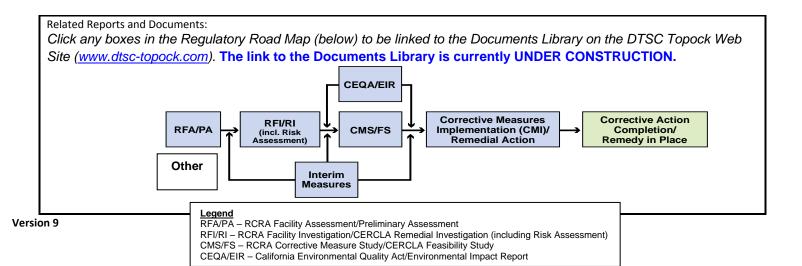
Topock Project I	Executive Abstract					
Document Title:	Date of Document: September 28, 2009					
2009 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station Needles, California	Who Created this Document?: (i.e. PG&E, DTSC, DOI, Other) PG&E					
Submitting Agency/Authored by: BLM, USFWS						
Final Document? 🛛 Yes 🗌 No						
Priority Status: HIGH MED & LOW Is this time critical? Yes No	Action Required: ☑ Information Only ☐ Review & Comment					
Type of Document: ☐ Draft ☐ Report ☐ Letter ☐ Memo	Return to: By Date:					
Other / Explain:	Other / Explain:					
What does this information pertain to? Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA) RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment) Corrective Measures Study (CMS)/Feasibility Study (FS) Corrective Measures Implementation (CMI)/Remedial Action California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR) Interim Measures Other / Explain: Programmatic Biological Assessment (PBA) What is the consequence of NOT doing this item? What is the	Is this a Regulatory Requirement? ☑ Yes ☐ No If no, why is the document needed? Other Justification/s:					
consequence of DOING this item?	Permit Other / Explain:					
This annual report is required by the approved PBA. Not performing the survey and preparing this report constitute non-compliance with the PBA.						
Brief Summary of attached document:						
The 2009 Southwestern Willow Flycatcher Presence/Absence Surveys Report presents the finding of the five Southwestern Flycatcher (SWFL) protocol surveys conducted between May and July 2009 in areas near the PG&E Topock Compressor Station. One pair of SWFL was confirmed during the 2009 survey. This detection was most likely transient. The survey results indicate that these survey sites provide habitat as stopover points for SWFL during migration. Written by: PG&E						
Recommendations:						
This report is for information only.						
How is this information related to the Final Remedy or Regulatory Req	uirements:					
The annual survey and this report fulfill the requirement of project ma	nagement Measure 26 of the PBA					
Other requirements of this information? None						





Yvonne J. Meeks Manager

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September 28, 2009

Ms. Cathy Wolff-White U.S. Department of the Interior Bureau of Land Management 2610 Sweetwater Avenue Lake Havasu City, AZ 86406

Subject: 2009 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Dear Ms. Wolff-White:

This letter transmits the 2009 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. This report was prepared in conformance with the Programmatic Biological Assessment, general project management measure 26, and includes information on the 2009 annual field survey for the southwestern willow flycatcher (SWFL) on lands near the PG&E Topock Compressor Station. The survey was conducted by Garcia and Associates (GANDA), and followed protocols established by the U.S. Fish and Wildlife Service. One pair of SWFL was detected in June from call point 4F while surveying call point 4D. This detection was most likely a transient pair since there were no detections after the second survey period. These results indicate that these survey sites provide habitat as stopover points for SWFL during migration.

If you have any questions, please do not hesitate to contact me at (805) 546-5243.

Sincerely,

Yvonne Meeks

Topock Remediation Project Manager

Geonne Meks

Cc: Carrie Marr / USFWS

Aaron Yue / DTSC David Elms / CDFG

Rebecca Davidson / ADGF Rob Knutson / PlaidLogic

Enclosure





Prepared By:

Garcia and Associates
1 Saunders Avenue
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GARCIA and ASSOCIATES

NATURAL & CULTURAL RESOURCE CONSULTANTS



2009 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Prepared by:

Garcia and Associates

Prepared for:

CH2M HILL, Inc. and

Pacific Gas & Electric Co.

September 2009

Table of Contents

Introduction	
Site Description	1
Vegetation and Habitat Quality	1
Survey Methods	
Results	
Conclusions	8
References	8
Figures	
Figure 1. Survey sites and call points	2
Figure 1. Survey sites and call points Figure 2. Additional habitat surveyed on the southwest side of Site 4	
	4
Figure 2. Additional habitat surveyed on the southwest side of Site 4	4 4 5

