VALLEY- IVYGLEN SUBTRANSMISSION LINE PROJECT
2011 FOCUSED SURVEYS FOR LEAST BELL'S VIREO, SOUTHWESTERN WILLOW FLYCATCHER, AND WESTERN YELLOW-BILLED CUCKOO

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1.0 INTRODUCTION

This report presents the findings of focused surveys for the Least Bell's Vireo (*Vireo belli pusillus*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Western Yellow-billed Cuckoo (*Coccyxz americana occidentalis*) at suitable habitat patches along Phase II and portions of Phase I of the Valley-Ivyglen Subtransmission Line (VIG) Project (see Map 1).

1.1 Project Description

The proposed VIG Project 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 within an existing right-of-way (ROW) where available, and within new ROWs where none have been established. 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.

The VIG Project will be processed and built in two phases (Figure 1). Phase I is approximately 12 miles long and is proposed for construction in late 2011. Phase II (approximately 13 miles) is still in the planning phase and will not be constructed for several years. The findings presented in this report are associated with Phase II only. The portions of the Phase II ROW that support suitable habitat for the sensitive riparian bird species traverse portions of the *Lake Elsinore, California*, *Alberhill, California*, and *Lake Mathews, California* United States Geological Survey (USGS) 7.5-minute series topographic quadrangles. Portions of this alignment were also surveyed for sensitive riparian birds in 2007 and 2010 (AMEC 2007; AMEC 2010).

The Project is located within the Western Riverside County Multiple Species Conservation Plan (MSHCP or Plan) area. The MSHCP is a comprehensive, multi-jurisdictional plan focusing on the conservation of species and their associated habitats in western Riverside County. SCE will be acquiring Project coverage under the MSHCP as a Participating Special Entity (PSE) with the Regional Conservation Authority (RCA) providing the MSHCP consistency review. The surveys presented in this report were performed to satisfy requirements of the MSHCP (Riverside County 2003).

1.2 Species Information

1.2.1 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 (see title page photo - Hostettler Road survey area [16 May 2011]) and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous, diagnostic, and frequently given 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 primarily to a limited number of locations in southern California. Habitat reduction has contributed to the 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). Populations are 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). A final determination of critical habitat was made in 1994 (USFWS 1994).

1.2.2 Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWF) is a small, brownish 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). The large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s and the loss of willow riparian habitat, has caused the bird to be on the verge of extirpation in 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).

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 San Timoteo Creek in western Riverside County (R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, San Bernardino County Museum, 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 structure of occupied sites varies 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.* 2010).

1.2.3 Western Yellow-billed Cuckoo

The Western Yellow-billed Cuckoo (WYBC) is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987. Most of California's Yellow-billed Cuckoos are found in two areas: along the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). Western Yellow-billed Cuckoo was listed as Endangered by the State of California in 1988.

Western Yellow-billed Cuckoos are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of Western Yellow-billed Cuckoos is difficult, as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

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2.0 METHODS

All of the survey areas (below) were surveyed for LBV and SWF. The habitat structure and/or extent at some of the sites are not suitable for nesting WYBCs. Surveys for the WYBC were conducted at Baker Street, Nichols Road, Lake Street, and Hostettler Road, the only sites with suitable habitat.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed at least eight times by AMEC Earth and Environment and Infrastructure (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart between 10 April and 31 July. The SWF protocol requires five surveys, and that the first survey be performed from 15 May to 31 May, the next two surveys from 1 June to 24 June, and the final two surveys between 25 June and 17 July (Sogge et al. 2010). 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 target species. During the SWF surveys, recordings of their vocalizations were broadcast every 20-30 meters, as required by protocol. During WYBC surveys, territorial calls ("Kowlp" calls) were broadcast every 100 meters, with the calls being repeated 5 times at one minute intervals. 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). Tables 1A through 1E summarize the surveys, and Maps 2a through 2k and 3a through 3c, show the survey areas.

2.1 Survey Areas

Areas considered to contain suitable habitat along the western portion of the proposed project route are:

- **Baker Street Survey Area**: Temescal Wash, near Riverside Drive and Baker Street approximate UTM at south end of survey area: Zone 11, 468250E, 3727250N (WGS84); approximate UTM at north end of survey area: Zone 11, 467100E, 3728700N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle (see Maps 2c,2d, and 3b).
    - This area contains well developed riparian forest, woodland, and scrub dominated by willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and occasional Fremont Cottonwoods (*Populus fremontii*). Open ponds are also present, and are surrounded by freshwater marsh. One pond along Baker Street is completely covered with Water Hyacinth (*Eichhornia crassipes*). Temescal Wash in this area contained surface water during the entire survey season.

- **Nichols Road Survey Area**: Temescal Wash, near Nichols Road approximate UTM oat south end of survey area: Zone 11, 467600E, 3728400N (WGS84); approximate UTM at north end of survey area: 466500E, 3729700N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle (see Maps 2c, 2d, and 3b).
    - The habitat in this survey area is a continuation of that of Baker Street. Proceeding north along Temescal Wash, the habitat becomes somewhat more fragmented, and there is a larger proportion of low, scrubby, willow habitat. Stringers of willow scrub and woodland are separated from one another in this area by large stands of freshwater marsh; a few open ponds are also present. The stream in Temescal Wash flowed throughout this reach during the entire survey season.
- **Lake Street Survey Area**: Temescal Wash, near Lake Street approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Elsinore, Calif.* quadrangles respectively (see Maps 2e, 2f and 3b).
    - Temescal Wash in the area of Lake Street is lined with a mixture of native and nonnative vegetation. Gum trees (*Eucalyptus* spp.) are dominant, with intermittent thickets of willows and scattered Fremont Cottonwoods. Surface water was perennial in portions of this area, but intermittent in others. In 2011, the survey area of 2010 was enlarged by the addition of habitat east of Lake Street (Maps 2e and 3b), while disjunct habitat patches ("outliers") surveyed in the Lake Street Survey Area in 2010 were surveyed in the newly established Outliers Survey Area in 2011.
- **Hostettler Road Survey Area**: Temescal Wash, near Hostettler Road, approximate UTM at east end of survey area: Zone 11, 462750E, 3732300N (WGS84); approximate UTM at west end of survey area: Zone 11, 461300E, 3732800N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Maps 2g and 3b).
    - This area is along Temescal Wash, and is downstream and nearly contiguous with the Lake Street area. Some *Eucalyptus* occurs, but most of the vegetation is native willows, cottonwoods, and Coast Live Oaks (*Quercus agrifolia*). The creek was flowing throughout the survey period. In 2011, disjunct habitat patches ("outliers") surveyed in the Hostettler Road Survey Area in 2010 were surveyed in the newly established Outliers Survey Area in 2011.

In 2011, ten (10) disjunct habitat patches, comprising one survey day, were named "Outliers Survey Areas;" some of these areas were surveyed as part of Hostettler Road Survey Area and Lake Street Survey Areas in 2010. Small habitat patches along Highway 74 were added to the survey effort in 2011 (see Maps 2a, 2b, and 3a).

Peach Street Outlier consists of two habitat patches bissected by Highway 74: approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2a and 3a).

The two habitat patches consist of tall (up to 40 feet) as well as shrubby willows (*Salix laviegata, S. gooddingii*), and a few *Eucalyptus*.

Wasson Canyon Outlier consists of two habitat patches bissected by Highway 74: approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2a and 3a).

The riparian patch north of the highway contains willows, a few Fremont Cottonwoods and a good understory. To the north are tall eucalyptus. South of the highway, the habitat contains willows, Peruvian Peppers (*Shinus molle*) and several *Eucalyptus*.

Rosetta Outlier is a habitat patch southeast of Highway 74): approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2b and 3a).

Riparian habitat consists of shrubby willows and a few large *Eucalyptus*.

Indian Truck Trail Outlier is a habitat patch southeast of Interstate 15 (Map 2i): approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. Quadrangle (see Maps 2i and 3c).

Riparian habitat at the end of the I-15 freeway off-ramp consists of willows and Fremont Cottonwoods, and a small Coast Live Oak.

De Palma Outlier is a small riparian patch south of De Palma Road, approximately 0.3 mile south of Corona Lake; approximate UTM near the center of survey area: Zone 11, 459200E, 3733600N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Maps 2h and 3c).

This small patch of riparian scrub (willows and Mulefat) is adjacent to extensive oak woodlands, which lie to the southwest. No surface water or saturation was visible at this site.

Old Road Outliers are riparian patches east and west of Temescal Canyon Road, approximately 0.3 mile northwest of Corona Lakes; approximate UTM near the center of the survey area: Zone 11, 457900E, 3735000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle(see Maps 2j and 3c).

At this site, an old strip of former asphalt roadway is lined with scattered willows, cottonwoods, and Mulefat. No surface water is present. Sometime during June of 2010, bulldozing of adjacent uplands removed some of the scrubby willows and Mulefat.

El Hermano Outlier is a riparian patch southwest of Temescal Canyon Road, approximately 0.2 mile southwest of El Hermano Road: approximate UTM of survey area: Zone 11, 457250E, 37355000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2j and 3c)**.**

A small patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season. A grove of large gum trees is adjacent to the east of the riparian scrub.

Temescal Wash Outlier is approximately 0.3 mile northwest of El Hermano Road and northeast of Temescal Canyon Road): approximate UTM of survey area: Zone 11, 456950E, 3735980N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2k and 3c)

This survey area consisted of a short reach of Temescal Wash. The vegetation consists of a relatively narrow strip of willow woodland and scrub. The stream flowed throughout the survey season.

The Yard Outlier is a small riparian patch southwest of Temescal Canyon Road, approximately 0.25 mile west of El Hermano Road: approximate UTM of survey area: Zone 11, 457700E, 3735120N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2j and 3c).

A patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season.

The Basin Outlier riparian patch is in a detention basin southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road: approximate UTM at center of survey area: Zone 11, 456100E, 3735680N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2k and 3c).

This patch of approximately one acre of scrubby willow, Mulefat, and Salt-Cedar (*Tamarix ramosissima*) is within a detention basin. The Salt-Cedar occurs primarily around the perimeter of the basin, with dense willow scrub occurring in the center of the basin. No surface water or saturation was visible during the surveys.

