>	Date <u>7-7-09</u> start <u>0625</u> stop <u>0635</u> total hrs <u>1/6</u>	—	—	—	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Chet McGaugh</u>	Date <u>7-17-09</u> start <u>0555</u> stop <u>0605</u> total hrs <u>1/6</u>	—	—	—	<u>N</u>	<u>Y</u>	<u>N</u>	
Overall Site Summary (Total only resident WIFLs)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>5/6</u>		<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>			

Name of Reporting Individual John F. Green Date Report Completed 9-28-09

Submit the original of this form. Retain a copy for your records.

Fill in the following information completely. Submit original form. Retain copy for your records.

Name of Reporting Individual John Phone # 951 369-8060
Affiliation AMEC Earth & Environmental Email john.f.green@amec.com

Site Name Unnamed Riparian Patch 1
Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) See page 1

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 100 feet (specify units, e.g., miles = mi, kilometers = km, meters = m)

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

If site was surveyed last year, did you survey the same general area this year? Yes / No If no, summarize in comments below.
Not surveyed last year

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):
 Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
 Mixed native and exotic plants (mostly native)
 Mixed native and exotic plants (mostly exotic) Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Salix sp., Populus fremontii, Baccharis salicifolia

Average height of canopy: 15-20 feet (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)
If yes, describe in comments section below.

Remember to attach a xerox copy of a USGS quad/topographical map (REQUIRED) of the survey area, noting the survey site and location of WIFL detections. You may also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map.

Comments (attach additional sheets if necessary): _____

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Unnamed Riparian Patch 2 Was site surveyed in previous year? Yes No 2007
 If yes, what site name was used? Valley Ivyglen: San Jacinto River

County Riverside State CA USGS Quad Name Romoland, CA

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No
 Site Coordinates: Start: N 3732650 E 478330 UTM
 Stop: N _____ E _____ UTM Zone 11
 Elevation 1480 (feet) meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
<u>1 Chet McGaugh</u>	Date <u>5-15-09</u> start <u>0625</u> stop <u>0635</u> total hrs <u>1/6</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>2 Chet McGaugh</u>	Date <u>6-5-09</u> Start <u>0620</u> Stop <u>0630</u> total hrs <u>1/6</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>3 John Green</u>	Date <u>6-27-09</u> Start <u>0600</u> Stop <u>0610</u> total hrs <u>1/6</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Steve Myers</u>	Date <u>7-7-09</u> start <u>0640</u> stop <u>0650</u> total hrs <u>1/6</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Chet McGaugh</u>	Date <u>7-17-09</u> start <u>0610</u> stop <u>0620</u> total hrs <u>1/6</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
Overall Site Summary (Total only resident WIFLs)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>5/6</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			

Name of Reporting Individual John F. Green Date Report Completed 9-28-09

Submit the original of this form. Retain a copy for your records.

Fill in the following information completely. Submit original form. Retain copy for your records.

Name of Reporting Individual John F. Green Phone # 951 369-8060

Affiliation AMEC Earth & Environmental Email john.f.green@amec.com

Site Name Unnamed Riparian Patch 2

Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) see page 1

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: ~100 ft. (specify units, e.g., miles = mi, kilometers = km, meters = m)

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

If site was surveyed last year, did you survey the same general area this year? Yes / No If no, summarize in comments below.

Not surveyed last year

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
 Mixed native and exotic plants (mostly native)
 Mixed native and exotic plants (mostly exotic)
 Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Salix sp., Populus fremontii, Baccharis salicifolia

Average height of canopy: 15-20 feet (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)

If yes, describe in comments section below.

Remember to attach a xerox copy of a USGS quad/topographical map (REQUIRED) of the survey area, noting the survey site and location of WIFL detections. You may also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map.

Comments (attach additional sheets if necessary): _____

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name San Jacinto River Was site surveyed in previous year? Yes No 2007
 If yes, what site name was used? Valley Inyogen: San Jacinto River

County Riverside State CA USGS Quad Name Romoland & Lake Elsinore, CA

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No
 Site Coordinates: Start: N 3732940 E 477600 UTM
 Stop: N 3732765 E 475890 UTM Zone 11
 Elevation 1400 (feet) meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
<u>1 Chet McGaugh</u>	Date <u>5-15-09</u> start <u>0640</u> stop <u>0930</u> total hrs <u>2h 50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>2 Chet McGaugh</u>	Date <u>6-5-09</u> Start <u>0635</u> Stop <u>0925</u> total hrs <u>2h 50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>3 John Green</u>	Date <u>6-27-09</u> Start <u>0615</u> Stop <u>0725</u> total hrs <u>1h 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Steve Myers</u>	Date <u>7-7-09</u> start <u>0655</u> stop <u>0855</u> total hrs <u>2h</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Chet McGaugh</u>	Date <u>7-17-09</u> start <u>0625</u> stop <u>0925</u> total hrs <u>3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
Overall Site Summary (Total only resident WIFLs)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs	<u>11h 50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			

Name of Reporting Individual John F. Green Date Report Completed 9-28-09

Submit the original of this form. Retain a copy for your records.

Fill in the following information completely. Submit original form. Retain copy for your records.

