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RESULTS OF FOCUSED SURVEYS FOR THE LEAST BELL'S VIREO AND SOUTHWESTERN WILLOW FLYCATCHER FOR THE VALLEY-IVYGLEN SUBTRANSMISSION LINE PROJECT, PHASE 1 RIVERSIDE COUNTY, CALIFORNIA



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EXECUTIVE SUMMARY

At the request of Southern California Edison (SCE), AMEC Environment & Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase 1 (see Appendix A, Figures 1-3). These patches are locations where these subspecies have not been detected in previous survey years (AMEC 2007, 2009, 2010, 2011, 2012). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). One Least Bell's Vireo territory was detected. No Southwestern Willow Flycatchers were detected.





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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.				
CDFW California Department of Fish and Wildlife					
°F	degrees Fahrenheit				
kV	kilovolt				
LBV Least Bell's Vireo					
mph miles per hour					
MSHCP	Multiple Species Habitat Conservation Plan				
PST	Pacific Standard Time				
project	Valley-Ivyglen Transmission Line Project, Phase 1				
ROW	right-of-way				
SCE	Southern California Edison				
study area	project ROW and 500-foot buffer from centerline of ROW				
SWF Southwestern Willow Flycatcher					
USFWS	United States Fish and Wildlife Service				
USGS	United States Geological Survey				
study area SWF USFWS	project ROW and 500-foot buffer from centerline of ROW Southwestern Willow Flycatcher United States Fish and Wildlife Service				





1.0 INTRODUCTION

At the request of Southern California Edison (SCE), AMEC Environment & Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase 1 (see Appendix A, Figures 1-3). These patches are locations where these subspecies have not been detected in previous survey years (AMEC 2007, 2009, 2011, 2012). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). This report presents the findings of those focused surveys

1.1 Project Description

The proposed project has been divided into two portions: eastern (Phase 1) and western (Phase 1I). Phase 1 extends from the Valley Substation in the City of Menifee southwest to the corner of Collier Avenue and Third Street in the City of Lake Elsinore. The Valley Substation is located in the City of Menifee on the west side of Menifee Road between McLaughlin and Ethanac Roads. Phase 2 extends from that corner northwest to the Ivyglen Substation in the City of Corona. The proposed project is designed to improve reliability and meet projected electrical load requirements in western Riverside County, and involves the eventual construction of a new 115 kilovolt (kV) transmission line between the Valley and Ivyglen Substations.

The proposed Phase 1 transmission line route (project) is located entirely in western Riverside County, California. It traverses portions of unincorporated county and the cities of Menifee, Perris, and Lake Elsinore (see Appendix A, Figure 1). The route traverses portions of the Lake Elsinore and Romoland United States Geological Survey (USGS) 7.5-minute series topographic quadrangles (see Appendix A, Figures 2-1 and 2-2).

This report concerns focused surveys conducted within the Phase 1 portion of the project area; Phase 2 will not be discussed further. Appropriate habitat was surveyed along the proposed transmission line right-of-way (ROW) and a 500-foot buffer from the centerline of the proposed ROW (study area), with the exception of areas that already have established occurrences of Least Bell's Vireos.

The study area is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP is a comprehensive, multi-jurisdictional Habitat Conservation Plan, which focuses on conservation of species and their associated habitats in western Riverside County (Riverside County 2003).

1.2 Survey Areas

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

Goldenrod Avenue: approximate UTM of survey area: Zone 11, 478950E, 3732690N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute Romoland, Calif quadrangle.



- Alabaster Loop: approximate UTM of survey area: Zone 11, 475389E, 3733085N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute Romoland, Calif quadrangle.
- El Freso: approximate UTM of survey area: Zone 11, 478330E, 3732650N (NAD27).
 This point occurs on lands mapped on the USGS 7.5 minute Lake Elsinore, Calif quadrangle.
- 4. <u>Peach Street:</u> approximate UTM at north end of survey area: Zone 11, 472580E, 3730997N (NAD27); approximate UTM at south end of survey area: Zone 11, 472612E, 3730803N (NAD27). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore*, *Calif.* quadrangle.
- 5. Wasson Canyon: approximate UTM at north end of survey area: Zone 11, 472339E, 3730799N (NAD27); approximate UTM at south end of survey area: Zone 11, 472425E, 3730494N (NAD27). These points occur on lands mapped on the USGS 7.5 minute Lake Elsinore, Calif. quadrangle. Report cover photo is of this survey area, taken from the south end looking north.
- Rosetta Canyon: approximate UTM at west end of survey area: Zone 11, 469844E, 3729121N (NAD27); approximate UTM at east end of survey area: Zone 11, 469995E, 3729143N (NAD27). These points occur on lands mapped on the USGS 7.5 minute Lake Elsinore, Calif. quadrangle.

Maps of the survey areas can be found in Appendix A, and photos of the survey areas can be found in Appendix E.

1.3 Species Information: Least Bell's Vireo

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

Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). The population is slowly recovering as a result of habitat restoration and cowbird control efforts. Least Bell's Vireo is listed as Endangered by the California Department of Fish and Wildlife (CDFW) and by the United States Fish and Wildlife Service (USFWS) (USFWS 1986). A final determination of critical habitat was made in 1994 (USFWS 1994). The project area is not within designated critical habitat for the Least Bell's Vireo.



1.4 Species Information: Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWF) is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as federally endangered (USFWS 1995). Critical habitat was designated for this species in 1997 (USFWS 1997), then revised and finalized again in 2005 (USFWS 2005), then revised and finalized again in 2013 (USFWS 2013). The project area is not within currently designated critical habitat for the SWF.

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

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





2.0 METHODS

2.1 Least Bell's Vireo and Southwestern Willow Flycatcher

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed eight times by AMEC biologists. The LBV protocol requires surveys to be conducted at least 10 days apart from 10 April to 31 July. The SWF protocol requires five 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 from 25 June and 17 July (Sogge et al. 2010), with at least five days between surveys. The SWF surveys were performed concurrently with LBV surveys.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the two target species. During the SWF surveys, recordings of their vocalizations were broadcast as required by protocol. All bird species detected during the surveys were recorded in field notes and a list of them was compiled for Appendix B. Field forms for the SWF are presented in Appendix C.

Due to the small size of the riparian patches, all areas were surveyed in a single morning on each visit. Surveys were performed by Stephen J. Myers (TE804203) and John F. Green (TE054011). Table 1 summarizes the surveys. The survey areas are illustrated in Appendix A on Figures 2-1 and 2-2 (USFWS required topographic maps) which correspond to Figures 3-1 through 3-6 (aerial photos).

Table 1.

Least Bell's Vireo and Southwestern Willow Flycatcher Survey Data

Date	Observer	Time (PST)	Temp. (°F)	Wind (mph)	Sky (% cover)
10 April 2013	John F. Green	0800-1000	69-71	2-5	0
26 April 2013	John F. Green	0735-0940	63-76	0	0
8 May 2013	Stephen J. Myers	0830-1025	65-73	0-2	50-70
20 May 2013†	John F. Green	0650-0850	65-80	1-3	0
3 June 2013†	Stephen J. Myers	0440-0650	58-65	0-2	100-80
19 June 2013†	John F. Green	0520-0735	60-70	0-2	0
3 July 2013†	Stephen J. Myers	0445-0715	69-80	0	60-50
15 July 2013†	Stephen J. Myers	0520-0800	67-85	0	0

Notes:

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





3.0 RESULTS

3.1 Habitat Description

The six survey areas are all vegetated with plants typical of lowland riparian areas in Southern California, including willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and Fremont Cottonwoods (*Populus fremontii*).

The *Goldenrod Avenue* survey area was part of a poorly defined drainage in the past (judging from topographic maps and old aerial photos), but probably did not support riparian vegetation. Runoff from new housing developments has created and sustained this patch, and surface water was present throughout the survey season.

The **Alabaster Loop** survey area is on a former USGS mapped blueline intermittent stream, but again likely did not support riparian vegetation in the past. The drainage was highly modified by development, and the riparian patch is sustained by runoff. Surface water was present throughout the survey season.

The *El Freso* survey area is in a small, narrow canyon above a USGS mapped, intermittent, unnamed stream. It appears to be supported by groundwater and/or runoff from an adjacent rural residence, but no surface water was visible during the season.

The **Peach Street** survey area was also part of a poorly defined drainage in the past, which probably did not support riparian vegetation. It is split by Highway 74, which it crosses under through a culvert. Runoff from Highway 74 and rural residential in the area has sustained the riparian vegetation here, but drought conditions this year resulted in no surface water present during the survey season. Some riparian vegetation near Highway 74 was damaged/removed from the north patch prior to the survey season, possibly for flood control maintenance.

The *Wasson Canyon* survey area is in a relatively large and well defined drainage mapped by the USGS as an intermittent stream. It is split by Highway 74, which it crosses under through large culverts. It gains some water through runoff from Highway 74 and rural residences, but rarely contains surface water, and contained none during this season. It may have historically sustained riparian vegetation.

Finally, the *Rosetta Canyon* survey area was part of yet another poorly defined drainage in the past which probably did not support riparian vegetation. It is split by Highway 74, which it crosses under through a culvert. Runoff from Highway 74 and rural residences and businesses now sustain riparian vegetation on the north side of the highway, and a new patch has developed on the south side which was once scraped bare (several years ago). Surface water was present throughout the survey season.

Appendix A has maps of the survey areas and Appendix E has photographs of them.



3.2 Survey Results

Sixty-two bird species were detected during the 2013 Phase 1 riparian birds focused surveys. Among them 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 (*Setophaga petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*). A complete list is attached as Appendix B.

3.2.1 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers or any other subspecies of Willow Flycatcher were detected at any of the survey areas.

3.2.2 Least Bell's Vireo

A single, singing Least Bell's Vireo was detected on multiple survey days at the northern patch of the Rosetta Canyon survey area (see Appendix A, Figure 3-6). Only the singing male was ever seen/heard; breeding success is unknown.