Table 1A.
LBV/SWF/WYBC Surveys: "Baker Street Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
10 April	Chet McGaugh	LBV	0645-1005	35-55	0	0
20 April	Chet McGaugh	LBV	0645-1005	58-59	0	0
2 May	Chet McGaugh	LBV	0635-0940	47-75	0	0
12 May	John F. Green	LBV	0715-1015	57-74	0-3	0
24 May	Stephen J. Myers	LBV, SWF	0630-1050	53-67	0	20
7 June	John F. Green	LBV, SWF	0650-1105	62-83	0-5	0-20
20 June	Chet. McGaugh	LBV, SWF, WYBC	0645-1010	70-85	0	0
30 June	Chet McGaugh	LBV, SWF	0630-1030	59-83	0	100-0
12 July	Chet McGaugh	SWF, WYBC	0620-1000	63-74	0	100-0
27 July	Chet McGaugh	WYBC	0625-1000	65-80	0	0
10 August	John F. Green	WYBC	0725-1040	61-80	0-1	100-0

Table 1B.
LBV/SWF/WYBC Surveys: "Nichols Road Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
11 April	Chet McGaugh	LBV	0655-1140	44-68	0	70-95
21 April	Chet McGaugh	LBV	0650-1040	56-65	0-2	100
5 May	John F. Green	LBV	0650-1110	57-76	0-3	0
21 May	Chet McGaugh	LBV, SWF	0725-1010	60-74	0	100-85
6 June	Stephen J. Myers	LBV, SWF	0635-1100	48-72	0	20-80
16 June	Stephen J. Myers	LBV, SWF, WYBC	0620-1055	59-76	0	100-20
30 June	Stephen J. Myers	LBV, SWF	0640-1020	59-78	0	0
11 July	John F. Green	LBV, SWF, WYBC	0610-0950	64-73	0-2	100-haze
26 July	Stephen J. Myers	WYBC	0700-1010	66-88	0	0
10 August	Chet McGaugh	WYBC	0650-0945	61-76	0	100-0

Table 1C.
LBV/SWF/WYBC Surveys: "Lake Street Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
14 April	Chet McGaugh	LBV	0700-1005	45-64	0	0
2 May	John F. Green	LBV	0650-1015	49-83	0-5	0
13 May	Chet McGaugh	LBV	0630-1010	54-76	0	0
25 May	Chet McGaugh	LBV, SWF	0635-0950	58-74	0	0
7 June	Chet McGaugh	LBV, SWF	0650-0945	58-60	0-3	0
21 June	Chet McGaugh	LBV, SWF	0645-1050	72-85	0	0
1 July	Chet McGaugh	LBV, SWF, YBCU	0650-1030	64-89	0	0
12 July	Stephen J. Myers	LBV, SWF, YBCU	0635-1020	64-76	0-2	100-0
26 July	John F. Green	YBCU	0625-0930	69-82	0	haze
9 August	Chet McGaugh	YBCU	0700-1020	65-78	0	100-0

Table 1D.
LBV/SWF/WYBC Surveys: "Hostettler Road Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
15 April	John F. Green	LBV	0745-1000	56-69	0-2	10-0
3 May	Chet McGaugh	LBV	0630-0950	54-78	0	0
16 May	Chet McGaugh	LBV, SWF	0635-1000	52-61	0	40
2 June	Stephen J. Myers	LBV, SWF	0740-1040	59-73	0-3	0
13 June	Stephen J. Myers	LBV, SWF	0710-1055	59-74	0-2	100-0
29 June	Stephen J. Myers	LBV, SWF, WYBC	0655-1030	62-76	0-5	100-0
11 July	Stephen J. Myers	LBV, SWF, WYBC	0720-1030	64-77	0	0
25 July	C. McGaugh	LBV, WYBC	0625-0930	69-82	0	haze
8 August	C. McGaugh	WYBC	0605-0940	62-82	0	0

Table 1E.
LBV/SWF/WYBC Surveys: "Outliers Survey Areas"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
13 April	John F. Green	LBV	0700-1000	60	0-2	15-80
6 May	Chet McGaugh	LBV	0655-1055	57-81	0	0
17 May	Chet McGaugh	(LBV, SWF)	0625-0900	--	--	Rain*
24 May	Chet McGaugh	LBV, SWF	0620-1045	46-71	0	0
6 June	Chet McGaugh	LBV, SWF	0615-1010	55-70	0	10-20
17 June	Chet McGaugh	LBV, SWF	0630-1130	62-75	0	100
28 June	Chet McGaugh	LBV, SWF	0645-1115	63-88	0-3	0
14 July	Chet McGaugh	LBV, SWF	0625-1000	65-70	0	100, drizzle
20 July	John F. Green	LBV	0635-0900	64-81	1-2	0

* survey postponed

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3.0 RESULTS

3.1 Critical Habitat

The project area is not within designated Critical Habitat for either the Least Bell's Vireo or Southwestern Willow Flycatcher.

3.2 Survey Results

One hundred and twenty (120) bird species were detected during the 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 (*Setophagapetechia*), 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 7 June, a single, vocal Willow Flycatcher was in the Lake Street survey area. This date is within the normal period of fall migration of the species in southern California, and the bird was not found on subsequent spring surveys. Therefore, AMEC concludes that this bird was a migrant of a more northerly subspecies, and not a Southwestern Willow Flycatcher (subspecies *E.t. extimus*).
The USFWS requires that "Willow Flycatcher Survey and Detection Forms" be completed; these forms are included as Appendix B.

3.2.2 Least Bell's Vireo

Least Bell's Vireos were detected more or less continuously from the "Baker Street" survey area to the "Hostettler Road" survey area (see Maps 2c through 2g and 3b). The precise number of territories throughout this reach is not possible to ascertain within the constraints of presence/absence survey protocols, but an estimate of 10 - 15 territories, based on mapped occurrences, seems reasonable. Least Bell's Vireos were not detected at any of the Outliers survey areas.

3.2.3 Western Yellow-billed Cuckoo

No Western Yellow-billed Cuckoos were detected at any of the survey areas. These results are consistent with AMEC's previous surveys in 2007 and 2010**.** Appendix C contains Yellow-billed Cuckoo Survey Data Forms.

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4.0 LITERATURE CITED AND REFERENCES

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.

AMEC. 2010. Valley-Ivyglen Subtransmission Line Project 2010 Focused Surveys for the Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed. 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.

Layman, S. A. 1998. Yellow-billed Cuckoo (*Coccycus a. occidentalis*). *In* The Riparian Bird Conservation Plan: a strategy for reversing the decline of riparian-associated birds in California. California Partners in Flight. http://prbo.org/calpif/htmldocs/riparian_v-2.html.

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., D. Ahlers, and S.J. Sferra. 2010. A natural history summary and survey protocol for the Southwestern Willow Flycatcher. U.S. Geological Survey Techniques and Methods 2A-10, 38 pgs.

United States Fish and Wildlife Service. 1994. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Least Bell's Vireo; Final Rule. Federal Register 59:4845-4867.

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 A

BIRD SPECIES LIST

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Appendix A
Bird Species List

This list reports only bird species or their sign which were observed along the project alignment during 2011l 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:

* 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	AVES
Swans, Geese, and Ducks	**Anatidae**
Wood Duck	*Aix sponsa*
Gadwall	*Anas strepera*
Mallard	*Anas platyrhynchos*
Blue-winged Teal	*Anas discor*
Cinnamon Teal	*Anas cyanoptera*
*Redhead	*Aythya americana*
Ruddy Duck	*Oxyura jamaicensis*
New World Quail	**Odontophoridae**
California Quail	*Callipepla californica*
Grebes	**Podicipedidae**
Pied-billed Grebe	*Podilymbus podiceps*
Phalacrocoradidae	**Darters**
*Double-crested Cormorant	*Phalacrocorax auritus*
Pelecanidae	**Pelicans**
American White Pelican	*Pelecanus erythrorhynchos*
Bitterns and Herons	**Ardeidae**
American Bittern	*Botaurus lentiginosus*
Great Blue Heron	*Ardea herodias*
Great Egret	*Ardea alba*
Snowy Egret	*Egretta thula*
Cattle Egret	*Bubulcus ibis*
Green Heron	*Butorides virescens*
Black-crowned Night-Heron	*Nycticorax nycticorax*
Threskiornithidae	**Ibises and Spoonbills**
White-faced Ibis	*Plegadis chihi*

New World Vultures	**Cathartidae**
Turkey Vulture	*Cathartes aura*
Hawks, Kites, Eagles	**Accipitridae**
*Northern Harrier?	*Circus cyaneus*
*Cooper's Hawk	*Accipiter cooperii*
Red-shouldered Hawk	*Buteo lineatus*
Swainson's Hawk	*Buteo swainsoni*
Red-tailed Hawk	*Buteo jamaicensis*
Falcons	**Falconidae**
American Kestrel	*Falco sparverius*
Rallidae	**Rails, Gallinules, Coots**
Virginia Rail	*Rallus limicola*
Common Gallinule	*Gallinula galeata*
American Coot	*Fulica americana*
Plovers and Lapwings	**Charadriidae**
Killdeer	*Charadrius vociferus*
Recurvirostridae	**Stilts and Avocets**
Black-necked Stilt	*Himantopus mexicanus*
American Avocet	*Recurvirostra americana*
Sandpipers, Phalaropes, and Allies	**Scolopacidae**
Spotted Sandpiper	*Actitis macularius*
Solitary Sandpiper	*Tringa solitaria*
Greater Yellowlegs	*Tringa melanoleuca*
Western Sandpiper	*Calidris mauri*
Least Sandpiper	*Calidris minutilla*
Long-billed Dowitcher	*Limnodrumus scolopaceus*
Wilson's Snipe	*Gallinago delicata*
Wilson's Phalarope	*Phalaropus tricolor*
Laridae	**Gulls and Terns**
Ring-billed Gull	*Larus delawarensis*
California Gull	*Larus californicusl*
*Caspian Tern	*Hydroprogne caspia*
Pigeons and Doves	**Columbidae**
Rock Pigeon (nonnative)	*Columba livia*
Band-tailed Pigeon	*Patagioenas fasciata*
Eurasian Collared-Dove (nonnative)	*Streptopelia decaocto*
Mourning Dove	*Zenaida macroura*
Common Ground-Dove	*Columbina passerina*

Cuckoos, Roadrunners, Allies	**Cuculidae**
Greater Roadrunner	*Geococcyx californianus*
Barn Owls	**Tytonidae**
Barn Owl	*Tyto alba*
Typical Owls	**Strigidae**
Great Horned Owl	*Bubo virginianus*
Swifts	**Apodidae**
*Vaux's Swift	*Chaetura vauxi*
White-throated Swift	*Aeronautes saxatalis*
Hummingbirds	**Trochilidae**
Black-chinned Hummingbird	*Archilochus alexandri*
Anna's Hummingbird	*Calypte anna*
Costa's Hummingbird	*Calypte costae*
Allen's Hummingbird	*Selasphorus sasin*
Alcedinidae	**Kingfishers**
Belted Kingfisher	*Ceryle alcyon*
Woodpeckers and Allies	**Picidae**
Acorn Woodpecker	*Melanerpes formicivorus*
Nuttall's Woodpecker	*Picoides nuttallii*
Downy Woodpecker	*Picoides pubescens*
Northern Flicker	*Colaptes auratus*
Flycatchers	**Tyrannidae**
Western Wood-Pewee	*Contopus sordidulus*
*Willow Flycatcher	*Empidonax traillii*
Western (Pacific-slope) Flycatcher	*Empidonax difficilis*
Black Phoebe	*Sayornis nigricans*
Ash-throated Flycatcher	*Myiarchus cinerascens*
Cassin's Kingbird	*Tyrannus vociferus*
Western Kingbird	*Tyrannus verticalis*
Vireos	**Vireonidae**
*Least Bell's Vireo	*Vireo bellii pusillus*
Hutton's Vireo	*Vireo huttoni*
Warbling Vireo	*Vireo gilvus*
Jays, Magpies and Crows	**Corvidae**
Western Scrub-Jay	*Aphelocoma californica*
American Crow	*Corvus brachyrhynchos*
Common Raven	*Corvus corax*