Name of Reporting Individual John F. Green Phone # 951 369-8060

Affiliation AMEC Earth & Environmental Email john.f.green@amec.com

Site Name San Jacinto River
Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) see page 1

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: ~0.6 mi (specify units, e.g., miles = mi, kilometers = km, meters = m)

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

If site was surveyed last year, did you survey the same general area this year? Yes / No If no, summarize in comments below.
Not surveyed last year

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):
 Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
 Mixed native and exotic plants (mostly native)
 Mixed native and exotic plants (mostly exotic) Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Salix sp., Populus fremontii, Baccharis salicifolia

Average height of canopy: 40-50 feet (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)
Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)
If yes, describe in comments section below.

Remember to attach a xerox copy of a USGS quad/topographical map (REQUIRED) of the survey area, noting the survey site and location of WIFL detections. You may also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map.

Comments (attach additional sheets if necessary): During the season river dried from flowing water to isolated pools.

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Unnamed Tributary to San Jacinto River Was site surveyed in previous year? Yes No 2007
 If yes, what site name was used? Valley Ivyglen: San Jacinto River

County Riverside State CA USGS Quad Name Lake Elsinore, CA

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No
 Site Coordinates: Start: N 3732850 E 476090 UTM
 Stop: N 3733195 E 475890 UTM Zone 11
 Elevation 1435 (feet) meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
<u>1 Chet McGaugh</u>	Date <u>05-15-09</u> start <u>0935</u> stop <u>1035</u> total hrs <u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>2 Chet McGaugh</u>	Date <u>6-5-09</u> Start <u>0930</u> Stop <u>1025</u> total hrs <u>55m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>3 John Green</u>	Date <u>6-27-09</u> Start <u>0730</u> Stop <u>0805</u> total hrs <u>35m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>Steve Myers</u>	Date <u>7-7-09</u> start <u>0900</u> stop <u>0965</u> total hrs <u>55m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Chet McGaugh</u>	Date <u>7-17-09</u> start <u>0930</u> stop <u>1020</u> total hrs <u>50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
Overall Site Summary (Total only resident WIFLs)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>4.25</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			

Name of Reporting Individual John F. Green Date Report Completed 9-28-09

Submit the original of this form. Retain a copy for your records.

Fill in the following information completely. Submit original form. Retain copy for your records.

Name of Reporting Individual John F. Green Phone # 951 369-8060

Affiliation AMEC Earth & Environmental Email john.f.green@amec.com

Site Name Unnamed Tributary to San Jacinto River

Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) see page 1

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: ~0.25 mi. (specify units, e.g., miles = mi, kilometers = km, meters = m)

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

If site was surveyed last year, did you survey the same general area this year? Yes/No If no, summarize in comments below.

Not surveyed last year

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
 Mixed native and exotic plants (mostly native)
 Mixed native and exotic plants (mostly exotic)
 Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Salix sp., Populus fremontii, Baccharis salicifolia

Average height of canopy: 30-40 feet (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)

If yes, describe in comments section below.

Remember to attach a xerox copy of a USGS quad/topographical map (REQUIRED) of the survey area, noting the survey site and location of WIFL detections. You may also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map.

Comments (attach additional sheets if necessary): _____

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Unnamed Riparian Patch 5 Was site surveyed in previous year? Yes No
 If yes, what site name was used? Valley Inyogen; San Jacinto River

County Riverside State CA USGS Quad Name Lake Elsinore, CA

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No

Site Coordinates: Start: N 3729070 E 469915 UTM
 Stop: N _____ E _____ UTM Zone 11

Elevation 1395 feet (feet) (meters (circle one))

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
<u>1 John Green</u>	Date <u>5-26-09</u> start <u>0550</u> stop <u>0600</u> total hrs <u>10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>2 Chet McGaugh</u>	Date <u>6-5-09</u> Start <u>1035</u> Stop <u>1045</u> total hrs <u>10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
<u>3 John Green</u>	Date <u>6-27-09</u> Start <u>0815</u> Stop <u>085</u> total hrs <u>10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Steve Myers</u>	Date <u>7-7-09</u> start <u>1010</u> stop <u>1020</u> total hrs <u>10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>N</u>	<u>N</u>	
<u>Chet McGaugh</u>	Date <u>7-17-09</u> start <u>1030</u> stop <u>1040</u> total hrs <u>10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
Overall Site Summary (Total only resident WIFLs)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>50m.</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			

Name of Reporting Individual John F. Green Date Report Completed 9-28-09

Submit the original of this form. Retain a copy for your records.

Fill in the following information completely. Submit original form. Retain copy for your records.

Name of Reporting Individual John F. Green Phone # 951 369-8060

Affiliation AMEC Earth & Environmental Email john.f.green@amec.com

Site Name Unnamed Riparian Patch 5
Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) see page 1

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: ~100 ft. (specify units, e.g., miles = mi, kilometers = km, meters = m)

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

If site was surveyed last year, did you survey the same general area this year? Yes / No If no, summarize in comments below.