4.0 LITERATURE CITED

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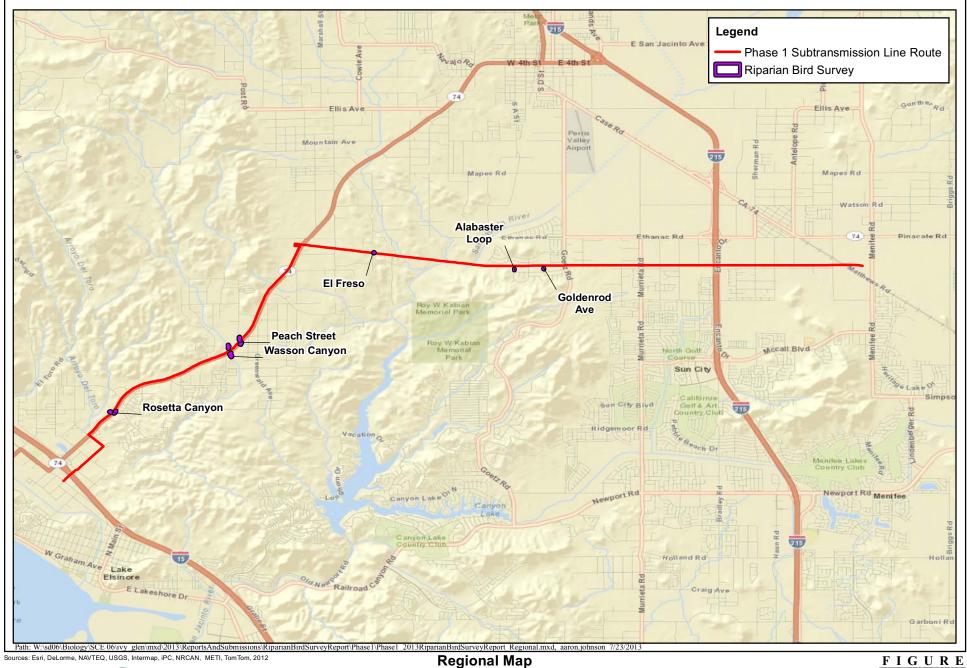


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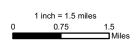
APPENDIX A FIGURES





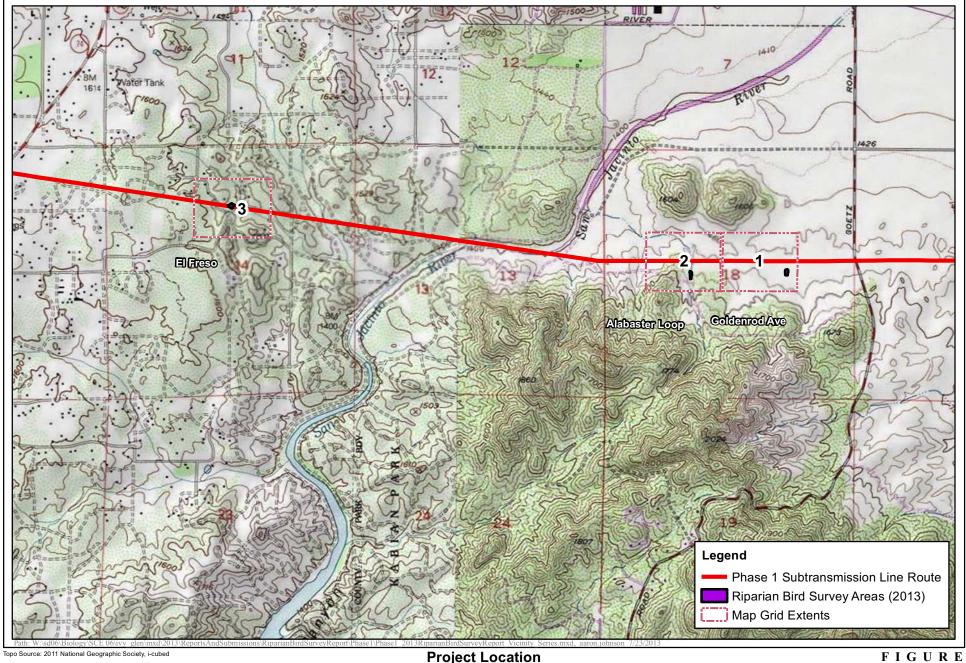
2013 Riparian Bird Focused Surveys

Valley-Ivyglen Subtransmission Line Project: Phase 1 **Riverside County, CA**





FIGURE



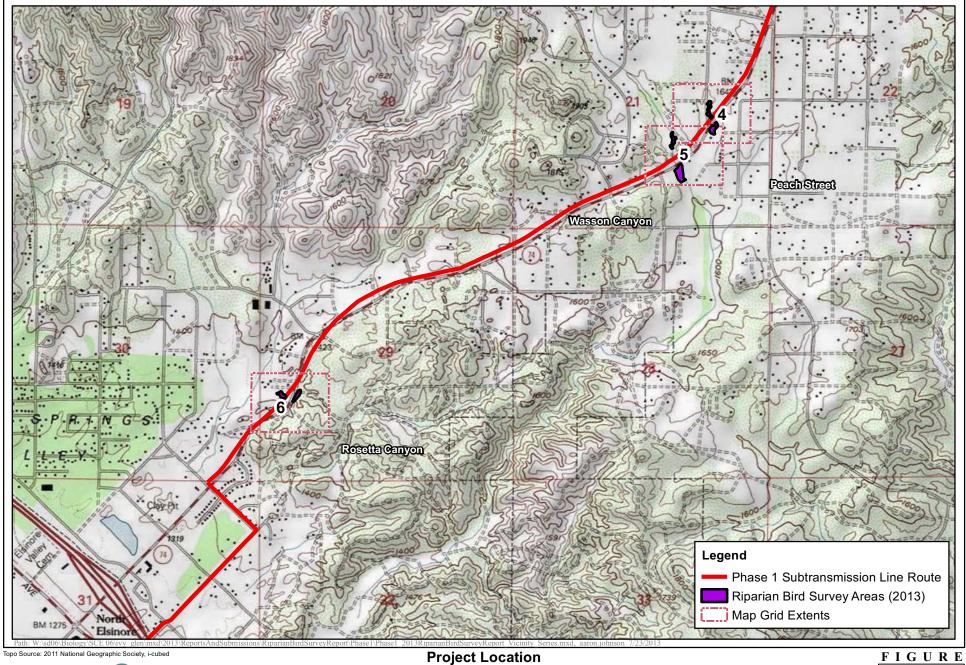


Project Location 2013 Riparian Bird Focused Surveys Valley-lvyglen Subtransmission Line Project: Phase 1 **Riverside County, CA**