Swallows	**Hirundinidae**
Tree Swallow	*Tachycineta biclor*
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*
Cliff Swallow	*Petrochelidon pyrrhonota*
Barn Swallow	*Hirundo rustica*
Titmice and Chickadees	**Paridae**
Mountain Chickadee	*Poecile gambeli*
Oak Titmouse	*Baeolophus inornatus*
Long-tailed Tits and Bushtits	**Aegithalidae**
Bushtit	*Psaltriparus minimus*
Wrens	**Troglodytidae**
Rock Wren	*Salpinctes obsoletus*
Bewick's Wren	*Thryomanes bewickii*
House Wren	*Troglodytes aedon*
Marsh Wren	*Cistothorus palustris*
Sylviid Warblers	**Sylviidae**
Wrentit	*Chamaea fasciata*
Mockingbirds, Thrashers, and Allies	**Mimidae**
Northern Mockingbird	*Mimus polyglottos*
California Thrasher	*Toxostoma redivivum*
Starlings and Allies	**Sturnidae**
European Starling (nonnative)	*Sturnus vulgaris*
Silky-Flycatchers	**Ptilogonatidae**
Phainopepla	*Phainpepla nitens*
Wood-Warblers	**Parulidae**
Orange-crowned Warbler	*Oreothylpis celata*
Nashville Warbler	*Oreothlypis ruficapilla*
Common Yellowthroat	*Geothlypis trichas*
*Yellow Warbler	*Setophaga petechia*
Yellow-rumped Warbler	*Seophaga coronata*
Black-throated Gray Warbler	*Setophaga nigrescens*
Wilson's Warbler	*Cardellina pusilla*
*Yellow-breasted Chat	*Icteria virens*

Emberizines	**Emberizidae**
Spotted Towhee	*Pipilo maculatus*
*Southern California Rufous-crowned Sparrow	*Aimophila ruficeps canescens*
California Towhee	*Pipilo crissalis*
Lark Sparrow	*Chondestes grammacus*
*Bell's Sage Sparrow	*Amphispiza belli belli*
Savannah Sparrow	*Passerculus sandwichensis*
Song Sparrow	*Melospiza melodia*
Lincoln's Sparrow	*Melospiza lincolnii*
Cardinals and Allies	**Cardinalidae**
Western Tanager	*Piranga ludoviciana*
Black-headed Grosbeak	*Pheucticus melanocephalus*
Blue Grosbeak	*Passerina caerulea*
Lazuli Bunting?	*Passerina amoena*
Blackbirds and Allies	**Icteridae**
Red-winged Blackbird	*Agelaius phoeniceus*
*Tricolored Blackbird	*Agelaius tricolor*
Western Meadowlark	*Sturnella neglecta*
Yellow-headed Blackbird	*Xanthocephalus xanthocephalus*
Brewer's Blackbird	*Euphagus cyanocephalus*
Great-tailed Grackle	*Quiscalus mexicanus*
Brown-headed Cowbird	*Molothrus ater*
Hooded Oriole	*Icterus cucullatus*
Bullock's Oriole	*Icterus bullockii*
Finches and Allies	**Fringillidae**
Purple Finch	*Carpodacus purpureus*
House Finch	*Carpodacus mexicanus*
Lesser Goldfinch	*Spinus psaltria*
*Lawrence's Goldfinch	*Spinus lawrencei*
American Goldfinch	*Spinus tristis*
Old World Sparrows	**Passeridae**
House Sparrow (nonnative)	*Passer domesticus*

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APPENDIX B

SOUTHWESTERN WILLOW FLYCATCHER SURVEY FORMS

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Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE IVY GLEN - "BAKER STREET" State CA County RIVERSIDE
USGS Quad Name LAKE ELSINORE Elevation 385m (meters)
Creek, River, Wetland, or Lake Name TEMESCAL WASH
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? ***Yes*** X ***No*** ____

Survey Coordinates: Start: E 460250 N 3727250 UTM Datum WGS84 (See instructions)
Stop: E 467100 N 3728700 UTM Zone 11S
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.
***** Fill in additional site information on back of this page *****

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary. # Birds / Sex / UTM E / UTM N
Survey # 1 Observer(s) STEPHEN J. MYERS	Date 24 MAY Start 0630 Stop 1050 Total hrs 4:20	0	0	0	N		
Survey # 2 Observer(s) JOHN F. GREEN	Date ~~0650~~ 7 JUNE Start 0650 Stop 1105 Total hrs 4:15	0	0	0	N		
Survey # 3 Observer(s) CHET MCGAUGH	Date 20 JUNE Start 0645 Stop 1010 Total hrs 3:25	0	0	0	N		
Survey # 4 Observer(s) CHET MCGAUGH	Date 30 JUNE Start 0630 Stop 1030 Total hrs 4:00	0	0	0	N		
Survey # 5 Observer(s) CHET MCGAUGH	Date 12 JULY Start 0620 Stop 1000 Total hrs 3:40	0	0	0	N		
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 19:50	Total Adult Residents: 0	Total Pairs: 0	Total Territories: 0	Total Nests: 0	Were any Willow Flycatchers color-banded? Yes___ No ___ If yes, report color combination(s) in the comments section on back of form and report to USFWS.		

Reporting Individual CHET MCGAUGH Date Report Completed _____
US Fish and Wildlife Service Permit # _____ State Wildlife Agency Permit # _____

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual CHET MCGAUGH Phone # 951 369-8060
Affiliation AMEC EARTH + ENVIRONMENTAL E-mail chetmcgaugh@amec.com
Site Name SCE IVYGLEN "BAKER STREET" Date Report Completed _____
Was this site surveyed in a previous year? Yes X No ___ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes X No ___ Not Applicable ___
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes X No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes X No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County X State ___ Tribal ___ Private X
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: ~1.2 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

___ Native broadleaf plants (entirely or almost entirely, > 90% native)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
SALIX LAEVIGATA, SALIX GOODINGII, POPULUS FREMONTII

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE IVANGLEN "NICHOLS ROAD" State CA County RIVERSIDE
USGS Quad Name LAKE ELSINORE Elevation 385 (meters)
Creek, River, Wetland, or Lake Name TEMESCAL WASH
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? ***Yes___*** ***No____***

Survey Coordinates: Start: E 467600 N 3728400 UTM Datum WGS 84 (See instructions)
Stop: E 466500 N 3729700 UTM Zone 11S
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) CHET MCGAUGH	Date 21 MAY Start 0725 Stop 1010 Total hrs 2:45	0	0	0	N					
Survey # 2 Observer(s) STEPHEN J. MYERS	Date 6 JUNE Start 0635 Stop 1100 Total hrs 4:25	0	0	0	N					
Survey # 3 Observer(s) STEPHEN J. MYERS	Date 16 JUNE Start 0620 Stop 1055 Total hrs 4:35	0	0	0	N					
Survey # 4 Observer(s) STEPHEN J. MYERS	Date 30 JUNE Start 0640 Stop 1020 Total hrs 3:40	0	0	0	N					
Survey # 5 Observer(s) JOHN F. GREEN	Date 11 JUL Start 0610 Stop 0950 Total hrs 3:20	0	0	0	N					

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 18:45	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes___ No ___ If yes, report color combination(s) in the comments section on back of form and report to USFWS.
	0	0	0	0	

Reporting Individual CHET MCGAUGH Date Report Completed _____
US Fish and Wildlife Service Permit #_____ State Wildlife Agency Permit #_____

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual CHET MCGAUGH Phone # 951-369-8060
Affiliation AMEC EARTH & ENVIRONMENTAL E-mail chetmcgaugh@amec.com
Site Name SCE IVY GLEN "NICHOLS ROAD" Date Report Completed _____
Was this site surveyed in a previous year? Yes X No ___ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes X No _____ Not Applicable ___
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes X No ____ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes X No ____ If no, summarize below.

Management Authority for Survey Area: Federal____ Municipal/County X State ____ Tribal ____ Private X
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 1.69 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
SALIX LAVIEGATA, SALIX EXIGUA, SALIX GOODINGII, POPULUS FREMONTII

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Lake Street) State CA County Riverside
USGS Quad Name Lake Elsinore, Alberhill Elevation 365 (meters)
Creek, River, Wetland, or Lake Name Temescal Wash
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No ___

2 patches → Survey Coordinates: Start: E 463990 E (Start 467760 E) N 3732040 N (3732280 N) UTM Datum WGS 84 (See instructions)
Stop: E 464420 E (Stop 463730 E) N 3730670 N UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) CHET McGAUGH	Date 25 MAY Start 0635 Stop 0950 Total hrs 3:15	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) CHET McGAUGH	Date 7 June Start 0650 Stop 0945 Total hrs 2:55	1	0	0	N	DETERMINED TO BE A LATE MIGRANT (NOT EXTIRPATED) BASED ON SUBSEQUENT SURVEYS	# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) CHET McGAUGH	Date 21 June Start 0650 Stop 0945 Total hrs 4:05	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) CHET McGAUGH	Date 1 JULY Start 0650 Stop 1050 Total hrs 3:40	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) STEPHEN J. Myers	Date 12 July Start 0635 Stop 1020 Total hrs 3:45	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 18:10	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed ___
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951

***Submit* form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.**

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Lake Street) Date Report Completed _____
Was this site surveyed in a previous year? Yes ✓ No ___ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ✓ No ___ Not Applicable ___
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ✓ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.
Added a narrow strip of habitat SE of Alberhill
Management Authority for Survey Area: Federal___ Municipal/County ✓ State ___ Tribal ___ Private ✓
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: _____ (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

___ Native broadleaf plants (entirely or almost entirely, > 90% native)

✓ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix gooddingii, Salix laevigata, Eucalyptus spp.

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE IVYGLEN "HOSTETTLER ROAD" State CA County RIVERSIDE
USGS Quad Name ALBERHILL Elevation 365 (meters)
Creek, River, Wetland, or Lake Name TEMESCAL WASH

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

Survey Coordinates: Start: E 462750 N 3732300 UTM Datum WGS84 (See instructions)
Stop: E 461300 N 3732800 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary. # Birds / Sex / UTM E / UTM N
Survey # 1 Observer(s) CHET MCGAUGH	Date 28 MAY 2011 Start 0705 Stop 1045 Total hrs 3:40	0	0	0	N		
Survey # 2 Observer(s) STEPHEN J. MYERS	Date 2 JUNE Start 0645 Stop 1100 Total hrs 4:15	0	0	0	N		
Survey # 3 Observer(s) STEPHEN J. MYERS	Date 11 JUNE Start 0655 Stop 1000 Total hrs 3:05	0	0	0	N		
Survey # 4 Observer(s) STEPHEN J. MYERS	Date 2 JULY Start 0645 Stop 1030 Total hrs 3:45	0	0	0	N		
Survey # 5 Observer(s) STEPHEN J. MYERS	Date 12 JULY Start 0645 Stop 1035 Total hrs 3:50	0	0	0	N		

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 18:35	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes ___ No X

If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual CHET MCGAUGH Date Report Completed _____

US Fish and Wildlife Service Permit # _____ State Wildlife Agency Permit # _____

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual CHET MCGAUGH Phone # 951 360-8060
Affiliation AMEC EARTH + ENVIRONMENTAL E-mail chet.mcgaugh@amec.com
Site Name SCE UVGLEN "HOSTETTLER ROAD" Date Report Completed _____
Was this site surveyed in a previous year? Yes X No ___ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes X No _____ Not Applicable ___
If site name is different, what name(s) was used in the past?_____
If site was surveyed last year, did you survey the same general area this year? Yes X No ____ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes X No ____ If no, summarize below.