Not surveyed last year

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
 Mixed native and exotic plants (mostly native)
 Mixed native and exotic plants (mostly exotic)
 Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Salix sp., Populus fremontii, Baccharis salicifolia

Average height of canopy: 25-35 feet (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

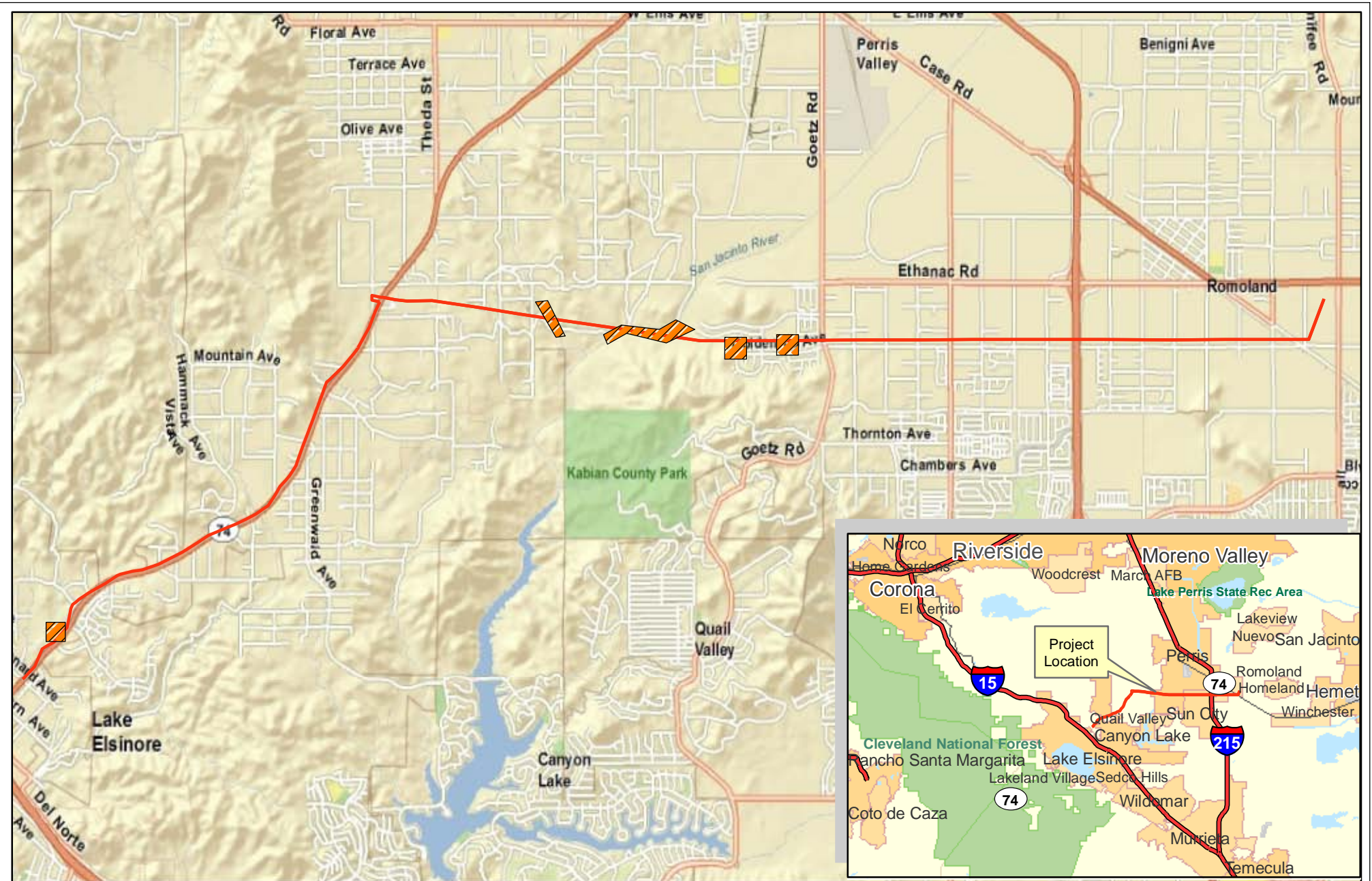
Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)

If yes, describe in comments section below.

Remember to attach a xerox copy of a USGS quad/topographical map (REQUIRED) of the survey area, noting the survey site and location of WIFL detections. You may also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map.

Comments (attach additional sheets if necessary):

APPENDIX 3
MAPS

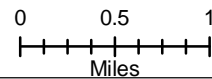


— Preferred Route
 Survey Area

Map Data-
 Projection: NAD 83 Zone 11
 Path: S:\active projects\SCE Projects\
 Ivyglen.Fogerty Substation 6151000801(San Diego)
 \BUOW 2009\maps
 Sources: SCE Ivyglen_routes_updated_8_20_09
 Date: 9/23/09

Valley-Ivyglen Subtransmission Line Project

2009 Riparian Birds Focused Surveys Vicinity & Location



map
1





Legend

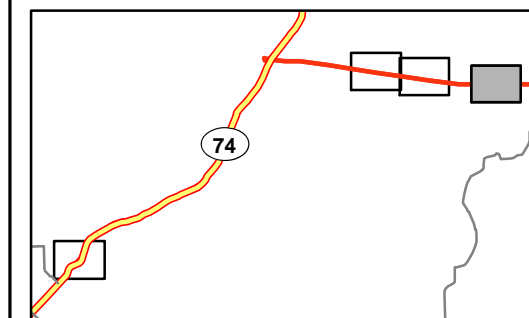
500-ft Buffer

Survey Areas

Transmission Line Segment

E-1

Willow Flycatcher



Base Data

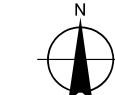
Map Index

Proposed Route

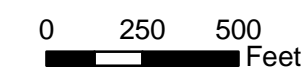
Location Map



Map Notes-
 Projection: NAD 83 zone11
 Source: S:\active projects\SCE Projects\Ivyglen.Fogerty Substation 6151000801(San Diego)\BUOW 2009\maps
 Resources: SCE Ivyglen_routes_updated_8_20_09
 Data: 9/22/09