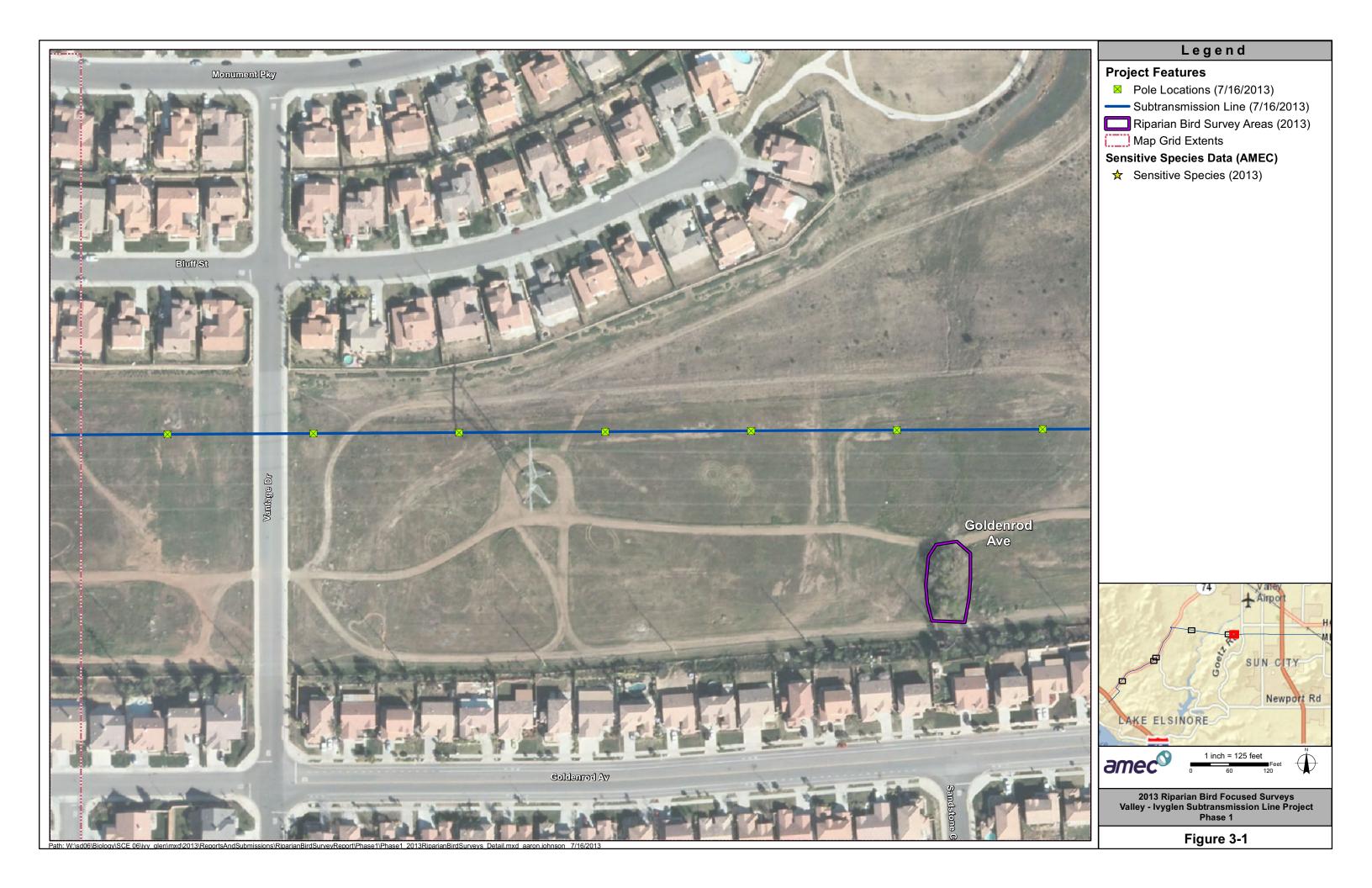
2-1

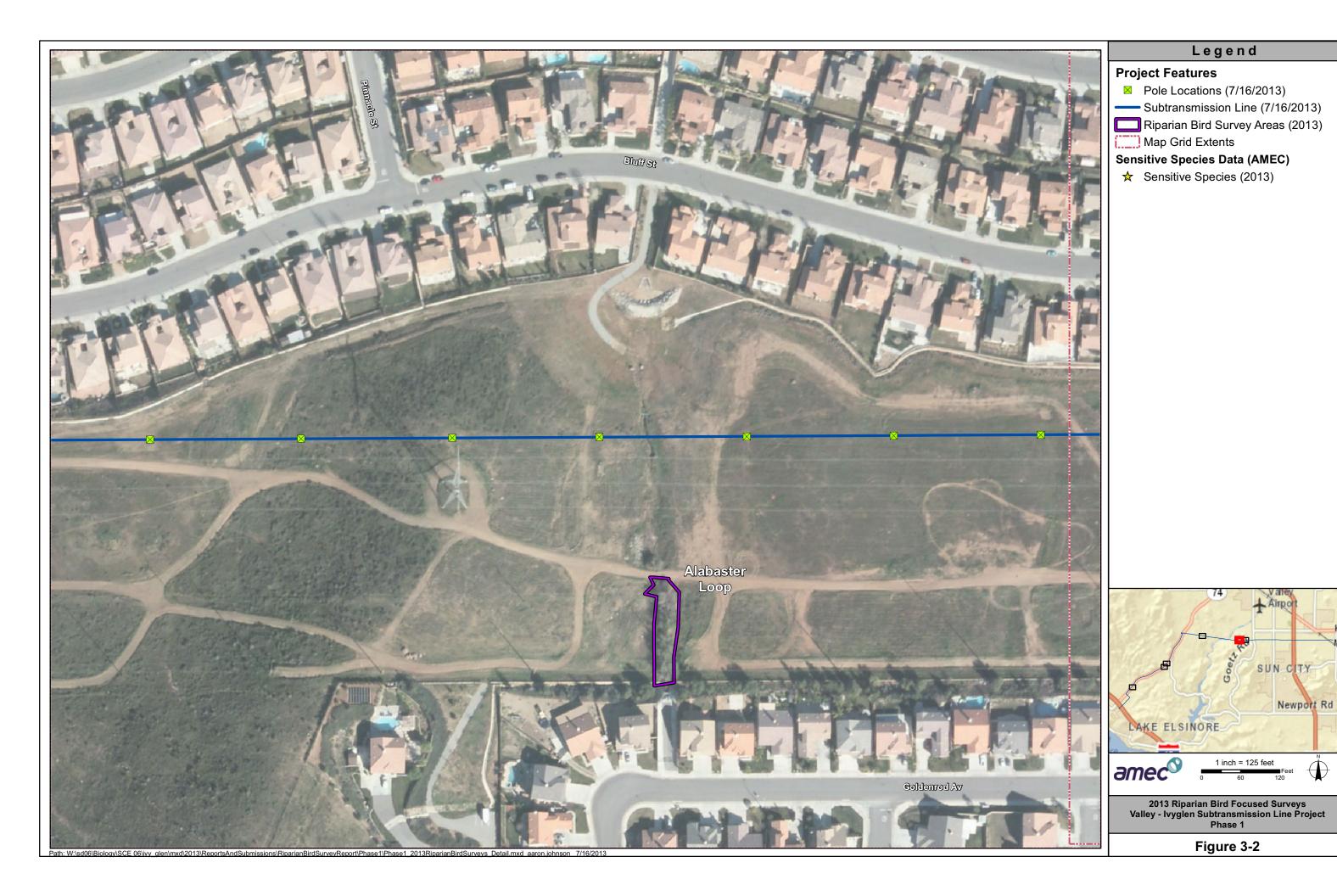


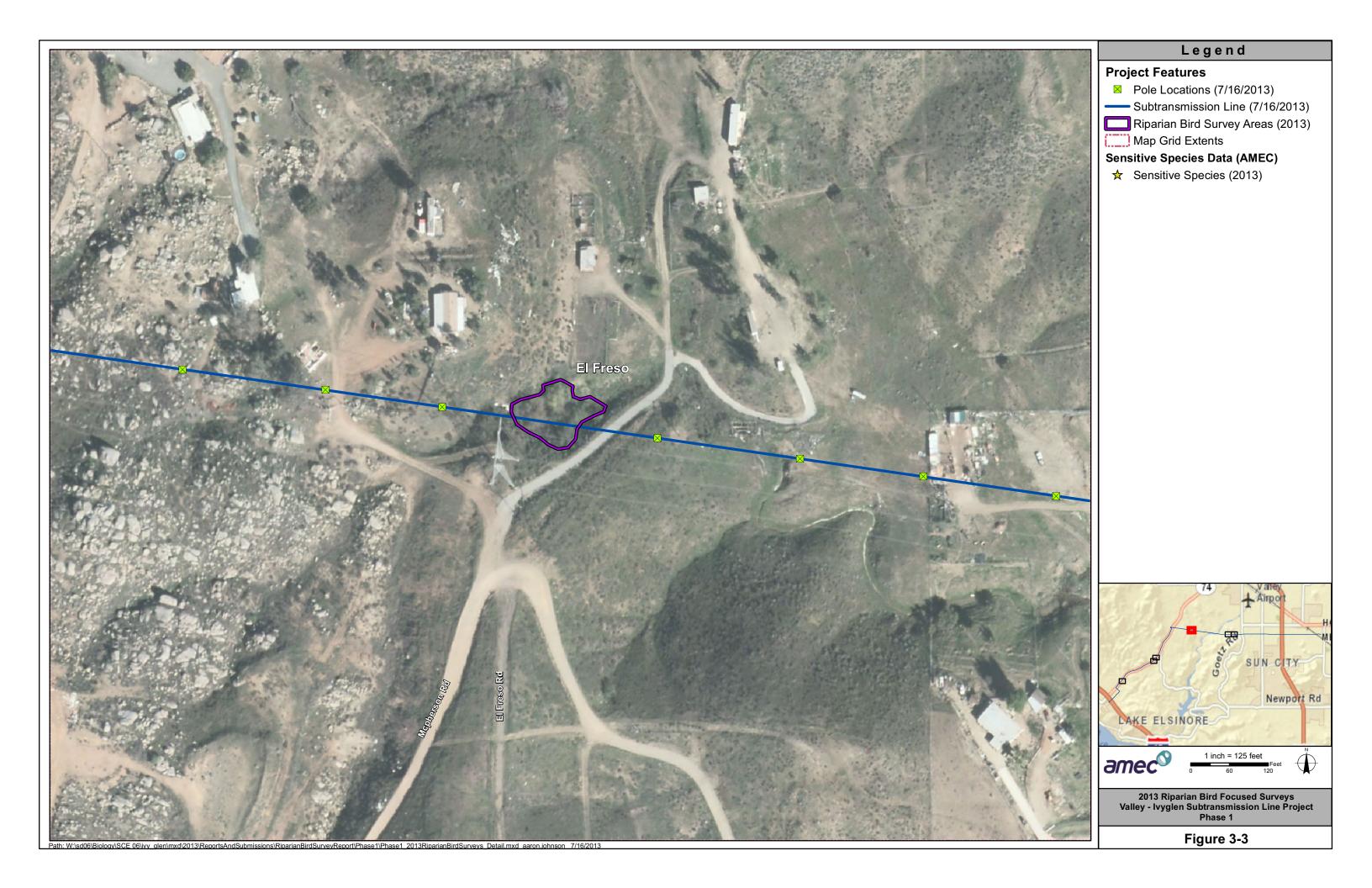


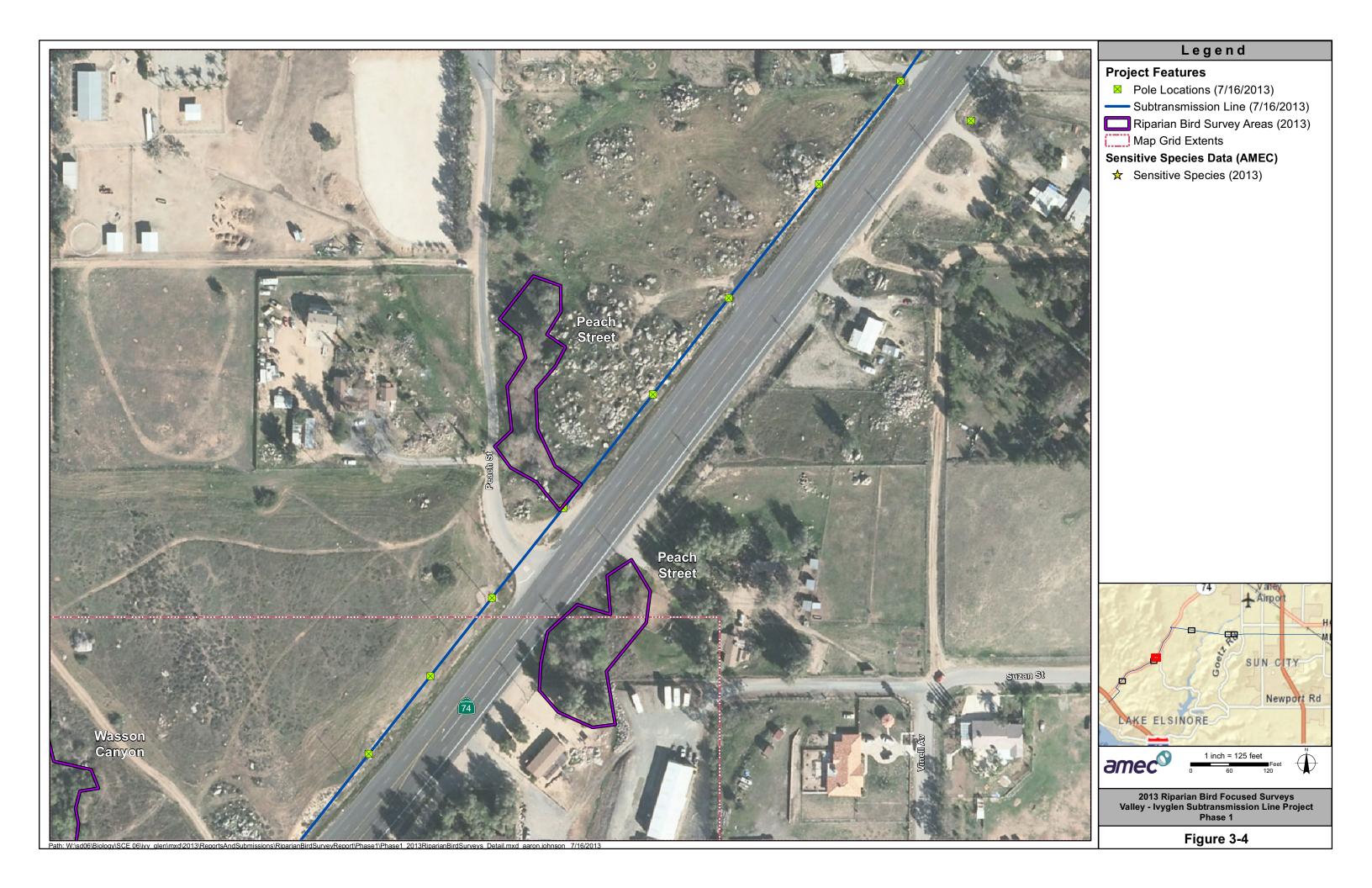
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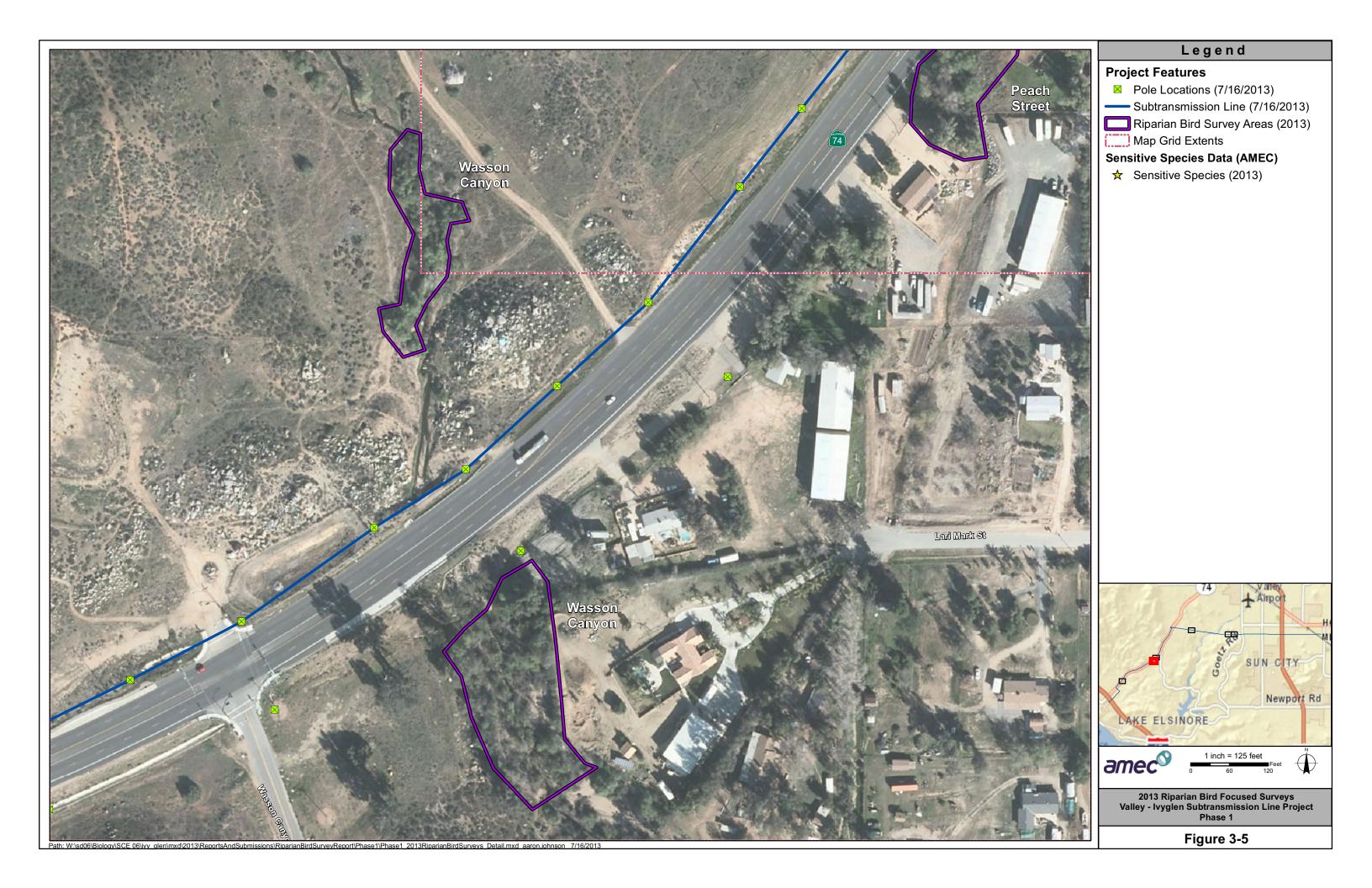


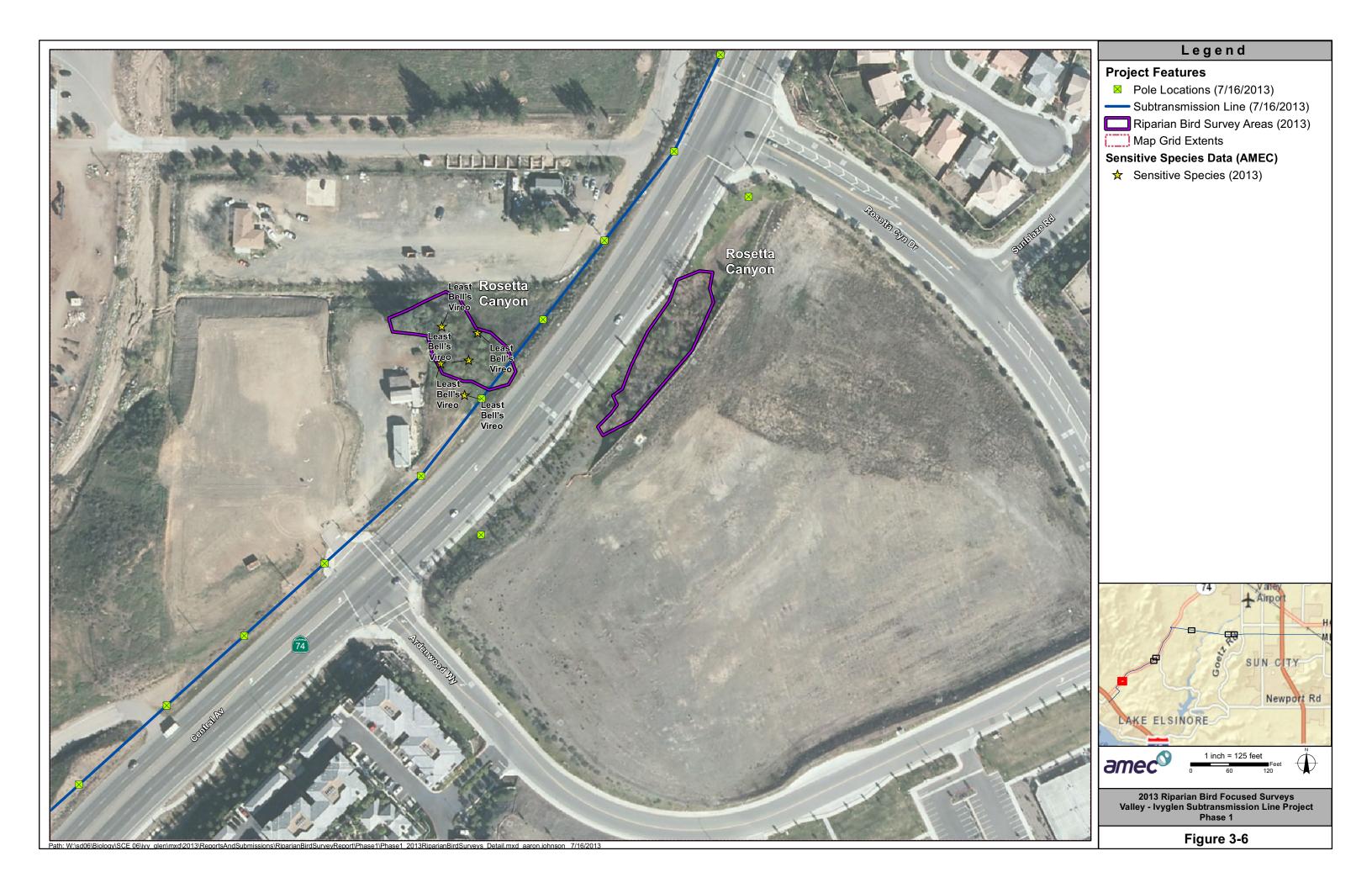














APPENDIX B BIRD SPECIES LIST





Appendix B Bird Species List

This list reports only bird species which were observed along the Phase I project alignment during 2013 focused riparian bird surveys. Nomenclature and taxonomy for birds observed on site follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

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

<u>BIRDS</u> <u>AVES</u>

New World Quail

California Quail

Bitterns and Herons

Great Blue Heron Great Egret Snowy Egret

American Vultures

Turkey Vulture

Hawks, Kites, Eagles

**Cooper's Hawk Red-shouldered Hawk Red-tailed Hawk

Plovers and Lapwings

Killdeer

Pigeons and Doves

*Rock Pigeon
*Eurasian Collared-Dove
Mourning Dove

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Odontophoridae

Callipepla californica

Ardeidae

Ardea herodias Ardea alba Egretta thula

Cathartidae

Cathartes aura

Accipitridae

Accipiter cooperii Buteo lineatus Buteo jamaicensis

Charadriidae

Charadrius vociferus

Columbidae

Columba livia Streptopelia decaocto Zenaida macroura

Cuculidae

Geococcyx californianus



Hummingbirds

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

Woodpeckers and Allies

Nuttall's Woodpecker Northern Flicker

Falcons

American Kestrel

Flycatchers

Black Phoebe Say's Phoebe Cassin's Kingbird Western Kingbird

Vireos

**Least Bell's Vireo

Jays, Magpies and Crows

American Crow Common Raven

Larks

**Horned Lark

Swallows

Northern Rough-winged Swallow Cliff Swallow

Long-tailed Tits and Bushtits

Bushtit

Wrens

House Wren Bewick's Wren

Thrushes

Western Bluebird

Mockingbirds, Thrashers, and Allies

Northern Mockingbird California Thrasher

Trochilidae

Archilochus alexandri Calypte anna Selasphorus sp.