Management Authority for Survey Area: Federal____ Municipal/County X State ____ Tribal ____ Private X
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: .9 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
SALIX LAVIEGATA, SALIX GOODINGII, SALIX LASIOLEPIS

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Peach St. Outliers) State CA County Riverside
USGS Quad Name Lake Elsinore Elevation 500 (meters)
Creek, River, Wetland, or Lake Name Unnamed creek
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No

Survey Coordinates: Start: E 472500 N 3731170 UTM Datum WGS 84 (See instructions)
Stop: E 472460 N 3730890 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.33	0	0	0	N					
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.33	0	0	0	N					
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.33	0	0	0	N					
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.33	0	0	0	N					
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.33	0	0	0	N					

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 1.65	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-001951

***Submit* form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.**

*Fill in the following information completely. **Submit** form by September 1st. Retain a copy for your records.*

Reporting Individual Stephen J. Myers Phone # 951-369-8060, ext. 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Peach St. Outliers) Date Report Completed _____
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ____
Did you verify that this site name is consistent with that used in previous years? Yes ____ No _____ Not Applicable ✓
If site name is different, what name(s) was used in the past?_____
If site was surveyed last year, did you survey the same general area this year? Yes ____ No ____ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ____ If no, summarize below.

Management Authority for Survey Area: Federal____ Municipal/County ____ State ____ Tribal ____ Private ✓?
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.18 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Populus fremontii

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Wasson Cyn Outliers) State CA County Riverside
USGS Quad Name Lake Elsinore Elevation 495 (meters)
Creek, River, Wetland, or Lake Name Unnamed creek
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No ___

Survey Coordinates: Start: E 472270 N 3730990 UTM Datum WGS 84 (See instructions)
Stop: E 472330 N 3730670 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary

Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings.

Be careful not to double count individuals.

Total Survey Hrs 2.5

Total Adult Residents	Total Pairs	Total Territories	Total Nests
0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___

If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-001951

***Submit* form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.**

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951 - 369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Wasson Canyon Outlier) Date Report Completed 10/31/11
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past?___
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County ___ State ___ Tribal ___ Private ✓?
Name of Management Entity or Owner (e.g., Tonto National Forest) ___

Length of area surveyed: 0.32 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Populus fremontii

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Rosetta Outliers) State CA County Riverside
USGS Quad Name Lake Elsinore Elevation 425 (meters)
Creek, River, Wetland, or Lake Name
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No

Survey Coordinates: Start: E 469780 N 3729300 UTM Datum WGS 84 (See instructions)
Stop: E 469930 N 3729350 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 7 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 1.25	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___

If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-001951

***Submit* form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.**

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Rosetta Outliers) Date Report Completed _____
Was this site surveyed in a previous year? Yes ___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal ___ Municipal/County ___ State ___ Tribal ___ Private ✓?
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.18 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp.

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (De Palma Rd Outlier) State CA County Riverside
USGS Quad Name Alberhill Elevation 370 (meters)
Creek, River, Wetland, or Lake Name Unnamed stream
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? *Yes*✓ *No*___

Survey Coordinates: Start: E 459180 N 3733660 UTM Datum WGS84 (See instructions)
Stop: E 459140 N 3733530 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.
*** Fill in additional site information on back of this page ****

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.5	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary	Total Adult Residents	Total Pairs	Total Territories	Total Nests
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 2.5	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley - Ivyglen Project (De Palma Road Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ____
Did you verify that this site name is consistent with that used in previous years? Yes ____ No _____ Not Applicable ✓
If site name is different, what name(s) was used in the past?_____
If site was surveyed last year, did you survey the same general area this year? Yes ____ No ____ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ____ If no, summarize below.

Management Authority for Survey Area: Federal____ Municipal/County ____ State ____ Tribal ____ Private ✓
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.13 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Baccharis salicifolia, Quercus agrifolia

Average height of canopy (Do not include a range): 8 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Indian Truck Trail Outlier) State CA County Riverside
USGS Quad Name Alberhill Elevation 350 (meters)
Creek, River, Wetland, or Lake Name
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No

Survey Coordinates: Start: E 458210 N 3734450 UTM Datum WGS 84 (See instructions)
Stop: E 458300 N 3734340 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.2	0	0	0	N		# Birds	Sex	UTM E	UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.2	0	0	0	N		# Birds	Sex	UTM E	UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.2	0	0	0	N		# Birds	Sex	UTM E	UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.2	0	0	0	N		# Birds	Sex	UTM E	UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.2	0	0	0	N		# Birds	Sex	UTM E	UTM N

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 1.0	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes___ No ___ If yes, report color combination(s) in the comments section on back of form and report to USFWS.
	0	0	0	0	

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951

***Submit* form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.**

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Fvyglen Project (Indian Truck Trail Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past?_____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County ___ State ___ Tribal ___ Private ✓
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.10 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Populus fremontii

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Old Road Outliers) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 335 (meters)
Creek, River, Wetland, or Lake Name Temescal Wash (Tributary)
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No ___

Survey Coordinates: Start: E 457880 N 3735120 UTM Datum WGS 84 (See instructions)
Stop: E 457930 N 3734870 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.6	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.6	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.6	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.6	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.6	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 3.0	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951

***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

*Fill in the following information completely. **Submit** form by September 1st. Retain a copy for your records.*

Reporting Individual Stephen J. Myers Phone # 951-369-8060
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Old Road Outliers) Date Report Completed _____
Was this site surveyed in a previous year? Yes ___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County ___ State ___ Tribal ___ Private ___
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.26 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Populus fremontii, Quercus agrifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Yard Outlier) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 325 (meters)
Creek, River, Wetland, or Lake Name Unnamed tributary to Temescal Wash
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? *Yes* ✓ *No* ___

Survey Coordinates: Start: E 457760 N 3735170 UTM Datum WGS 84 (See instructions)
Stop: E 457690 N 3735110 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary	Total Adult Residents	Total Pairs	Total Territories	Total Nests
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 1.25	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 824203-9 State Wildlife Agency Permit # SC-1951

***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

*Fill in the following information completely. **Submit** form by September 1st. Retain a copy for your records.*

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephenj.myers@amec.com
Site Name Valley-Ivyglen Project (Yard Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ____
Did you verify that this site name is consistent with that used in previous years? Yes ____ No _____ Not Applicable ✓
If site name is different, what name(s) was used in the past?_____
If site was surveyed last year, did you survey the same general area this year? Yes ____ No ____ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ____ If no, summarize below.

Management Authority for Survey Area: Federal____ Municipal/County ____ State ____ Tribal ____ Private ____
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.09 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

__X__ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Eucalyptus sp.

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (El Hermano Outliers) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 315 (meters)
Creek, River, Wetland, or Lake Name Unnamed tributary to Temescal Wash
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? *Yes* ✓ *No* ___

Survey Coordinates: Start: E 457170 N 3735670 UTM Datum WGS84 (See instructions)
Stop: E 457610 N 3735320 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.
*** Fill in additional site information on back of this page ****

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 1	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 1	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 1	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 1	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 June 11 Start Stop Total hrs 1	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary	Total Adult Residents	Total Pairs	Total Territories	Total Nests
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 5.0	0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (El Hermano Outliers) Date Report Completed _____
Was this site surveyed in a previous year? Yes ___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal ___ Municipal/County ___ State ___ Tribal ___ Private ___
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.60 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

___ Native broadleaf plants (entirely or almost entirely, > 90% native)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Tamarix ramosissima, Populus fremontii

Average height of canopy (Do not include a range): 8 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Temescal Wash Outlier) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 305 (meters)
Creek, River, Wetland, or Lake Name Temescal Wash
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ✓ No ___

Survey Coordinates: Start: E 456900 N 3735990 UTM Datum WGS 84 (See instructions)
Stop: E 456980 N 3735950 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start Stop Total hrs 0.25	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary

Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings.

Be careful not to double count individuals.

Total Survey Hrs 1.25

Total Adult Residents	Total Pairs	Total Territories	Total Nests
0	0	0	0

Were any Willow Flycatchers color-banded? Yes___ No ___

If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951

***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

*Fill in the following information completely. **Submit** form by September 1st. Retain a copy for your records.*

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Temescal Wash Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes___ No ✓ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ✓
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ___ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County ___ State ___ Tribal ___ Private ___
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.09 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

X Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp.

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Basin Outlier) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 325 (meters)
Creek, River, Wetland, or Lake Name
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? *Yes* ✓ *No* ___

Survey Coordinates: Start: E 456060 N 3735720 UTM Datum WGS 84 (See instructions)
Stop: E 456150 N 3735660 UTM Zone 11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # / Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N / If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start 0620 Stop 1045 Total hrs 4.5	0	0	0	N	Start and stop times are for entire survey at this site. The total estimated time spent birding is at bottom of form.	# Birds / Sex / UTM E / UTM N
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start 0615 Stop 1010 Total hrs 4	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start 0630 Stop 1130 Total hrs 5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start 0645 Stop 1115 Total hrs 4.5	0	0	0	N		# Birds / Sex / UTM E / UTM N
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start 0625 Stop 1000 Total hrs 3.5	0	0	0	N		# Birds / Sex / UTM E / UTM N

Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 1.67	Total Adult Residents	Total Pairs	Total Territories	Total Nests
	0	0	0	0

Were any Willow Flycatchers color-banded? Yes NA No ___
If yes, report color combination(s) in the comments section on back of form and report to USFWS.

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
***Submit** form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.*

Fill in the following information completely. Submit form by September 1st. Retain a copy for your records.

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley Ivyglen Project (Basin Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes ✓ No ___ Unknown ___
Did you verify that this site name is consistent with that used in previous years? Yes ___ No ✓ Not Applicable ___
If site name is different, what name(s) was used in the past? _____
If site was surveyed last year, did you survey the same general area this year? Yes ✓ No ___ If no, summarize below.
Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.