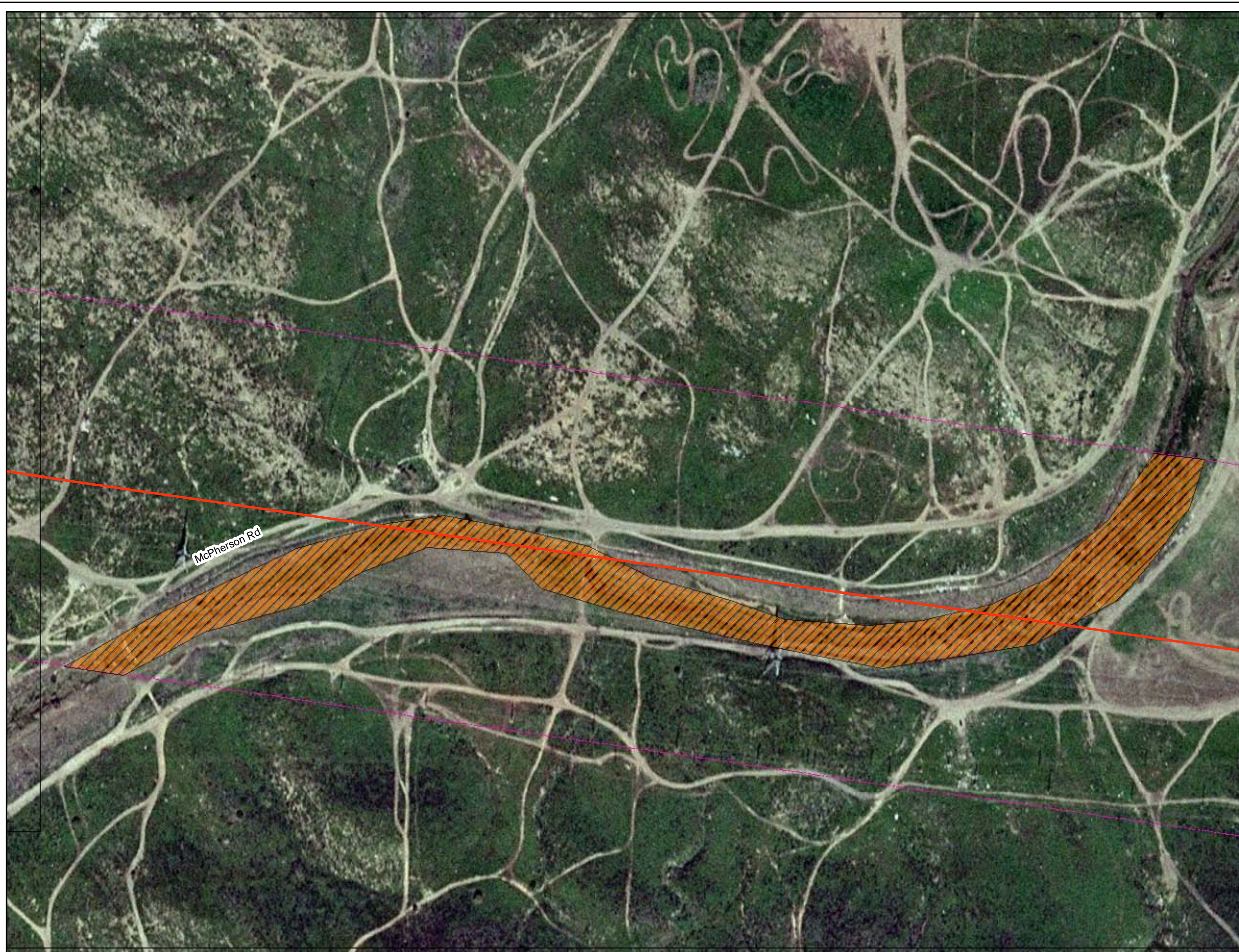
1 inch = 263 feet



Survey Areas 1 & 2

Map 2A

Valley - Ivyglen Transmission Line Project



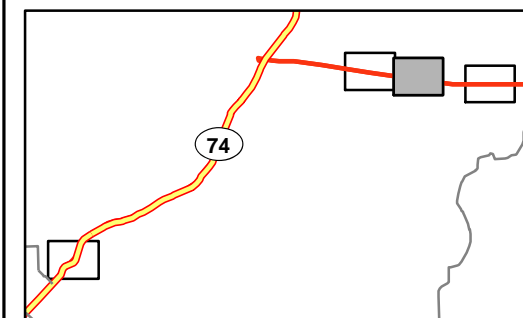
Legend

 500-ft Buffer

 Survey Areas

Transmission Line Segment

 E-1



Base Data

 Map Index

 Proposed Route

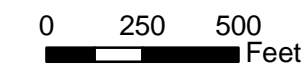
Location Map



Map Notes-
 Projection: NAD 83 zone11
 Source: S:\active projects\SCE Projects\
 Ivyglen.Fogerty Substation 6151000801(San Diego)\
 BUOW 2009\maps
 Resources: SCE Ivyglen_routes_updated_8_20_09
 Data: 9/22/09