Picidae

Picoides nuttallii Colaptes auratus

Falconidae

Falco sparverius

Tyrannidae

Sayornis nigricans Sayornis saya Tyrannus vociferus Tyrannus verticalis

Vireonidae

Vireo bellii pusillus

Corvidae

Corvus brachyrhynchos Corvus corax

Alaudidae

Eremophila alpestris

Hirundinidae

Stelgidopteryx serripennis Petrochelidon pyrrhonota

Aegithalidae

Psaltriparus minimus

Troglodytidae

Troglodytes aedon Thryomanes bewickii

Turdidae

Sialia mexicana

Mimidae

Mimus polyglottos Toxostoma redivivum



Starlings and Allies

*European Starling

Silky-flycatchers

Phainopepla

Wood-Warblers

Orange-crowned Warbler

Nashville Warbler MacGillivray's Warbler Common Yellowthroat

**Yellow Warbler

Black-throated Gray Warbler

Yellow-rumped Warbler

Wilson's Warbler

Emberizines

Spotted Towhee

**Southern California Rufous-crowned Sparrow

California Towhee Lark Sparrow Song Sparrow

White-crowned Sparrow

Cardinals and Allies

Western Tanager Blue Grosbeak

Blackbirds and Allies

Western Meadowlark Brewer's Blackbird Brown-headed Cowbird

Hooded Oriole Bullock's Oriole

Finches and Allies

House Finch Lesser Goldfinch American Goldfinch

Old World Sparrows

*House Sparrow

Sturnidae

Sturnus vulgaris

Ptilogonatidae

Phainopepla nitens

Parulidae

Oreothlypis celata
Oreothlypis ruficapilla
Geothlypis tolmiei
Geothlypis trichas
Setophaga petechia
Setophaga nigrescens
Setophaga coronata
Cardellina pusilla

Emberizidae

Pipilo maculatus

Aimophila ruficeps canescens

Melozone crissalis Chondestes grammacus Melospiza melodia Zonotrichia leucophrys

Cardinalidae

Piranga ludoviciana Passerina caerulea

Icteridae

Sturnella neglecta Euphagus cyanocephalus

Molothrus ater Icterus cucullatus Icterus bullockii

Fringillidae

Haemorhous mexicanus Spinus psaltria Spinus tristis

Passeridae

Passer domesticus





APPENDIX C SWF SURVEY FORMS



O.	SGS Qua	d Name Ro	malen	d			Ave. State CA County	40		(met	ers)
Cr	reek, Rive	er, Wetland, o	or Lake N an marke	lame un	neme	A and WIFL s	ightings attached (as requi	red)?		Yes 🗶 N	0
Su			art: E 4 op: E 6 es change	7894 7789 d betwee	4 n visits, er	N 3732 N 373 nter coordinate	UTM 2645 UTM UTM or each survey in comm nation on back of this	Datum Zone _ ents se	NAD 2	· 	
Obs	nrvey# server(s) Il Name)	PDT 2013 Date (m/d/y) Survey time 5ee Comments	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Co (this is individ	oordinat an optio uals, pai rvey). I	es for WIFL Dete nal column for do rs, or groups of b nclude additional	ocumenting irds found or
Surve		Date 20 May						# Birds	Sex	UTM E	UTM N
John		Start 0650 Stop 0850 Total hrs 2	0	4	0	\sim					
Mye	hen J.	Date 3 Jun Start 0440 Stop 0650 2h, 10m Total ars	A	0	-0	N 2		# Birds	Sex	UTM E	UTM N
Survey	er(s)	Date 19 Jun						# Birds	Sex	UTM E	UTM N
Gr	ren	Start O520 Stop 0735 24,15m Total firs	0	0	0	N		·			
Survey		Date 3 Jul	*	1.2 _{1.2} -		er Sageri		# Birds	Sex	UTM E	ñĭййи
1 .	ers	Start 0445 Stop 0715 2h, 30m Total hrs	0	0	0	N			* "wi'#".		× 12
Survey		Date/5 Jul						# Birds	Sex	UTM E	UTM N
My	ers	Start 0520 Stop 0800 24, 40m Total hrs	Ø	D	0	N					
Totals deach coloresident migrants	s, nestlings,	the sum of de only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycate	hers co	lor-ba	nded? Yes	No
individu	ful not to do	ouble count	0	0	0	0	If yes, report color combin section on back of form an	nation(nd repo	s) in th ort to U	e comments SFWS.	MA

32

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

Reporting	Individual J	ohn F.	Green		Ph	one# <u>951-369</u>	1-8060	
Affiliation	AMEC				E-	mail <i>john. F.</i>	ed 16 July 2013 Not Applicable	n
Site Name	Valley - 1	-vyglen r	Mase I, G	Inlower	A ve. Da	ite Report Complet	ed 16 July 2013	
Did you v	erify that this site	epievious year:	ent with that use	d in previous ve	are? Vec	No	Not Applicable	
If site nan	ne is different. w	hat name(s) was i	ised in the past?	a iii previous ye	ais. 10s_		Not Applicable	
		ear, did you surve			r? Yes	No I	f no, summarize below.	
		eneral area durin			Yes_	No If	no, summarize below.	
Managem Name of N	ent Authority for Management Enti	Survey Area: ity or Owner (e.g	Federal No., Tonto National	Iunicipal/Count I Forest)	y St <i>Ur</i>	ate Tribal _ Known	Private	
Length of	area surveyed: _	0.04 (km)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Vegetation	n Characteristics:	Check (only one	e) category that b	est describes th	e predomir	nant tree/shrub folia	ar layer at this site:	
	Native broadleaf	plants (entirely o	r almost entirely	, > 90% native)		୍ଣି ଅନ୍ତେଶ (ବିଧ	TOTAL POLICE	
	Mixed native and	exotic plants (m	ostly native, 50 -	90% native)		A STATE OF THE STA	- \$	
	Mixed native and	exotic plants (m	ostly exotic, 50 -	90% exotic)		n de Trat	A MODERN De Merchen	
F	Exotic/introduced	l plants (entirely	or almost entirely	y, > 90% exotic)	**************************************		
Identify th	ne 2-3 predomina	nt tree/shrub spec	cies in order of d	ominance. Use	scientific i	names. Salix 5	pp., Baccharis sal	ر ایک در
MANAGEMENT OF THE PARTY OF THE	***************************************							cirvia
Average h	eight of canopy ((Do not include a	range):	5	***************************************	(meters)		
WIFL detenests; 3) p	ections; 2) sketch hotos of the inter	or aerial photo s ior of the patch, e	howing site locat exterior of the pat	tion, patch shap ch, and overall	e, survey ro site. Descri	oute, location of an be any unique habi	survey site and location of y detected WIFLs or their itat features in Comments.	
features. Survey	Attach additional	sheets if necessa	Full Mar	ning, incl	ing surveys Inding	visits to	other patches.	
		aylight Tic				r		
				-		de la companya de la La companya de la co		
Territory S	Summary Table.	Provide the follo	wing informatio	n for each verif	ied territor	v at your site.		
Territory	All Dates	UTM E	UTM N	Pair	Nest	Description	of How You Confirmed	7
Number	Detected Detected	OTME	OTMIN	Confirmed? Y or N	Found? Y or N	Territory (e.g., vocalizati	and Breeding Status ion type, pair interactions, ittempts, behavior)	
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Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (http://www.fws.gov/southwest/es/arizona/) for the most up-to-date version.

aren eko jeon Kalifa ka					and the second of the second	d Detection Form (revised	and Francisco	and the second	3	
Site Name_ USGS Qua	Valley-I d Name_A	vygler Romal	n, Phasi and	e 1, Ala	nbaster	State CA Count Elevation	y Riv	9-5	ide (mete	 ers)
Creek, Rive	er, Wetland,	or Lake N	Vame	unnav	10A	ightings attached (as requi			Yes X N	
	=	-		-						
Survey Coc	St	op: E 4	不83	37	N 3732	UTM UTM UTM es for each survey in comm	Zone _	11	<u>-7</u> (See ilistruc	110115)
If surve	ey coordinate	es change	d betwee	n visits, er	ter coordinate	es for each survey in comm	ents se	ction	on back of this	page.
	2013		iii in ac		site injorn	nation on back of this			tes for WIFL Dete	
Survey # Observer(s) (Full Name)	PDT Date (m/d/y) Survey time See Camments	Number of Adult WIFLs	Estimate d 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, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	(this is individu	an optio ials, pa rvey).	onal column for do irs, or groups of b Include additional	ocumenting irds found on
Survey # 1 Observer(s)	Date 20 May						# Birds	Sex	UTM E	UTM N
John F. Green	Start 0650 Stop 0850 Total hrs 2	4	0	0	\vee					
urvey # 2	Date 3 Jun						# Birds	Sex	UTM E	UTM N
bserver(s) Stepten	Start 0440			_						
J. Myers	Stop 0650	0	0	4	N					
E804203	2h jom Total hrs		-		.* *					
urvey # 3	Date 19 Jun					7-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	# Birds	Sex	UTM E	UTM N
Observer(s)	Start Q520	2	1	2	A !					
Green	Stop 0735	4	10	0	/V					
	Total hrs /5m									
urvey # 4	Date 3 Jul		** ; .		1 (1)		# Birds	Sex	UTM E	ÜŢMŊ
Myers	Start 0445	a	0	a	h /					
, ,/(,3	Stop 0715		10	7	/V					
	Zh, 30m Total hrs									
urvey # 5	Date 15 Jul						# Birds	Sex	UTM E	UTM N
M.,	Start 0520	a	8	A	^/					
149613	Stop 0800	10			/ V					
	24,40m Total hrs									
overall Site Su		Total	Total	Total	Total	• 14			· · · · · · · · · · · · · · · · · · ·	<u> </u>
otals do not equal ach column. Inclu	de only	Adult	Pairs	Territories	Nests					
sident adults. Do aigrants, nestlings,		Residents				Were any Willow Flycate	hers co	lor-ba	nded? Yes	. No
edglings.					^	If yes, report color combir section on back of form ar				MA 1
e careful not to do	ouble count	0	1	4	4	section on back of form ar	ia repo	11 10 C	JSF W 3.	1
otal Survey Hrs_										
	ndividual J	ohn	F. G	rreen		Date Report Completed	16	J	uly 2013	