Management Authority for Survey Area: Federal___ Municipal/County ___ State ___ Tribal ___ Private ✓ ?
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.11 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

___ Native broadleaf plants (entirely or almost entirely, > 90% native)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.
Salix spp., Baccharis salicifolia, Tamarix ramosissima

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

APPENDIX C

WESTERN YELLOW-BILLED CUCKOO SURVEY FORMS

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Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 1	Visit #: 1	Date: 06/20/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0645		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1010		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 70/85

Broadcast-Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (^{0})	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0645		E 467459 N 3728046									
0652		E 467403 N 3728107									
0658		E 467435 N 3728255									
0705		E 467476 N 3728307									
0711		E 467429 N 3728362									
0717		E 467364 N 3728402									
0724		E 467307 N 3728468									
0732		E 467255 N 3728545									
0739		E 467222 N 3728625									
0748		E 467550 N 3728052									
0756		E 467597 N 3728120									
0803		E 467558 N 3728170									
0812		E 467537 N 3728227									
0820		E 467559 N 3728304									
0827		E 467555 N 3728382									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 1	Visit #: 1	Date: 06/20/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time:		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time:		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State:	County:	Data Entry:	
			Data verification:	

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F^0) start/stop:

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0836		E 467460 N 3728437									
0845		E 467432 N 3728508									
0853		E 467382 N 3728553									
0859		E 467550 N 3727894									
0908		E 467539 N 3727811									
0917		E 467624 N 3727740									
0925		E 467729 N 3727731									
0933		E 467833 N 3727674									
0940		E 467822 N 3727768									
0946		E 467735 N 3727832									
0952		E 467671 N 3727908									
1002		E 467591 N 3727960									
		E N									
		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 2	Visit #: 1	Date: 07/12/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0620		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1000		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 100-0	Precip:	Noise:	Temp (F^0) start/stop: 63/74

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on survey Period 1 forms.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0620		E N									
0628		E N									
0637		E N									
0646		E N									
0656		E N									
0703		E N									
0710		E N									
0718		E N									
0726		E N									
0733		E N									
0741		E N									
0750		E N									
0758		E N									
0806		E									
0815		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 2	Visit #: 1	Date: 07 12 2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time:		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N			**Observer:** Chet McGaugh		

Site Owner:	State:	County:	Data Entry:	
			Data verification:	

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F^0) start/stop:

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 forms.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0822		E N									
0830		E N									
0837		E N									
0845		E N									
0852		E N									
0900		E N									
0907		E N									
0914		E N									
0920		E N									
0928		E N									
0935		E N									
0948		E N									
		E N									
		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 3	Visit #: 1	Date: 07272011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0625		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1000		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 65/80

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 forms.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0625		E N									
0633		E N									
0642		E N									
0650		E N									
0656		E N									
0705		E N									
0713		E N									
0720		E N									
0728		E N									
0735		E N									
0742		E N									
0750		E N									
0800		E N									
0806		E									
0817		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 3	Visit #: 1	Date: 07272011
Drainage:	Habitat:	GPS #:	Transect **Start** Time:		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time:		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State:	County:	Data Entry:	
			Data verification:	

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F^0) start/stop:

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0825		E N									
0832		E N									
0840		E N									
0847		E N									
0855		E N									
0903		E N									
0911		E N									
0918		E N									
0926		E N									
0936		E N									
0945		E N									
0954		E N									
		E N									
		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 4	Visit #: 1	Date: 08102011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0725		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1040		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** John F. Green			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0-1	Cloud Cover: 100-0	Precip:	Noise:	Temp (F^0) start/stop: 61/80

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0725		E N									
0732		E N									
0740		E N									
0747		E N									
0756		E N									
0804		E N									
0802		E N									
0810		E N									
0816		E N									
0823		E N									
0830		E N									
0837		E N									
0845		E N									
0854		E									
0902		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Baker Street	Transect #:	Survey Period: 4	Visit #: 1	Date: 08102011
Drainage:	Habitat:	GPS #:	Transect **Start** Time:		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time:		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** John F. Green			

Site Owner:	State:	County:	Data Entry:	
			Data verification:	

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F^0) start/stop:

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0910		E N									
0917		E N									
0925		E N									
0932		E N									
0939		E N									
0946		E N									
0954		E N									
0959		E N									
1006		E N									
1014		E N									
1023		E N									
1034		E N									
		E N									
		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Nichols Road	Transect #:	Survey Period: 1	Visit #: 1	Date: 06/16/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0620		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1055		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Stephen J. Myers			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 100-20	Precip:	Noise:	Temp (F^0) start/stop: 59/76

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0620		E 466514 N 3729681									
0631		E 466574 N 3729620									
0644		E 466626 N 3729548									
0659		E 466685 N 3729471									
0712		E 466743 N 3729381									
0728		E 466796 N 3729314									
0736		E 466851 N 3729238									
0748		E 466905 N 3729152									
0757		E 466961 N 3729054									
0824		E 466985 N 3729203									
0836		E 467047 N 3729127									
0855		E 467138 N 3729073									
0920		E 467230 N 3729029									
0934		E 467288 N 3728967									
0948		E 467359 N 3728906									
10 12		467427 3728829									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Nichols Road	Transect #:	Survey Period: 2	Visit #: 1	Date: 07/11/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0610		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 0956		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** John F. Green			

Site Owner:	State: CA	County: Riverside	Data Entry:
			Data verification:

Wind: 0-2	Cloud Cover: 100-0	Precip:	Noise:	Temp (F^0) start/stop: 64/73

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0610		E N									
0621		E N									
0635		E N									
0647		E N									
0700		E N									
0714		E N									
0727		E N									
0738		E N									
0750		E N									
0817		E N									
0826		E N									
0840		E N									
0853		E N									
0912		E									
0925		E									

0939

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Nichols Road	Transect #:	Survey Period: 3	Visit #: 1	Date: 07262011
Drainage:	Habitat:		GPS #:	Transect **Start** Time:	0700
UTM Start E:			Start GPS acc. (m):	Transect **Stop** Time:	1020
UTM Start N:			Zone:		
UTM Stop E:			Stop GPS acc. (m):	NAD:	
UTM Stop N			**Observer:** Stephen J. Myers		

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 66/88

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0700		E N									
0714		E N									
0725		E N									
0751		E N									
0810		E N									
0819		E N									
0832		E N									
0844		E N									
0857		E N									
0918		E N									
0929		E N									
0940		E N									
0949		E N									
0959		E									
1009		E									

1020

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Nichols Road	Transect #:	Survey Period: 4	Visit #: 1	Date: 08102011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0650		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 0945		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 100 - 0	Precip:	Noise:	Temp (F^0) start/stop: 61/76

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0650		E N									
0704		E N									
0720		E N									
0738		E N									
0751		E N									
0808		E N									
0819		E N									
0832		E N									
0844		E N									
0903		E N									
0917		E N									
0928		E N									
0936		E N									
0942		E									
0950		E									

0958

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Lake Street	Transect #:	Survey Period:	Visit #: 1	Date: 07012011
Drainage:	Habitat:		GPS #:	Transect **Start** Time:	6650
UTM Start E:		Start GPS acc. (m):		Transect **Stop** Time:	1030
UTM Start N:				Zone:	
UTM Stop E:		Stop GPS acc. (m):		NAD:	
UTM Stop N				**Observer:** Chet McGaugh	

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 64/89

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0650		E 463468 N 3732166									
0713		E 463382 N 3732178									
0724		E 463322 N 3732175									
0740		E 463228 N 3732188									
0755		E 463156 N 3732224									
0809		E 463079 N 3732231									
0823		E 463007 N 3732246									
0846		E 462946 N 3732282									
0856		E 462877 N 3732289									
0910		E 462808 N 3732314									
0923		E 462934 N 3732201									
0940		E 463010 N 3732169									
1000		E 463097 N 3732122									
1014		E 463175 N 3732086									
1023		E 463281 N 3732082									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Lake Street	Transect #:	Survey Period: 2	Visit #: 1	Date: 07/12/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0635		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1020		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Stephen J. Myers			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0-2	Cloud Cover: 100-0	Precip:	Noise:	Temp (F^0) start/stop: 64/76

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0635		E N									
0650		E N									
0714		E N									
0729		E N									
0745		E N									
0758		E N									
0814		E N									
0829		E N									
0842		E N									
0859		E N									
0915		E N									
0931		E N									
0948		E N									
1005		E									
1016		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Lake Street	Transect #:	Survey Period: 3	Visit #: 1	Date: 07262011
Drainage:	Habitat:	GPS #:	Transect **Start** Time:		0625
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time:		0930
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** John F. Green			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 69/82

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (^{o})	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0625		E N									
0637		E N									
0649		E N									
0704		E N									
0717		E N									
0730		E N									
0743		E N									
0800		E N									
0812		E N									
0825		E N									
0837		E N									
0850		E N									
0902		E N									
0915		E									
0926		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Lake Street	Transect #:	Survey Period: 4	Visit #: 1	Date: 08092011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0700		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1020		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 100-0	Precip:	Noise:	Temp (F^0) start/stop: 65/78

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0700		E N									
0713		E N									
0726		E N									
0740		E N									
0755		E N									
0809		E N									
0822		E N									
0835		E N									
0849		E N									
0901		E N									
0914		E N									
0927		E N									
0941		E N									
0959		E									
1014		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Hostetler Road	Transect #:	Survey Period: 1	Visit #: 1	Date: 06292011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0655		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1630		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Stephen J. Myers			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0-5	Cloud Cover: 100-0	Precip:	Noise:	Temp (F°) start/stop: 62/76

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0655		E 461689 N 3732332									
0711		E 461719 N 3732414									
0726		E 461698 N 3732584									
0740		E 461825 N 3732558									
0758		E 461863 N 3732450									
0814		E 461963 N 3732433									
0829		E 462085 N 3732428									
0846		E 462191 N 3732391									
0901		E 462292 N 3732370									
0916		E 462416 N 3732380									
0932		E 462674 N 3732342									
0945		E 461469 N 3732627									
1000		E 461416 N 3732740									
1018		E 461354 N 3732840									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Hostetler Road	Transect #:	Survey Period: 2	Visit #: 1	Date: 07/11/2011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0720		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 1030		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Stephen J. Myers			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 64/77

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0720		E N									
0734		E N									
0749		E N									
0803		E N									
0817		E N									
0830		E N									
0843		E N									
0858		E N									
0912		E N									
0924		E N									
0937		E N									
0949		E N									
1005		E N									
1021		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Hostetler Road	Transect #:	Survey Period: 3	Visit #: 1	Date: 07252011
Drainage:	Habitat:	GPS #:	Transect **Start** Time: 0625		
UTM Start E:		Start GPS acc. (m):	Transect **Stop** Time: 0930		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N		**Observer:** Chet McGaugh			

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 69/82

Broadcast -Point Start Time	GPS acc.	UTM (Coordinates listed on Survey Period 1 form.)	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0625		E N									
0639		E N									
0654		E N									
0708		E N									
0721		E N									
0738		E N									
0751		E N									
0805		E N									
0817		E N									
0830		E N									
0843		E N									
0856		E N									
0910		E N									
0921		E									
		E									

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: Hostetler Road	Transect #:	Survey Period: 4	Visit #: 1	Date: 08082011
Drainage:	Habitat:		GPS #:	Transect **Start** Time:	0605
UTM Start E:			Start GPS acc. (m):	Transect **Stop** Time:	0940
UTM Start N:			Zone:		
UTM Stop E:			Stop GPS acc. (m):	NAD:	
UTM Stop N			**Observer:** Chet McGaugh		

Site Owner:	State: CA	County: Riverside	Data Entry:	
			Data verification:	

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F^0) start/stop: 62/82

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form. UTM	YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0605		E N									
0620		E N									
0636		E N									
0651		E N									
0708		E N									
0722		E N									
0737		E N									
0751		E N									
0809		E N									
0824		E N									
0839		E N									
0856		E N									
0914		E N									
0929		E									
		E									