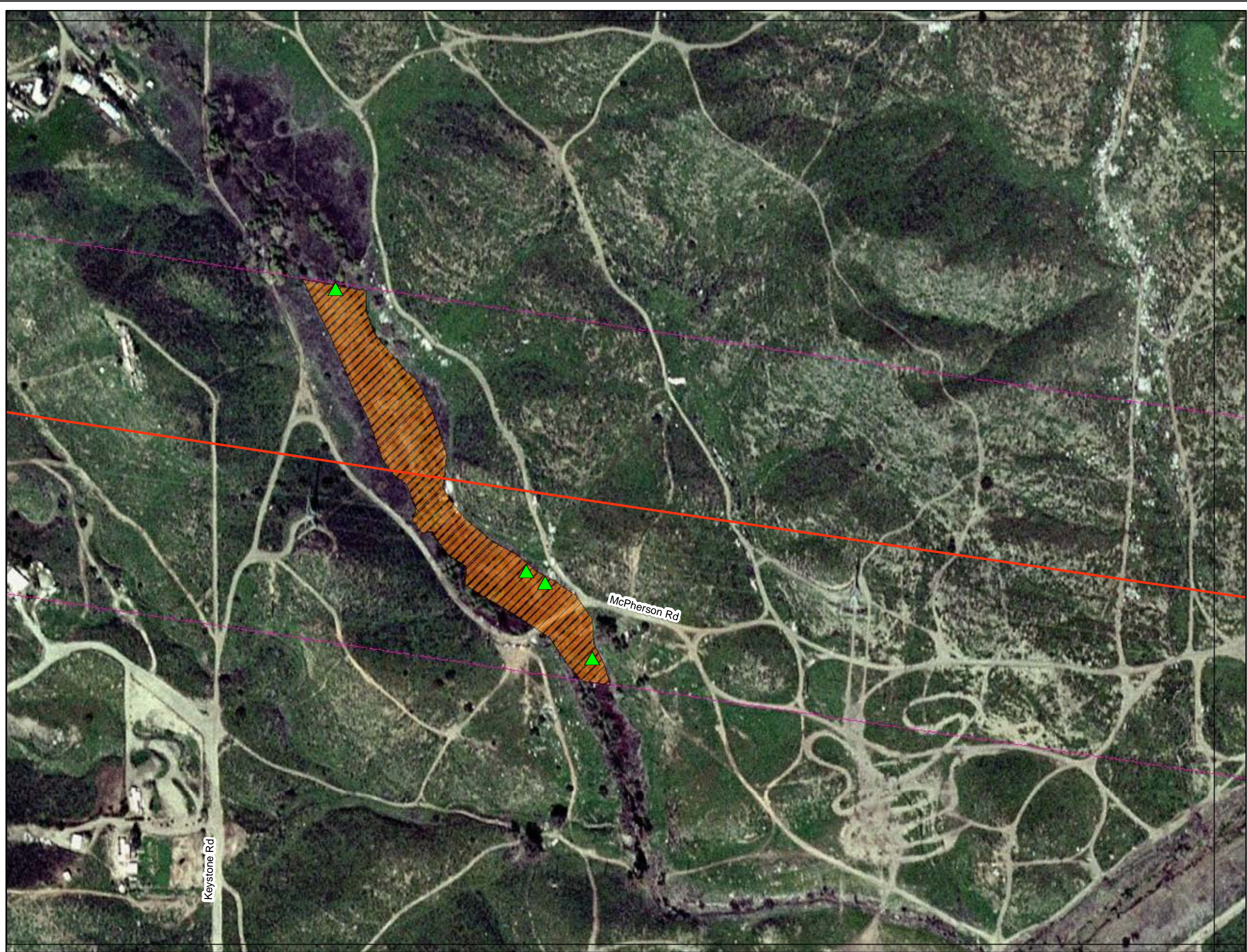
1 inch = 263 feet



Survey Area 3



Map 2B

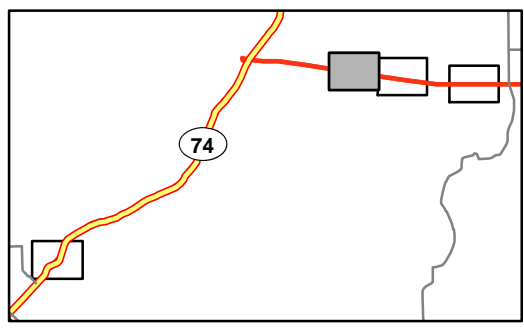
Valley - Ivyglen Transmission Line Project