US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attack ment Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting	Individual Ja	ohn F.	Green		Ph	one # 951-369-8060	
Affiliation	Valley - T	uvalen F	Phase I Ala	abouter 1	E-: Da	mail john. F. green @ amec. te Report Completed 16 July 201	com
was this s	site surveved in a	previous vear?	Yes No	Unknown	 \$ 677.5.5 		,
Did you v	erify that this site	e name is consiste	ent with that used	l in previous ye		No Not Applicable	
		hat name(s) was u ear, did you surve				No If no, summarize below	_
		eneral area durin			Yes	No If no, summarize below.	,
	, *···	1 44 4 1 1 1	- A			5. T. W	
Managem	ent Authority for	Survey Area:	Federal M	lunicipal/Count	ty St	ate Tribal Private	
Name of r	vianagement Enti	ity or Owner (e.g	., Tonio National	rorest)	иг	IKMOWM	
Length of	area surveyed: _	0.05 (km)				
Vegetation	n Characteristics:	: Check (only one	e) category that b	est describes th	ne predomir	ant tree/shrub foliar layer at this site:	
1	Native broadleaf	plants (entirely o	r almost entirely,	> 90% native)		Total Transport	
1	Mixed native and	exotic plants (m	ostly native. 50 -	90% native)		Carlo Const.	
		• `	•			is the second of	
	Mixed native and	exotic plants (m	ostly exotic, 50 -	90% exotic)		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
I	Exotic/introduced	l plants (entirely	or almost entirely	, > 90% exotic	:)	$r_{i,j}$	
Identify th	o 2 3 prodomina	nt traa/shruh sna	rice in order of d	ominanao Ilaa	. gaiantifia :	names S. 186	
rucinity ii	ic 2-3 predomina	in tree/sinuo spec	les in order or di	Jillilance. Use	SCIENTIFIC I	names. Salix Spp., Baccharis	salicitolia
				5			-
Average h	eight of canopy ((Do not include a	range):			(meters)	
WIFL dete	ections; 2) sketch	or aerial photo s	howing site locat	ion, patch shap	e, survey ro	ey area, outlining survey site and location oute, location of any detected WIFLs or the be any unique habitat features in Commen	neir
Commonto	o (quali og atant on	nd and acondinate		f ahan and ann			4_4
features.	s (such as start at Attach additional	sheets if necessa	is of survey area.	ii changed ame	nig surveys	, supplemental visits to sites, unique habi	tat
Survey	times o	are for	Full MOT	ning, inc	luding	visits to other pater	<u>105</u> .
25	B 10.	2 1 1/2	<i>-</i>	<i>J</i>		žėst.	
101 =	- Yacific	Daylight	lime	4			and the same of th
						14 St. J. N.	_
							_
Territory S	Summary Table.	Provide the follo	wing information	n for each verif	ied territor	y 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 interaction nesting attempts, behavior)	
						, r · /a · · · ·	
					*	*. **	
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Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (http://www.fws.gov/southwest/es/arizona/) for the most up-to-date version.

ijakana di Seri	the figure group of the first terms of the first te	San	Willow	Flycate	her (WIF)	L) Survey an	d Detection Form (revised	l April	2010)		Ž
	Site Name USGS Quad	Valley-I	vygler aKe	i, Phasi Elsin	el, El	Freso	State CA Count Elevation	Rive 70	e)-51	de (met	ers)
1	Creek, Rive Is copy	er, Wetland, of USGS m	or Lake N <i>ap marke</i>	lame_ <i>Ur</i> ed with si	1 <i>1701110.</i> urvey area	of and WIFL s	ightings attached (as requi	ired)?		Yes X N	
,	Survey Coo	ordinates: Sta	art: E47	7539°	7	N 3733	UTM UTM UTM es for each survey in comm	Datum Zone		•	
	If surve	ey coordinate	s change	d betwee <i>Till in ac</i>	n visits, er dditiona	nter coordinate	es for each survey in comm nation on back of this	nents se	ction o	on back of this	page.
	Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time see	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories	Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	(this is individu	an optio uals, pai rvey). I	es for WIFL Dete onal column for de firs, or groups of b (nclude additional	ocumenting irds found on
	Survey # 1 Observer(s) John F. Green	Date 20 May Start 0650 Stop 0850 Total hrs 2	0	-0	A	V		# Birds	Sex	UTM E	UTM N
i jare	Survey # 2 Observer(s) Step Len J. Myers TE804203	Date 3 Jun Start 0440 Stop 0650 2h jorn Total hrs	D	0	4	N		# Birds	Sex	UTM E	UTM N
	Survey # 3 Observer(s) Green	Date 19 Jun Start 0520 Stop 0735 24/5m Total hrs/5m	0	D	D	Ν		# Birds	Sex	UTM E	UTM N
in Res	Survey #4 Observer(s) Myers	Date 3 Jul Start 0445 Stop 0715 24, 30 m Total hrs	0	A	0	\mathcal{N}		# Birds	Sex	UTM E	. UTMN
	Survey # 5 Observer(s)	Date 15 Jul Start 05 20 Stop 0800 21., 40 m. Total hrs	Ø	Ø	0	N		# Birds	Sex	UTM E	UTM N
	Overall Site Sur Totals do not equal each column. Includeresident adults. Do migrants, nestlings, fledglings.	the sum of le only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycate				_ No
	Be careful not to do individuals. Total Survey Hrs Reporting In	,35m	0	0	A reen	0	If yes, report color combin section on back of form at	nd repo	rt to U	JSFWS.	'YA

Reporting Individual John F. Green

Date Report Completed 16 July 2013

US Fish and Wildlife Service Permit # TE054011

State Wildlife Agency Permit # SC-001951 a Hack ment

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

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

		ohn F.	Green		Ph	one # <u>951-3</u>	<u>69-804</u>	.0	
Affiliation	nAMEC_			<u> </u>	E-	mail john. 7 ite Report Comp	groen	@amec.c	on
Site Name	e Valley - 1	C <i>vyglen F</i> a previous year?	hase I, El	Introve	Da	ite Report Comp	leted /6	July 2013	
		e name is consist				No	Not App	licable 🟏	
		hat name(s) was		im previous ye	ars: res <u>.</u> Issaula	1,40,	_ Not App.	incable X	
		ear, did you surve		al area this year		`_ No	If no, sum	marize below.	1/4
		general area durin				No			•
Managem Name of I	ent Authority for Management Ent	r Survey Area: ity or Owner (e.g	Federal N	Iunicipal/Count Forest)	ySt <i>Ur</i>	ate Triba	l Pri	vate	
Length of	area surveyed: _	<i>O. 03</i> (km	n)						
Vegetation	n Characteristics	: Check (only one	e) category that b	est describes th	e predomir	nant tree/shrub f	oliar layer a	t this site:	
1	Native broadleaf	plants (entirely o	r almost entirely,	> 90% native)		1.74	territ Red, 1, 1 e		
1	Mixed native and	l exotic plants (m	ostly native, 50 -	90% native)		· 50.	\$		
1	Mixed native and	l exotic plants (m	ostly exotic, 50 -	90% exotic)		1			
I	Exotic/introduced	d plants (entirely	or almost entirely	y, > 90% exotic)	1 5			
Identify th	ne 2-3 predomina	int tree/shrub spe	cies in order of d	ominance. Use	scientific 1	names. Salix	spp., E	Baccharis s	alicifolia
Average h	neight of canopy	(Do not include a	range):	5		(meters)			
WIFL dete	ections; 2) sketch	opy of USGS quadrates or aerial photo serior of the patch, e	howing site locat	ion, patch shape	e, survey ro	oute, location of	any detecte	d WIFLs or the	ir
							K.		
Comments	s (such as start ar	nd end coordinate	es of survey area	if changed amo	ng surveys	, supplemental y	isits to site	s, unique habita	it
Survey	Himes	I sheets if necessary Particular	Full Mar	ning, incl	uding	visits to	othe	- patch	<u> 2</u> 5.
DhT-	· D. o.l.P.	0 1.1+	T			* * * * * * * * * * * * * * * * * * *	2 1		•
101 -	- TACIFIC	Daylight	1/m/e	-		2 ⁻²			_
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Territory S	Summary Table.	Provide the follo	owing information	n for each verif	ied territor	y at your site.	al ļ		
Territory	All Dates	UTM E	UTM N	Pair	Nest	Description	n of How Y	ou Confirmed	
Number	Detected			Confirmed?	Found?		ry and Bree		
				Y or N	Y or N			pair interaction	s,
						nestin	g attempts,	behavior)	
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USGS Quad	d Name er, Wetland, o	KE E	Single	110000	ned	State CA Count Elevation	00		(met	ers)
			ed with si	urvey area	and WIFL s	ightings attached (as requi	red)?		Yes_X N	o
	ordinates: Sta Sta ey coordinate	р: Е <u>4</u>	72617	L_	N 3730 N 3730 nter coordinate	997 UTM 803 UTM UTM es for each survey in comm	Datum Zone _ ents se	NAD:	27(See instruc	tions)
						nation on back of this				
Survey # Observer(s) (Full Name)	2013 PDT Date (m/d/y) Survey time see comments	Number of Adult WIFLs	Estimate d 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	(this is individ	an optiouals, pa	tes for WIFL Dete onal column for do irs, or groups of b Include additional	ocumenting irds found o
Survey # 1	Date 20 May						# Birds	Sex	UTM E	UTM N
John F. Green	Start 0650 Stop 0850 Total hrs 2	0	4	0	\sim					
Survey # 2		,				• • • • • • • • • • • • • • • • • • • •	# Birds	Sex	UTM E	UTM N
Observer(s) Stephen J. Myers TE804203	Start 0440 Stop 0650 2h 10m Total his	A-	4	4	N			36X		
Survey # 3	Date 19 Jun						# Birds	Sex	UTM E	UTM 1
Observer(s) Green	Start Q520 Stop Q735 24,/5m Total hrs	0	0	0	N					
Survey # 4	Date 3 Jul	1	'a' a a		of the state		# Birds	Sex	UTM E	. UŢM î
Observer(s) Myers	Start 0445 Stop 0715 24, 30 m Total hrs	0	0	0	N	<u> </u>		23.5	3 1 1 1 2 2	
Survey # 5	Date 15 Jul						# Birds	Sex	UTM E	UTM 1
Observer(s)	Start 05 20 Stop 0800 24 400 Total hrs	D	D	0	N					
Overall Site Sur Totals do not equal each column. Include resident adults. Do migrants, nestlings,	mmary the sum of le only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatel	hers co	lor-ba	nded? Yes	
fledglings. Be careful not to do individuals.		0	0	0	0	If yes, report color combir section on back of form ar				N/A
Total Survey Hrs	h.,35m.									