APPENDIX D

MAPS OF SURVEY AREAS AND SURVEY RESULTS

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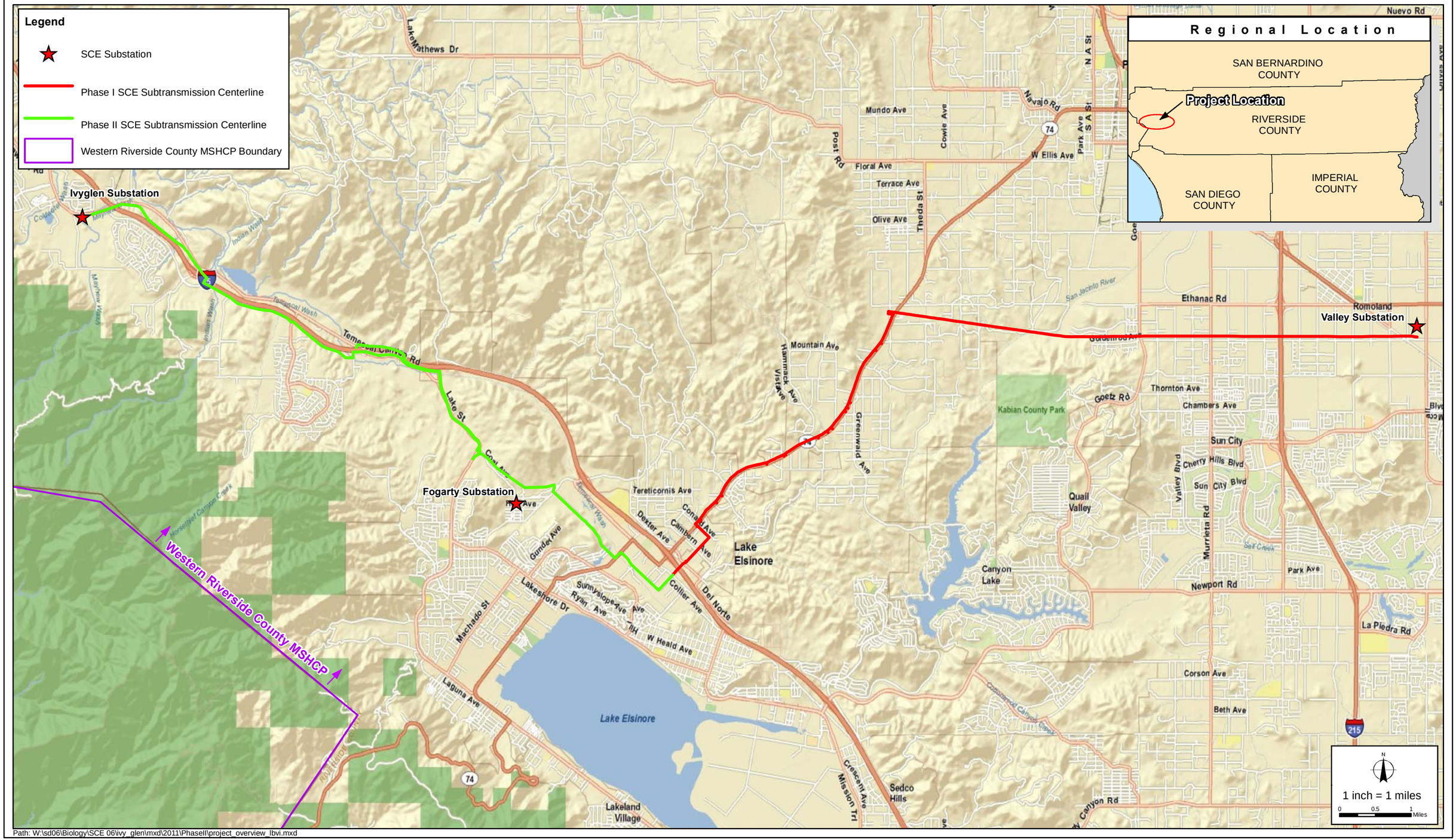

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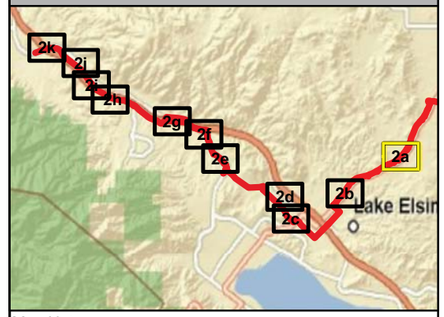
Project Overview
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
Valley-Ivyglen Subtransmission Line Project
Riverside County, California

MAP 1

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

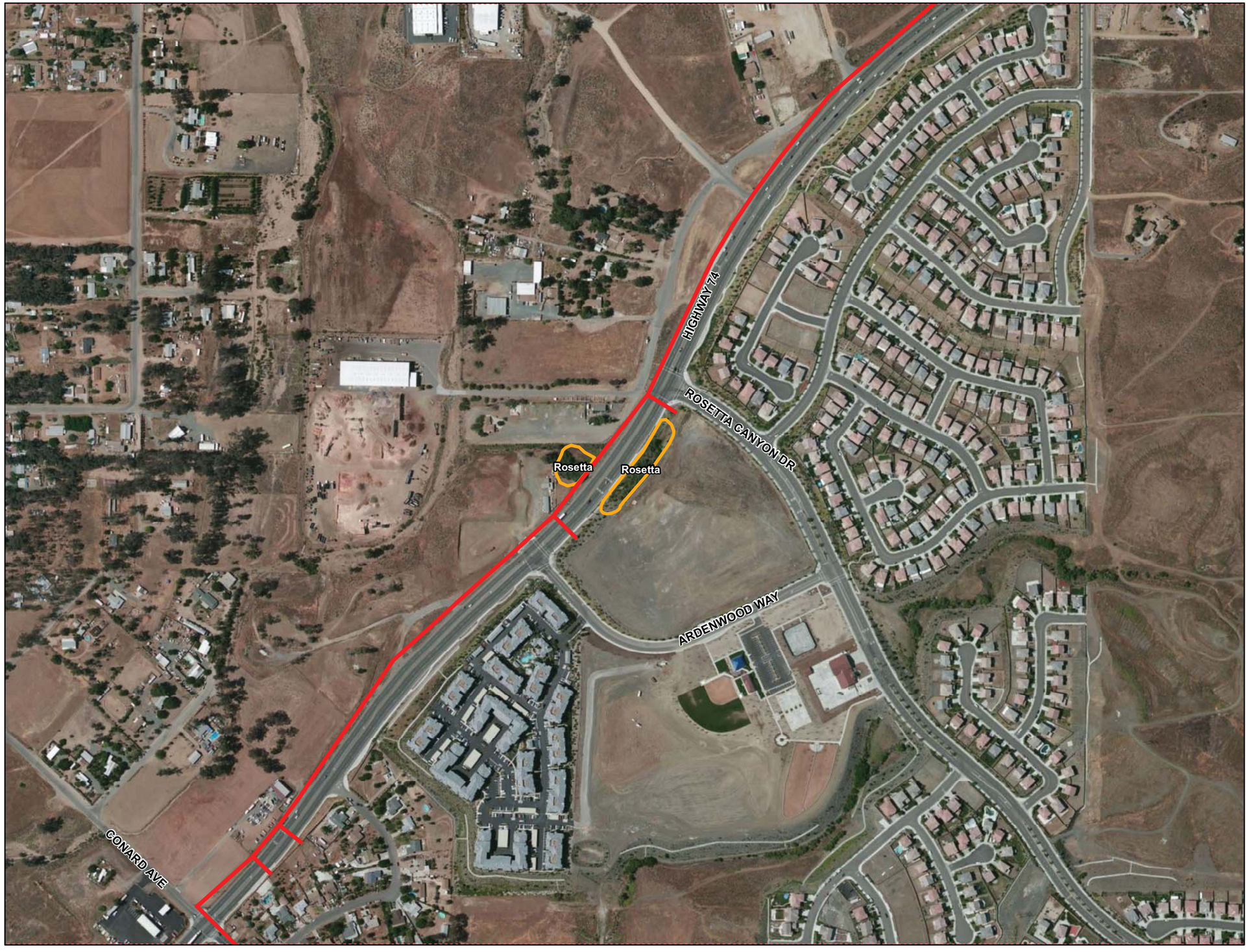
1 inch = 400 feet

0 200 400 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

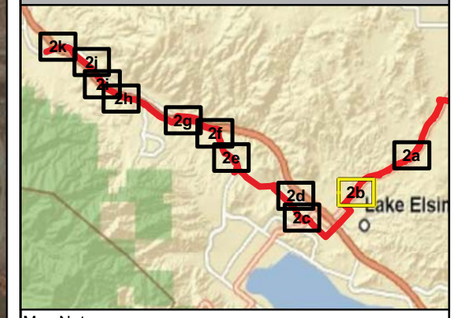
Map 2a



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

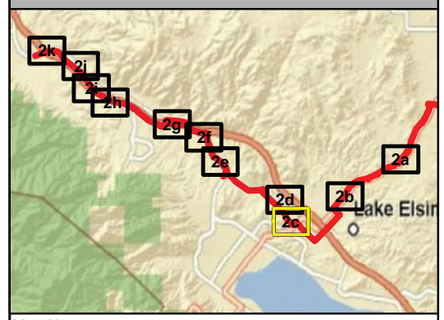
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2b

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

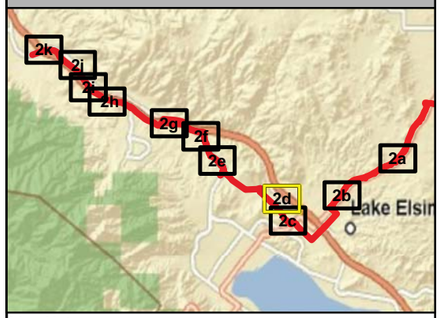
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2c

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

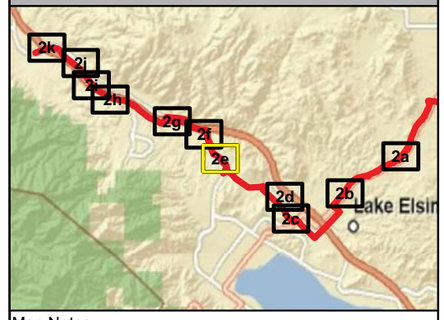
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2d

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

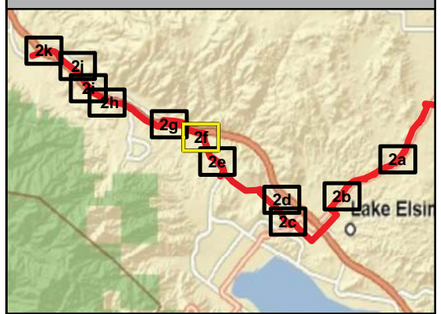
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2e

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

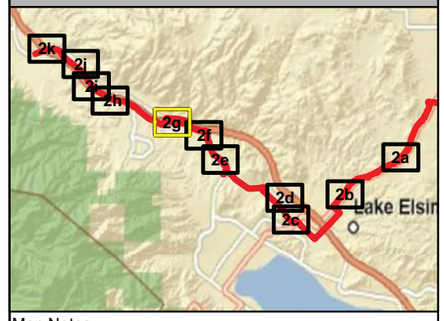
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2f

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

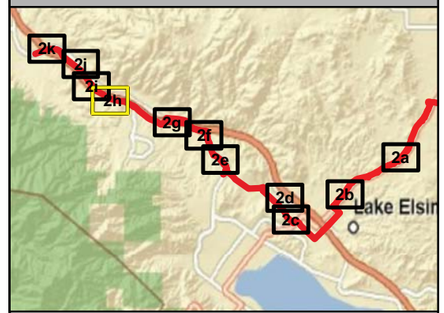
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 2g