Legend

-  500-ft Buffer
-  Survey Areas

- Transmission Line Segment**
-  E-1
 -  Least Bell's Vireo

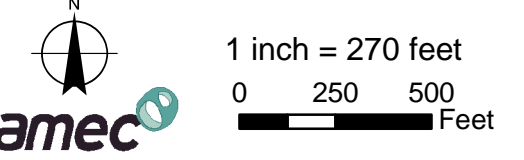


- Base Data**
-  Map Index
 -  Proposed Route

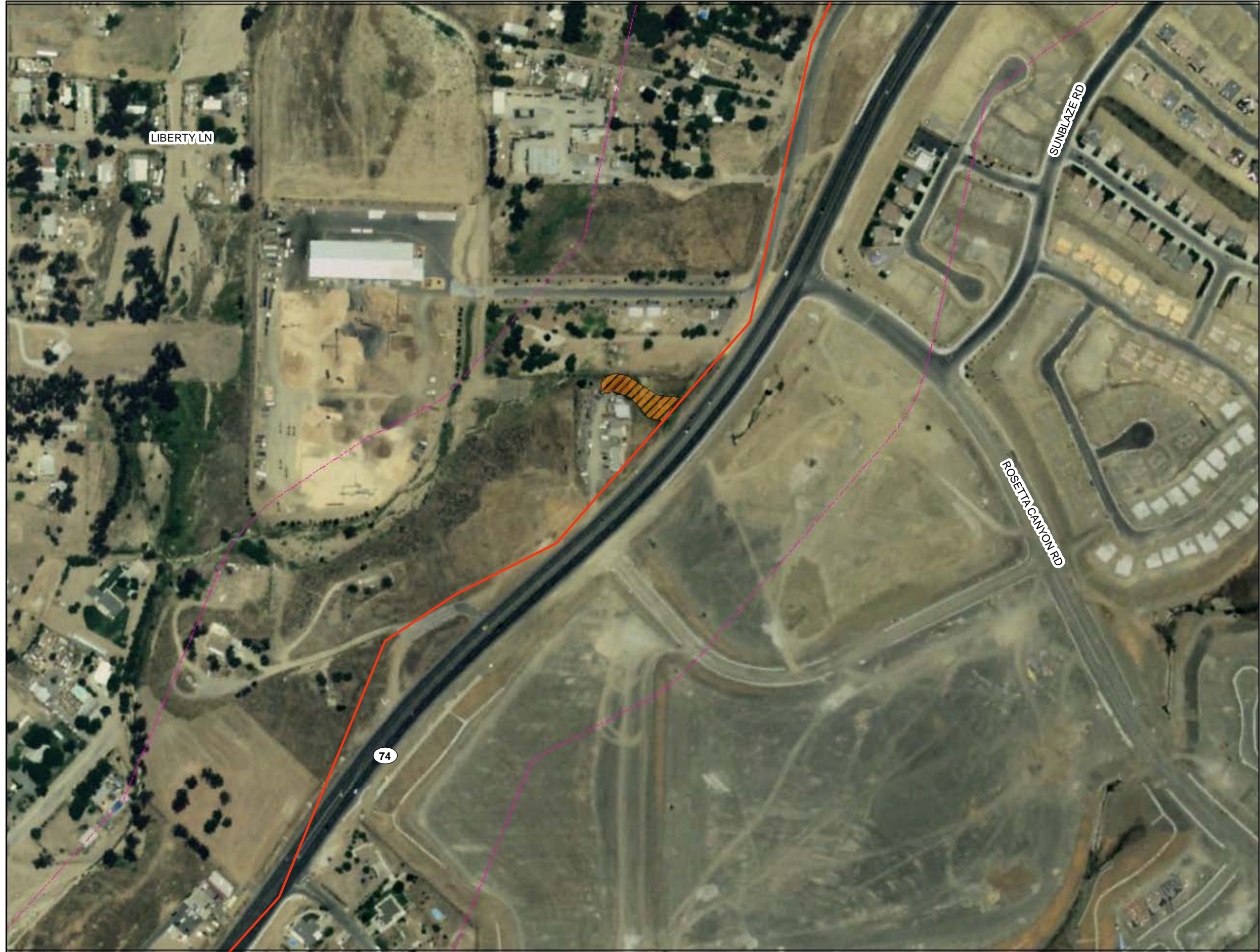
Location Map






Map Notes-
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 Source: S:\active projects\SCE Projects\Ivyglen.Fogerty Substation 6151000801(San Diego)\BUOW 2009\maps
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 Data: 9/22/09

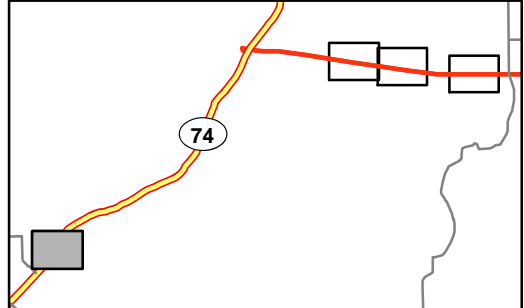


Survey Area 4
Map 2C
 Valley - Ivyglen Transmission Line Project





Legend


-  500-ft Buffer
-  Survey Areas
- Transmission Line Segment
 -  C-1



Base Data

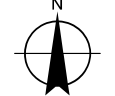
-  Map Index
-  Proposed Route

Location Map





Map Notes-

Projection: NAD 83 zone11
 Source: S:\active projects\SCE Projects\Ivyglen.Fogerty Substation 6151000801(San Diego)\BUOW 2009\maps
 Resources: SCE Ivyglen_routes_updated_8_20_09
 Data: 9/22/09