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

Affiliation AMEC Site Name Val(P) Tuyglen Phase 1, Peach 5f. Date Report Completed 16 July 2013 Was this site surveyed in a previous year? Yes No Unknown Did you verify that this site name is different, what name(s) was used in the past? 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: 1.22 (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% axotic) Mixed native and exotic plants (mostly native, 50 - 90% axotic) Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp. Baccharis salicidal of Mixed native and exotic 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 salicidal of Mixed native and exotic plants (mostly name) Average height of canopy (Do not include a range): 7— (motters) Attach the following: 1) copy of USGS quadropographical 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 nest; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features. Attach additional sheets if necessary. Solvey Hiraes are following information for each verified territory at your site. Territory Summary Table. Provide the following informat		Individual J	ohn F.	Green		Ph	one # <u>951 - 369 -</u>	8060	
Was this site surveyed in a previous year? Yes. No Not Applicable If site name is different, what name(s) was used in the past? If site name is different, what name(s) was used in the past? Yes No If no, summarize below. If site was surveyed last year, did you survey the same general area during each visit to this site 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. What name of Management Entity or Owner (e.g., Tonto National Forest) UnKnown	Affiliation	AMEC	7	3/ 1 /3		E-1	mail john. t. gr	een @ amec.com	4
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 name is different, what name(s) was used in the past? 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. If no, su	Was this	site surveyed in a	nrevious year?	MASE 1, M Ves (No.	Unknown	Da	te Report Completed	16 July 2013	
If site manner is different, what name(s) was used in the past? If site was surveyed last year, idd you survey the same general area this year? Yes No If no, summarize below. He not was the past of the past o	Did you v	erify that this site	e name is consist	ent with that used	l in previous ve	ars? Yes	No No	t Applicable	
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 Mamicipal/County State Tribal Private Mame of Management Entity or Owner (e.g., Tonto National Forest) Length of area surveyed: 0.22 (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 exotic, 50 - 90% exotic) Exotic/introduced plants (entirely or almost entirely, > 90% exotic) Exotic/introduced plants (entirely or almost entirely, > 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 saliciblia, Average height of canopy (Do not include a range): 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 serial 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. Survey Himes gree fare Full Maring, Including wishs to other patchage. PDT = Pac/Fice Daylight Tiruse Territory Summary Table. Provide the following information for each verified territory at your site. Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)							with the same of t		
Management Authority for Survey Area: Federal Municipal/County State Tribal Private Mame of Management Entity or Owner (e.g., Tonto National Forest) Length of area surveyed: 9.22 (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 exotic, 50 - 90% exotic) Exotic/introduced plants (entirely or almost entirely, > 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 saliziblia Average height of canopy (Do not include a range): 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 exterior of the patch, exterior of the patch, exterio									
Length of area surveyed: Q. 22 (km)	Did you s	urvey the same g	eneral area durin	g each visit to the	is site this year	? Yes_	No If no	, summarize below.	
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 spp., Bacchar's salicifalia Average height of canopy (Do not include a range): 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 habital features. Attach additional sheets if necessary. 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. Survey + hares are for Full rapraing, including visits to other patches. PDT = Paclific Daylight Times Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Confirmed? Territory and Breeding Status (e.g., vocalizations, nesting attempts, behavior)	Managem Name of M	ent Authority for Management Enti	Survey Area: ity or Owner (e.g	Federal M	funicipal/Count Forest)	tySt	ate Tribal	Private	
Mixed native and exotic plants (mostly native, 50 - 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., Bacchar's saliciality (meters) Average height of canopy (Do not include a range): 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 rotte, location of any detected WIFLs or their nessts; 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. Survey Himes are far Full marring, including visits to other patches. PDT = Paclific Daylight Time. Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Nest Confirmed? Yor N Yor N (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Length of	`area surveyed: _	<i>0.2</i> 2_ (km	n)					
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 salicifalia Average height of canopy (Do not include a range): (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. Survey Himes are for Full marring, including visits to other patches. PDT = Paclific Daylight Time. Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Nest Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Vegetation	n Characteristics:	: Check (only one	e) category that b	est describes th	ne predomin	ant tree/shrub foliar la	ayer at this site:	
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., Bacchar's salicifilia Average height of canopy (Do not include a range): ———————————————————————————————————	1	Native broadleaf	plants (entirely o	r almost entirely,	, > 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., Bacchar's salicifilia (meters). Average height of canopy (Do not include a range): ———————————————————————————————————	1	Mixed native and	exotic plants (m	ostly native, 50 -	90% native)		1987 W.		
Average height of canopy (Do not include a range): 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. Survey times are for Full marking, including visits to other patches. PDT = Pacific Daylight Time Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Nest Description of How You Confirmed Territory and Breeding Status Observed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	1	Mixed native and	exotic plants (m	ostly exotic, 50 -	90% exotic)		(1994) 1194		
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. Survey +imes are for Full marring, including visits to other patches. PDT = Pacific Daylight Time Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates Detected UTM E UTM N Pair Confirmed? Found? Yor N Yor N Yor N (e.g., vocalization type, pair interactions, nesting attempts, behavior)							* 4		
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. Survey Firnes are for Full ryarning, including visits to other patches. PDT = Pacific Daylight Time Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Confirmed? Found? Yor N Yor N Por N Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Identify th	ne 2-3 predomina	nt tree/shrub spec	cies in order of d	ominance. Use	scientific 1	names. Salix spp	., Backharis salie	cifolia
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. Survey +i-mes gre for Full rypring, including wisits to sites, unique habitat features. Attach additional sheets if necessary. Survey +i-mes gre for Full rypring, including wisits to sites, unique habitat features. Attach additional sheets if necessary. Survey +i-mes gre for Full rypring, including wisits to sites, unique habitat features in Comments. Territory Summary Table. Provide the following information for each verified territory at your site. Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Average h	neight of canopy ((Do not include a	range):	7	-	(meters)		
Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Nest Confirmed? Found? Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	WIFL detenests; 3) p	ections; 2) sketch hotos of the inter	or aerial photo s ior of the patch, e	howing site locat exterior of the pat	ion, patch shap ch, and overall	e, survey ro site. Descri	bute, location of any d be any unique habitat	etected WIFLs or their features in Comments.	
Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates UTM E UTM N Pair Nest Confirmed? Found? Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)					<i>J</i> ,		32.2		
Territory Summary Table. Provide the following information for each verified territory at your site. Territory Number Detected Detected Provide the following information for each verified territory at your site. Confirmed? Found? Found? Y or N Y or N Y or N (e.g., vocalization type, pair interactions, nesting attempts, behavior)	YDT =	Pacific	Daylight	Time				******	
Territory Summary Table. Provide the following information for each verified territory at your site. Territory All Dates Detected Confirmed? Found? Y or N Y or N Y or N Y or N Pair Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)						****			
Territory All Dates UTM E UTM N Pair Nest Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)								P	
Number Detected Confirmed? Y or N Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Territory S	Summary Table.	Provide the follo	wing information	n for each verif	ied territor	y at your site.		
Number Detected Confirmed? Y or N Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)	Territory	All Dates	UTM E	UTM N	Pair	Nest	Description of H	How You Confirmed	1
		Detected			Confirmed?	Found?	Territory and (e.g., vocalization	l Breeding Status type, pair interactions,	
			·						
							-		
							Lange All Control		
	for an art		;		-				

	Site Name	Valley-I	vygler	1, Phas	e 1, Wa	ssan Cy	State CA Count Elevation	y <u>Riv</u>	أوسرج	de	
	Creek, Rive	er, Wetland, o	or Lake N	Jame	UMMA	nel					ers)
		-	-		-		ightings attached (as requi			Yes <u>X</u> N	
	Survey Coo	ordinates: Sta	rt: E <u></u> 4	723	39	N 373	0799 0494 UTM es for each survey in comm	Datum	NADS	27 (See instruc	tions)
	If over	Sto	op: E <u>4</u>	724	2.5	N 373	0494 UTM	Zone _	11_		
	II Suive	ey coordinate	s change	ill in a	dditional	l site inforn	nation on back of this	nage	cuon (on back of this	page.
		2013					Comments (e.g., bird behavior;			es for WIFL Dete	ctions
	Survey # Observer(s) (Full Name)	PDT Date (m/d/y) Survey time	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL	(this is individ	an optic ials, pai rvey). I	onal column for do irs, or groups of b include additional	ocumenting irds found or
		comments					coordinator				
	Survey # 1 Observer(s)	Date 20 May					Brown-headed	# Birds	Sex	UTM E	UTM N
	John F.	Start 0650	A	A	A	^/	Cowbiand	ļ			
	Green	Stop 0 350		- 4)		10	Mewel				
		Total hrs 2									
	Survey # 2	Date 3 Jun						# Birds	Sex	UTM E	UTM N
6	Observer(s)	Start 0440	, , , , ,	_	_						
	J. Myers	Stop 0650	A-	0	4	N					
	TE804203	2h, lom Total hrs									
	Survey # 3		***************************************					# Birds	Sex	UTM E	UTM N
	Observer(s)	Date 19 Jun				*		# Dirus	Sex	OIME	OIMIN
	Green	Start 0520	A	a	A	٨١					
		Stop 0735	7	74		/ V	:				
		Total hrs /5m						 -			
e e	Survey # 4	Date 3 Jul	*::					# Birds	Sex	UTM E	. UTM N
	Observer(s)	Start 0445				,					
	Myers	Stop 0715	1	4	4	\mathcal{N}				<u> </u>	
		24, 30 m Total hrs				·					
		l otal nrs									
	Survey # 5 Observer(s)	Date 15 Jul						# Birds	Sex	UTM E	UTM N
		Start 0520	0	a	2	Λ/					
	Myers	Stop 0800	20	20		/ V					
	•	26,90m Total hrs									
	Overall Site Sur Totals do not equal each column. Inclu- resident adults. Do migrants, nestlings,	the sum of de only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycate	hers co	lor-ba	nded? Yes	_ No
	fledglings. Be careful not to do individuals.	ouble count	0	0	0	0	If yes, report color combin section on back of form ar				'YA
	Total Survey Hrs	h, 35m,									
•		ndividual J	4.0	F. G	reen		Date Report Completed	16	7	uly 2013)

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Affiliation	g Individual Jane AMEC	ohn F. C	Green	2554- 6-1	Pho E-:	one # <u>951-369-8</u> mail john. F. gr	8060 een @amec.com	n
Was this a Did you w	site surveyed in a verify that this sit	prévious year? e name is consiste hat name(s) was u	Yes No No No used in the past?	Unknown I in previous ye	ears? Yes	No Not	8060 een € arnec .cor 16 July 2013 Applicable	
If site was	s surveyed last ye	ear, did you surve eneral area durin	y the same gener	al area this yea	r? Yes_	No If no If no	, summarize below. , summarize below.	
		Survey Area: ity or Owner (e.g.				ate Tribal Known	Private	
Length of	area surveyed: _	0.32 (km)					
Vegetatio	n Characteristics	: Check (only one	e) category that b	est describes th	ie predomin	ant tree/shrub foliar la	ayer at this site:	
		plants (entirely o		· ·		Contraction of the second		
	Mixed native and	l exotic plants (m	ostly native, 50 -	90% native)			e e e e e	
]	Mixed native and	exotic plants (mo	ostly exotic, 50 -	90% exotic)			in the second of	
		l plants (entirely	•		•	• •		
Identify th	ne 2-3 predomina	nt tree/shrub spec	cies in order of de	ominance. Use	scientific r	names. Salix Spp.	., Baccharis sali	cifolia
Average h	neight of canopy	(Do not include a	range):	12		(meters)		
WIFL det	ections; 2) sketch	or aerial photo s	howing site locat	ion, patch shap	e, survey ro	oute, location of any de	ey site and location of etected WIFLs or their features in Comments.	
Comment features.	s (such as start an Attach additional	nd end coordinate	s of survey area area.	if changed amo	ong surveys	supplemental visits to	o sites, unique habitat	
				119, 1110	i dui ing	V'317 S (:0) 301		
701 -	- 70(1410	Daylight	1 /m/le	,			2778 3	
	·	Provide the follo						7
Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Territory and (e.g., vocalization	low You Confirmed Breeding Status type, pair interactions, npts, behavior)	
<u> </u>					:	·		
		_		:				
		a -		.~				