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

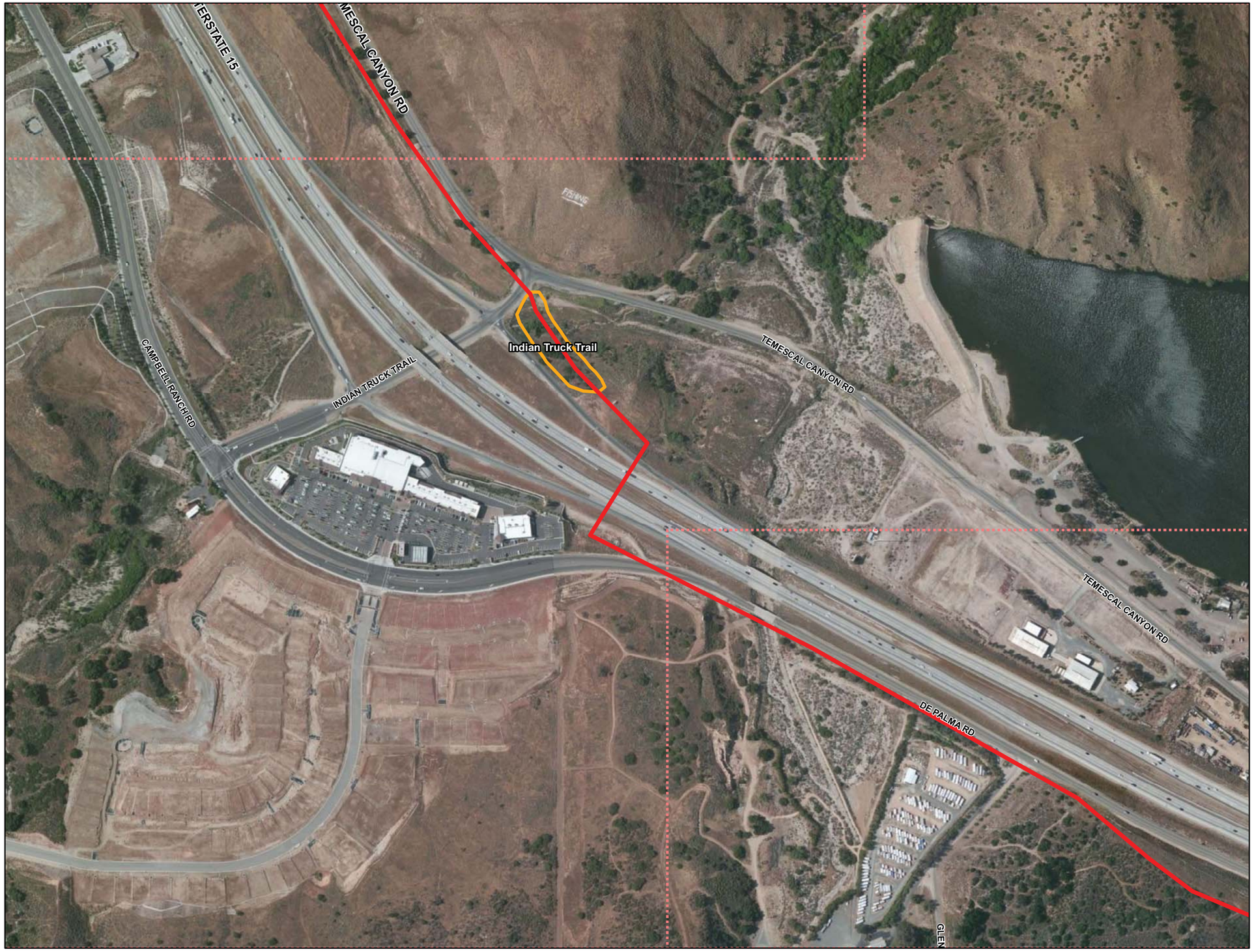
1 inch = 400 feet

0 200 400 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

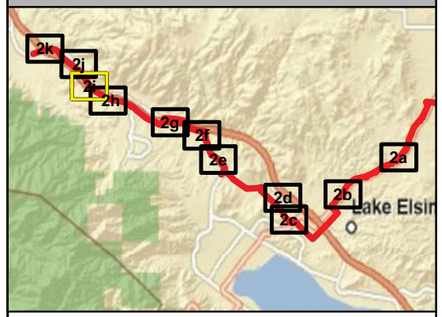
Map 2h



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 400 feet

0 200 400 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

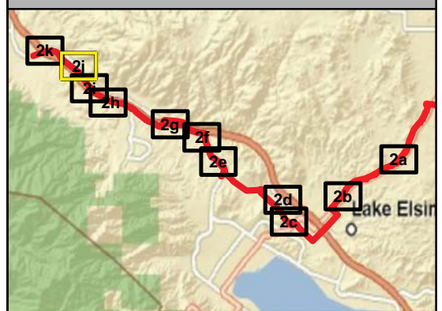
Map 2i

TEMESCAL CANYON RD
EL HERMANO RD
INTERSTATE 15
El Hermano
The Yard
Old Road
Old Road
MAGNOLIA ST
MAYHEW CANYON RD
INTERSTATE 15
TEMESCAL CANYON RD

Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

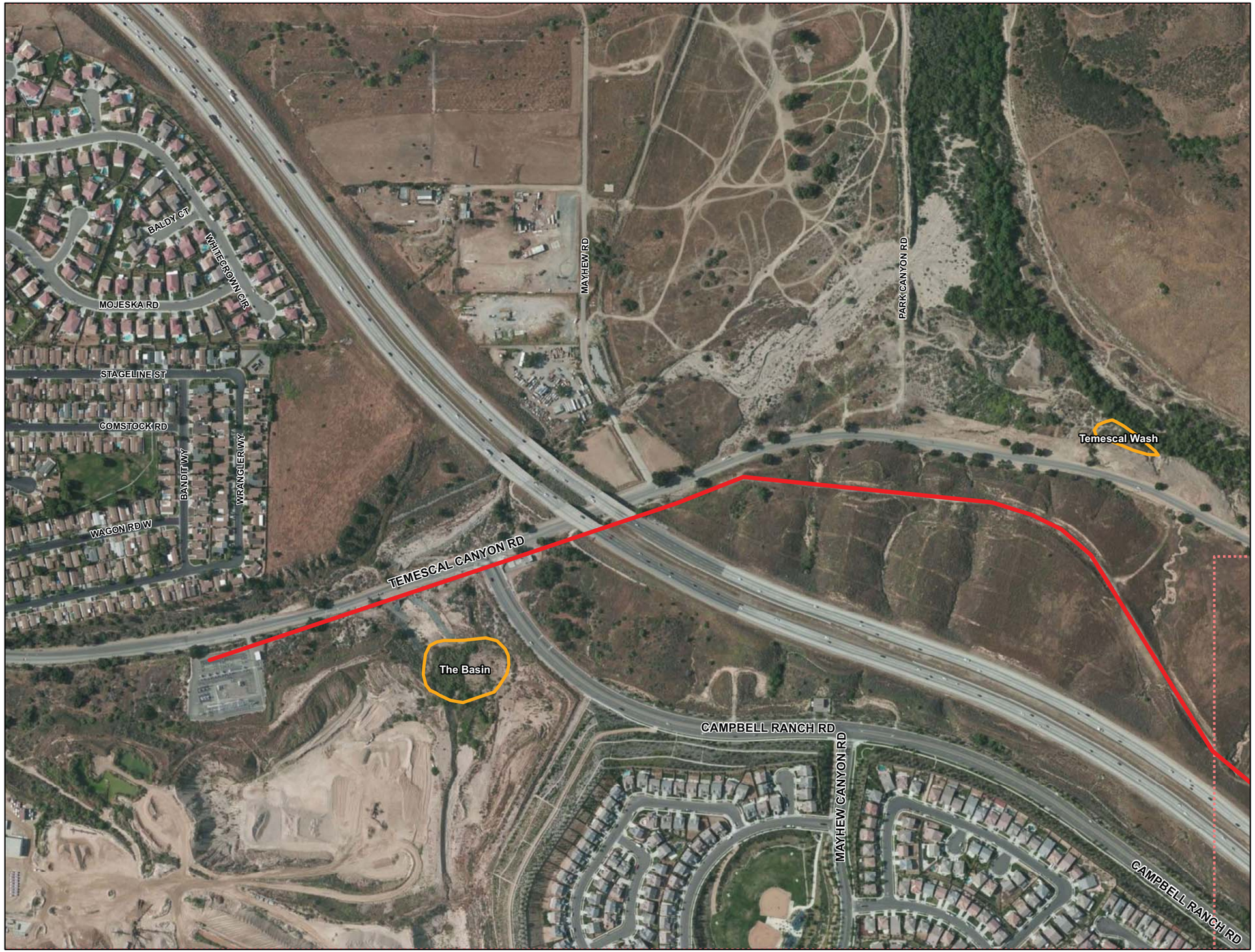
1 inch = 400 feet

0 200 400 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

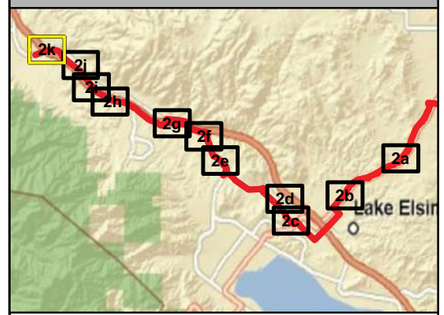
Map 2j



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

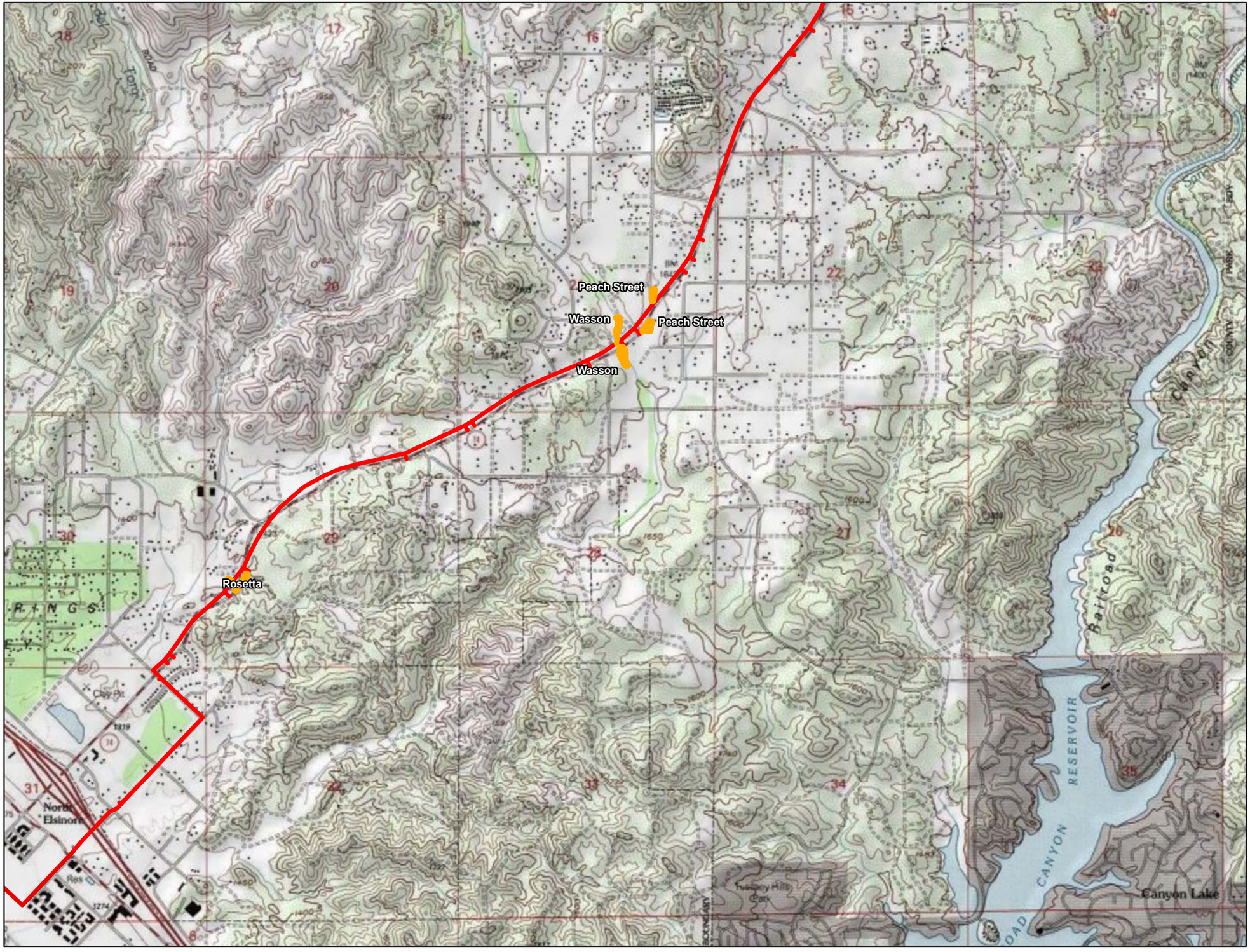
1 inch = 400 feet

0 200 400 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

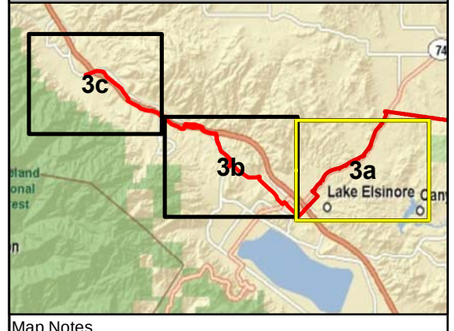
Map 2k



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
USGS Topo - Lake Elsinore (1977)
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

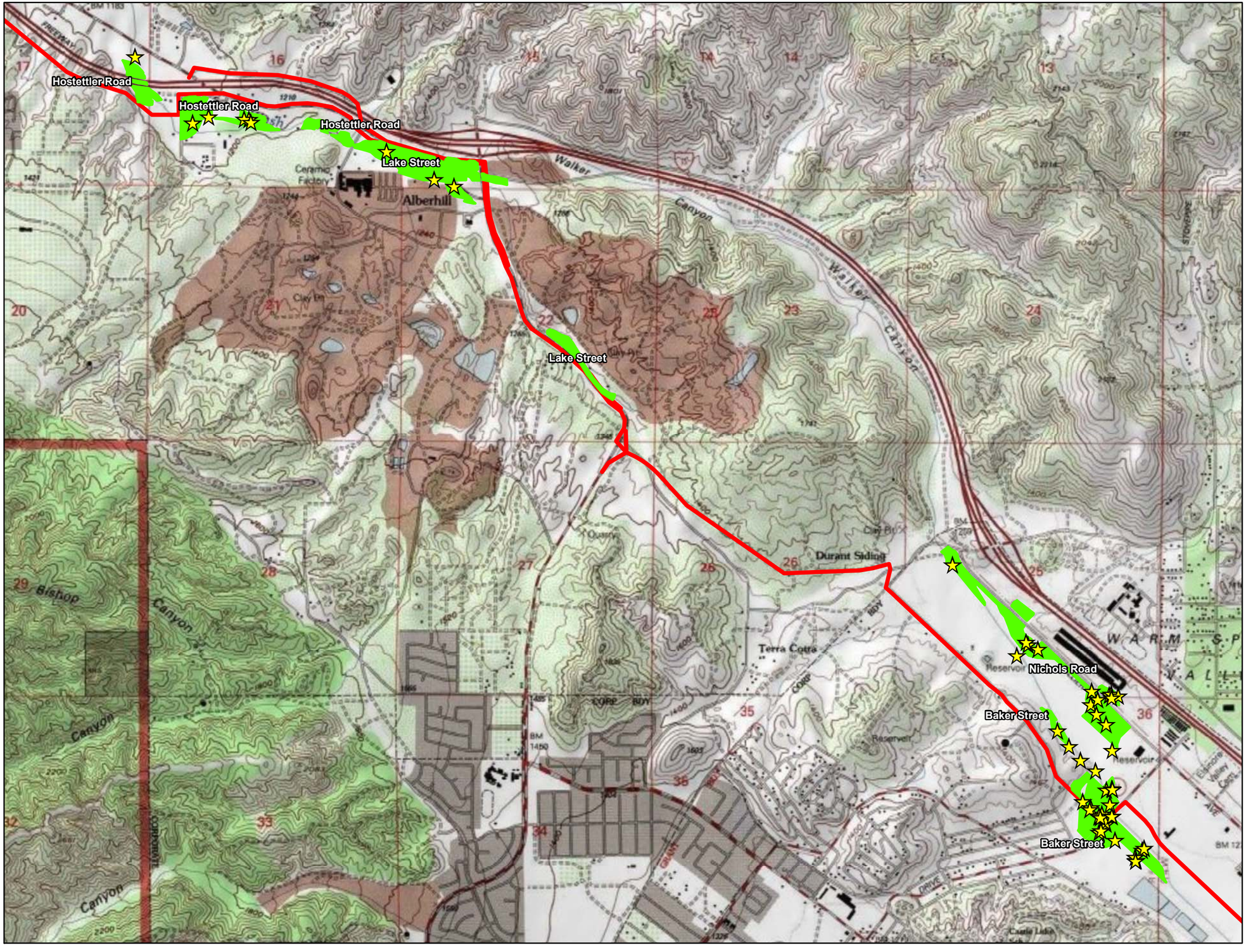
1 inch = 2,000 feet

0 1,000 2,000 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

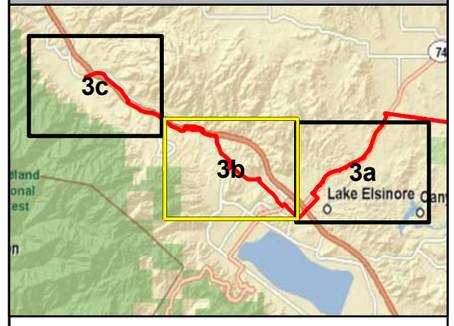
Map 3a



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
USGS Topo - Lake Elsinore (1977)
Alberhill (1977)
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

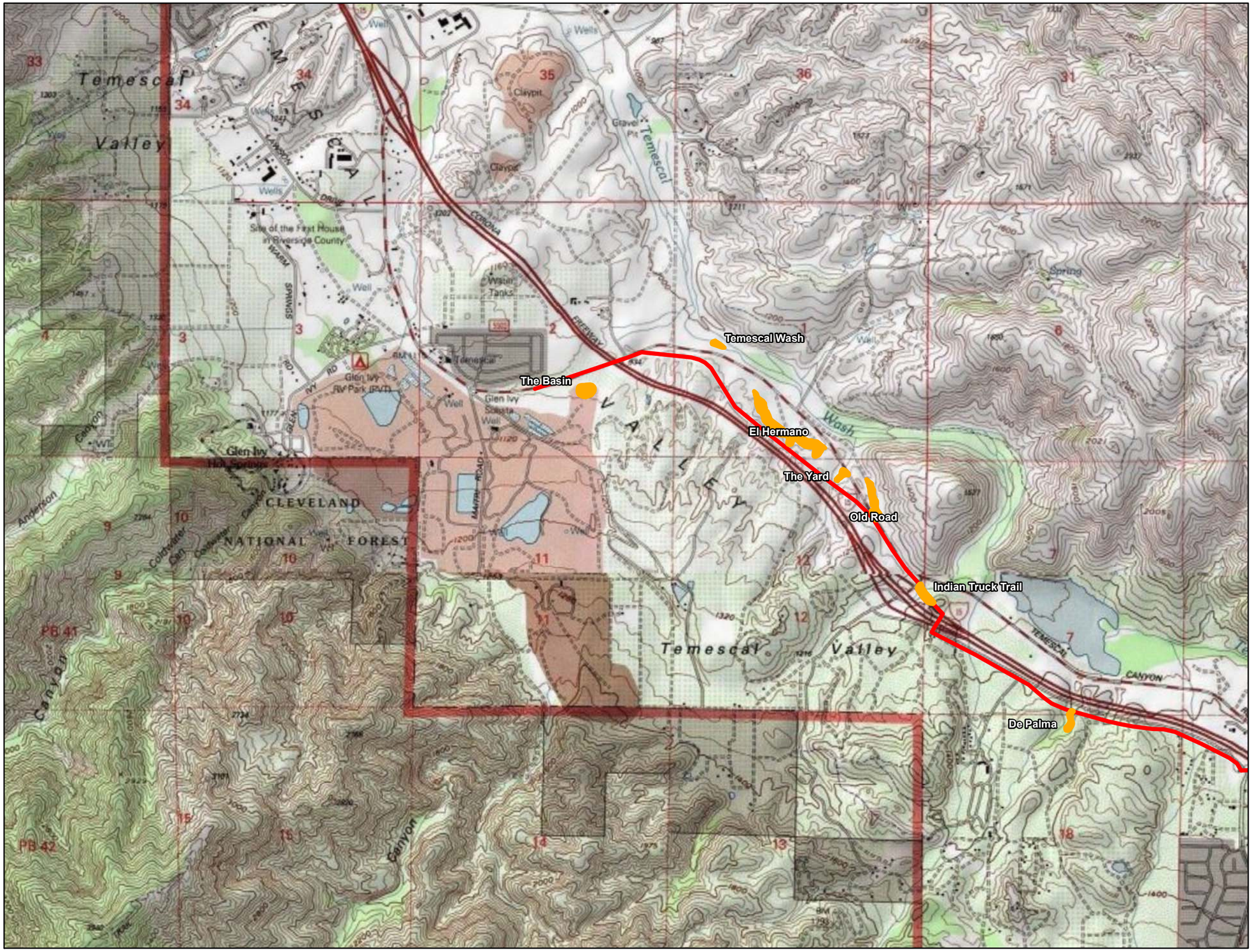
1 inch = 2,000 feet

0 1,000 2,000 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

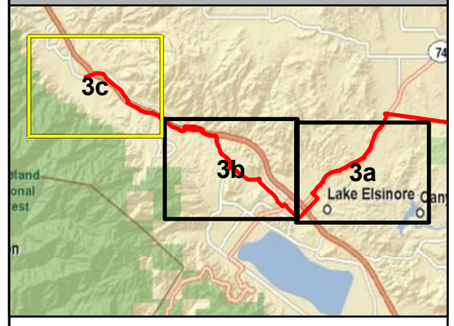
Map 3b



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes

USGS Topo - Corona South (1977)
Lake Mathews (1977)
Santiago Peak (1977)
Alberhill (1977)
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec

1 inch = 2,000 feet

0 1,000 2,000 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 3c