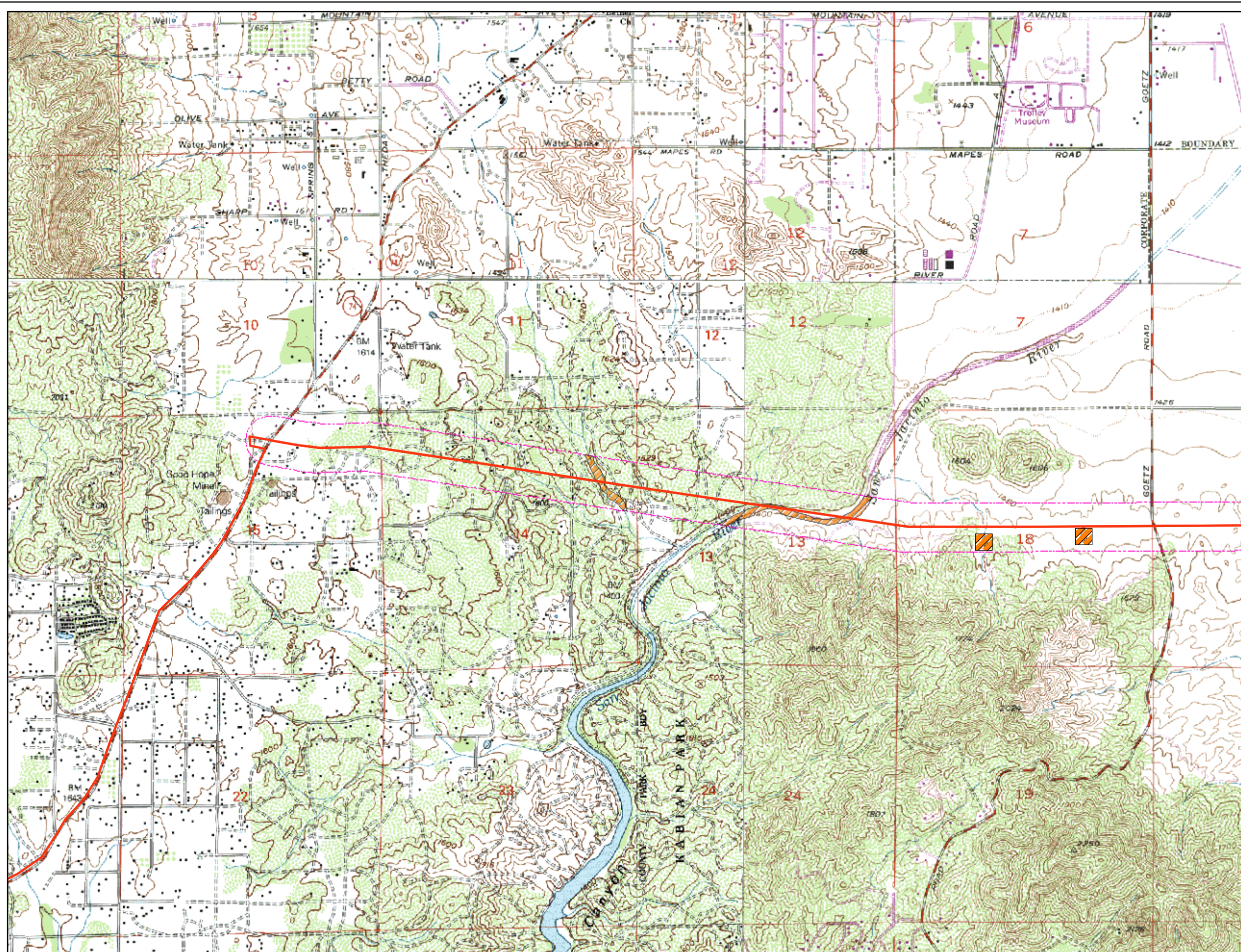


1 inch = 269 feet






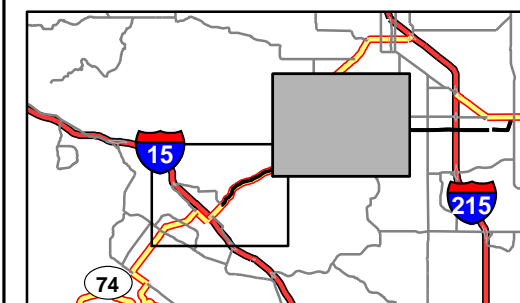
Survey Area 5
Map 2D
 Valley - Ivyglen Transmission Line Project





Legend

-  500-ft Buffer
-  Survey Areas

Transmission Line Segment
 C-1 & E-1



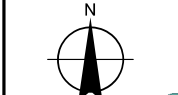
Base Data

-  Map Index
-  Proposed Route

Location Map



Map Notes-
 Projection: NAD 83 zone11
 Source: S:\active projects\SCE Projects\
 Ivyglen.Fogerty Substation 6151000801(San Diego)\
 BUOW 2009 maps
 Resources: SCE Ivyglen_routes_updated_8_20_09
 USGS-topo 7.5' Lake Elsinore, Perris, Steel Peak,
 Romoland
 Data: 9/22/09