	USGS Qua	d Name La	Ke E	Isinar	•	· /·	State CA County Elevation 4	25		(met	ers)
	Creek, Rive	er, Wetland,	or Lake N	lame	UNDA	ned	-1.2. 44 1 1 1 (7/ 9		Y . 16 N	
							ightings attached (as requi			Yes <u>X</u> N	
	Survey Coo	ordinates: Sta	art: E 4	6984	4	N 3+2°	UTM UTM UTM utm	Datum	NADI	27 (See instruc	tions)
	If surve	Ste ev coordinate	op: E_ <i>9</i>	6999 d betwee	n visits er	N 342	1143 UTM	Zone _ ents se	ction (n back of this	nage
	II Jul V	cy coordinate	**F	ill in a	dditional	l site inforn	nation on back of this	page	**	on back of this	page.
		2013					Comments (e.g., bird behavior;			es for WIFL Dete	ctions
	Survey#	PDT	Number	Estimate	Estimated	Nest(s) Found?	evidence of pairs or breeding;			onal column for do	
	Observer(s)	Date (m/d/y) Survey time	of Adult	d Number	Number of	Y or N	potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If	each su	rvey). l	include additional	
	(Full Name)	see	WIFLs	of Pairs	Territories	If Yes, number of nests	Diorhabda found, contact USFWS and State WIFL	necessa	ry.		
		comments					coordinator				
	Survey # 1 Observer(s)	Date 20 May						# Birds	Sex	UTM E	UTM N
	John F.	Start 0650	a	a-	12	. /					
	Green	Stop 0 850	~	4)	-0	\wedge					
		Total hrs 2									
	Survey # 2						· · · · · · · · · · · · · · · · · · ·	# Birds	Sex	UTM E	UTM N
	Observer(s)	Date 3 Jun	e y server								
	Stephen	Start 0440	2	a	1	N					
	J. Myers	Stop 0650	4	4,		1 4					
	TE804203	2h, lom Total hrs									
	Survey # 3	Date 19 Jun						# Birds	Sex	UTM E	UTM N
	Observer(s)	Start Q520									
	Green		4	1	0	$ \mathcal{N} $					
		Stop 0735 24,/5m									
	0 "4		-				V 2				
.51	Survey # 4 Observer(s)	Date 3 Jul	*1.					# Birds	Sex	UTME	UTM
	Myers	Start 0445	a	2	1	N /	: <u></u>		, -		<u> </u>
ı	1 / (1)	Stop 0715		1	7	/V					
		Stop 0715 24, 30 m Total hrs									
	Survey # 5	Date /5 Jul						# Birds	Sex	UTM E	UTM N
	Observer(s)					,					
	Myers	Start 0520	a	a	0	$\mid N \mid$					
	7.19.1.2	Stop 0810 2h,40m		/ ~		, ,					
		Total hrs									
l	Overall Site Sur		Total	Total	Total	Total					
	Totals do not equal each column. Inclu-	de only	Adult	Pairs	Territories	Nests					
	resident adults. Do migrants, nestlings,		Residents				Were any Willow Flycatch	ners co	lor-ba	nded? Yes	_ No
	fledglings.				_	_	If yes, report color combin				N/A
	Be careful not to do	ouble count	A	D	0	0	section on back of form ar	id repo	rt to U	JSFWS.	['1
	individuals. 11 h.	,35m	4								
l	Total Survey Hrs										

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

Reporting	Individual J	ohn F.	Green	- Andrews	Pho	one # <u>951-3</u>	69-8	060	
Affiliation	HMEC	Tulplen E	21.20 1 00	5041. (E-1	nail John. 7	i, gre	en @amec.co 16 July 2013 Applicable	m
Was this	site surveyed in a	prévious year?	Yes -/ No	Unknown	Da	te Report Com	pieieu	16 July 2013	
Did you v	erify that this site	e name is consist	ent with that used	l in previous ye	ars? Yes	No	Not A	Applicable	
If site nan	ne is different, w	hat name(s) was i	used in the past?_	· · · · · · · · · · · · · · · · · · ·	\$ 1. W. 1			11	
		ear, did you surve			r? Yes_		If no,	summarize below.	
Did you s	urvey the same g	eneral area durin	g each visit to thi	s site this year?	Yes _	No	If no,	summarize below.	
Mana 2200		. C.	Talana N					n : .	
Mama of I	ent Authority for	Survey Area: ity or Owner (e.g	Tento National	(unicipal/Count	y St	ate Inba	al	Private	
Ivanic of i	vianagement Em	ity of Owner (c.g	., Tonto Ivational	Torest)	UIT	KITUVII			
Length of	area surveyed: _	0./6 (km	1)						
Vegetatio	n Characteristics	: Check (only one	e) category that b	est describes th	e predomin	ant tree/shrub	foliar lay	ver at this site:	
1	Native broadleaf	plants (entirely o	r almost entirely,	> 90% native)		i er y Norde	des i		
]	Mixed native and	l exotic plants (m	ostly native, 50 -	90% native)			Carry.		
1	Mixed native and	l exotic plants (m	ostly exotic 50 -	90% exotic)					
	viinod flati vo affa	coolic plants (iii	ostry exotic, so	5070 execte)		•	. 1		
]	Exotic/introduced	d plants (entirely	or almost entirely	γ , $> 90\%$ exotic)	• •			
Identify th	ne 2-3 predomina	nt tree/shrub spec	cies in order of de	ominance. Use	scientific r	names. Salix	SPP.	, Baccharis sa	licifolia
		· · · · · · · · · · · · · · · · · · ·		10			144		
Average h	eight of canopy	(Do not include a	range):	10		(meters),	V., 23		
WIFL det	ections; 2) sketch	or aerial photo s	howing site locat	ion, patch shape	e, survey ro	ute, location of	fany det	y site and location of ected WIFLs or their eatures in Comments.	
		-	_				· ·	* * * * * * * * * * * * * * * * * * * *	
Comment	s (such as start ar	nd end coordinate	es of survey area	if changed amo	ng surveys	, supplemental	visits to	sites, unique habitat	
features.	Attach additional	l sheets if necessa	Full mar	ning incl	Indias	visite to	· ot	her patches	-
OUI VG7	1777CG	91. C 7-01	7 - 117 7 - 147 7	11.19, 11.101	401111	V13/13 (;a	· · · · · ·	Mes 10472465	**
PDT =	Pacific	Daylight	Time				* :	Eyw.,	
		1.0.				\$6. <u>{</u>	4.0		
						7.24	SE 1500		
Territory S	Summary Table.	Provide the follo	owing information	n for each verif	ied territory	at your site.	· 1		-
Territory	All Dates	UTM E	UTM N	Pair	Nest	Descripti	on, of Ho	ow You Confirmed	
Number	Detected			Confirmed? Y or N	Found? Y or N	Territo (e.g., vocali	ory and l zation ty	Breeding Status ype, pair interactions,	
						nestii	ng attem	pts, behavior)	_
							i de		
					ta serie		******	***************************************	7
1 25 25									



APPENDIX D CERTIFICATION





Appendix D Certification Statement for the United States Fish and Wildlife Service

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

Signed:		
Date:		
Signed:		
Date:		
Signed:		
Date:		





APPENDIX E PHOTOGRAPHS



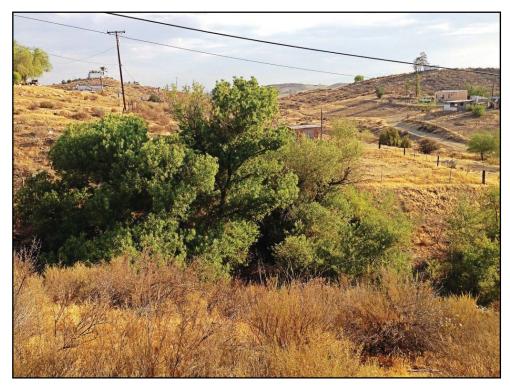


Photograph 1: Goldenrod Avenue survey area.

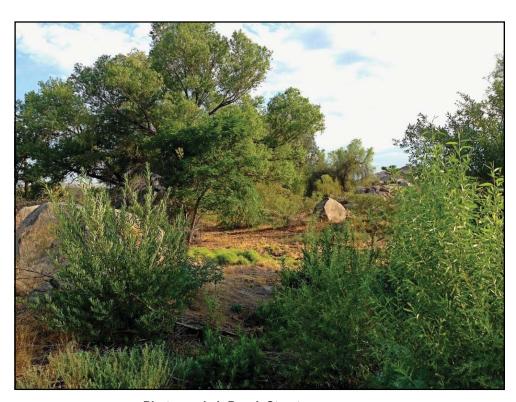


Photograph 2: Alabaster Loop survey area.



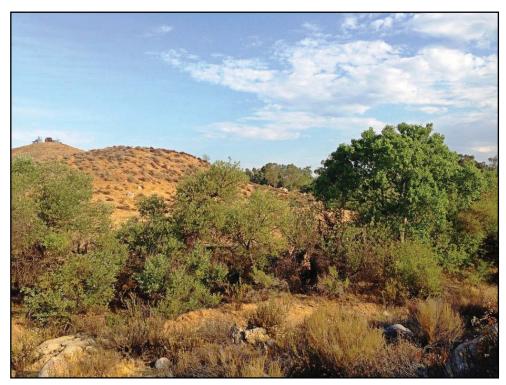


Photograph 3: El Freso survey area.



Photograph 4: Peach Street survey area.





Photograph 5: Wasson Canyon survey area.



Photograph 6: Rosetta Canyon survey area. A Least Bell's Vireo was detected here.