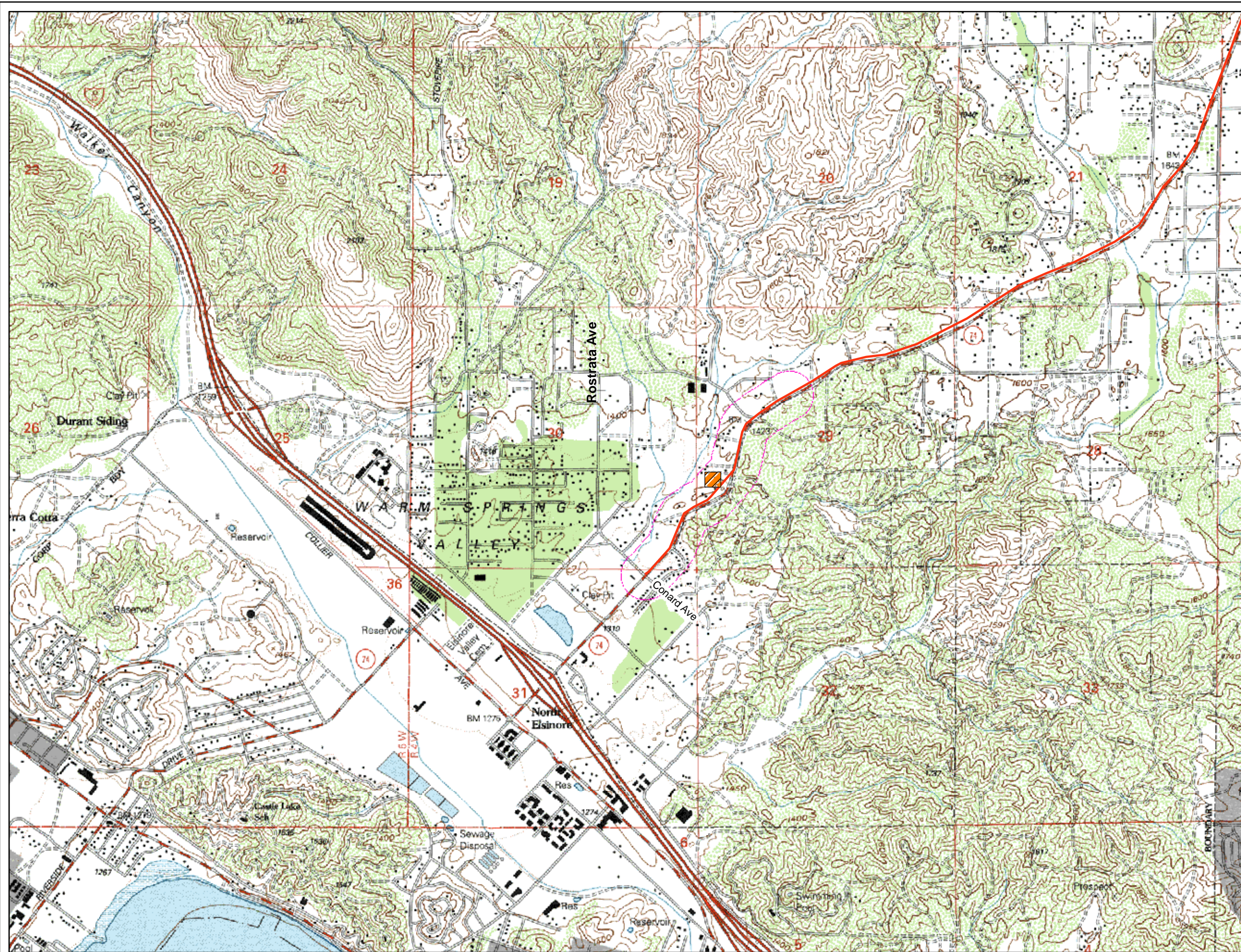
1 inch = 1,960 feet
 0 250 500
 Feet






Survey Areas 1-4

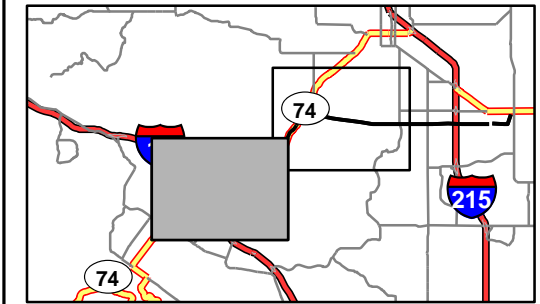
Map 3 A

Valley - Ivyglen Transmission Line Project





Legend

-  500-ft Buffer
-  Survey Areas
- Transmission Line Segment
-  C-1



Base Data

-  Map Index
-  Proposed Route

Location Map



Map Notes-
 Projection: NAD 83 zone11
 Source: S:\active projects\SCE Projects\
 Ivyglen.Fogerty Substation 6151000801(San Diego)\
 BUOW 2009 maps
 Resources: SCE Ivyglen_routes_updated_8_20_09
 USGS-topo 7.5' Lake Elsinore, Perris, Steel Peak,
 Romoland
 Data: 9/22/09



1 inch = 1,949 feet



Survey Area 5

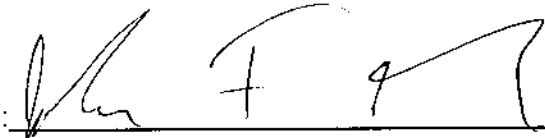
Map 3 B

Valley - Ivyglen Transmission Line Project


**APPENDIX 4
CERTIFICATION**

**CERTIFICATION STATEMENT FOR THE
UNITED STATES FISH AND WILDLIFE SERVICE**

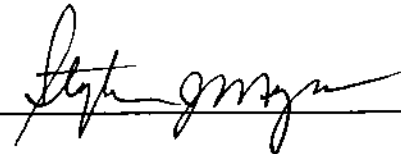
We certify that the information in the survey report and attached exhibits fully and accurately represents our work.

Signed: 

Date: 25 Sept. 2009

Signed: 

Date: Sept 25, 2009

Signed: 

Date: 28 Sept 2009