Appendices

Appendix A: Photo Log Appendix B: Incidental Plant and Vertebrate Species

Appendix C: Survey Forms

Appendix D: Call Points and UTM Coordinates

Introduction

Under contract to CH2M HILL, Garcia and Associates (GANDA) conducted a protocol survey for the southwestern willow flycatcher (SWFL) (*Empidonax traillii extimus*) for Pacific Gas and Electric (PG&E) near the Topock Compressor Station, 15 miles southeast of Needles, California. The purpose of the survey was to determine the presence or absence of the federally and State of California threatened SWFL. This is the fifth year that GANDA has conducted these surveys (GANDA 2005-2008). All surveys were conducted following the survey protocol outlined in *A Southwestern Willow Flycatcher Natural History and Survey Protocol* (Sogge *et al.* 1997) and the changes outlined in the 2000 U.S. Fish and Wildlife Service (USFWS) revision (USFWS 2000). This report fulfills general project management Measure 26 of the Programmatic Biological Assessment (PBA) (CH2M HILL 2007). Measure 26 states:

Riparian areas surrounding the proposed action site and subject to influence of operations and maintenance activities shall be surveyed for southwestern willow flycatcher according to the protocol established by the USFWS. These surveys shall be completed each year by a biologist permitted by the USFWS to carry out flycatcher surveys until the action has been completed and all facilities have been removed. Reports shall be provided to the biologists in the BLM Lake Havasu Field Office on an annual basis.

Site Description

The survey area consists of seven sites near the Topock Compressor Station. The sites are located along either side of the Colorado River. Six sites are in San Bernardino County, California, and one site is in Mohave County, Arizona. The Arizona site, the largest of the sites, is in the USFWS Havasu National Wildlife Refuge (Site A, Figure 1). Three of the California sites are on Bureau of Land Management (BLM) land (Sites 3, 4 and 6, Figure 1), two sites are in the Moabi Regional Park (Sites 1 and 2, Figure 1), and one site is in the California portion of the Havasu National Wildlife Refuge (Site 5, Figure 1). Survey sites total approximately 80 acres and vary in elevation from 400 to 500 feet above sea level. None of the survey sites are located within USFWS designated critical habitat for the SWFL (USFWS 2005).

Vegetation and Habitat Quality

The most abundant plant species in the survey area include salt cedar (*Tamarix ramosissima*), coyote willow (*Salix exigua*), catclaw acacia (*Acacia greggii*), arrowweed (*Pluchea sericea*), and palo verde (*Cercidium microphyllum*). Salt cedar is the dominant species throughout the survey area, often forming dense thickets over eight feet in height. A complete list of the plant species observed is included in Appendix B.

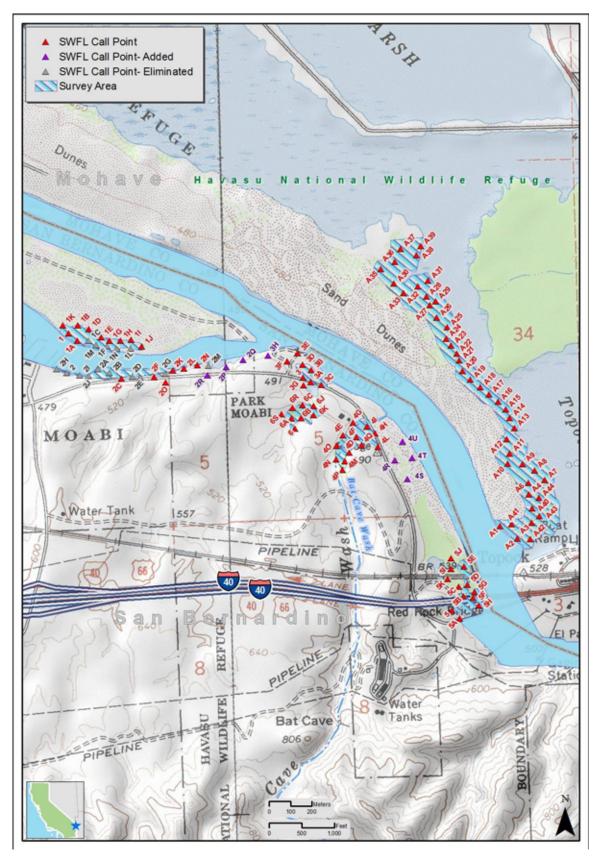


Figure 1. Survey sites and call points

Habitat Quality

Overall, the survey area is of moderate habitat quality for SWFL. The Colorado River provides standing surface water throughout the breeding season and includes a suitable vegetation composition; however, habitat fragmentation and human disturbance detract from the overall habitat quality. The California sites (Figure 1) are small and geographically isolated by the surrounding desert, Park Moabi Drive, and the Colorado River. Additionally, the proximity of the California sites to Park Moabi, Interstate 40, the Burlington Northern Santa Fe (BNSF) Railway, and the PG&E Topock Compressor Station results in a high level of human disturbance. The Arizona site (Figure 1) is located on a large peninsula and is generally bordered by contiguous riparian habitat and bulrush-dominated marsh. However, this site is also adjacent to the Topock Marina, a community that includes a dozen houses and several businesses. Watercraft, frequently observed on the Colorado River and in the Topock Marsh, contribute to human disturbance at this location. A photo of each survey site is included in Appendix A.

Survey Methods

GANDA wildlife biologist Jeff Steinman (USFWS permit #TE-085026-3, AZGFD Permit #SP-597467, and CDFG Permit SC-007801) conducted the SWFL surveys, following the protocol outlined by Sogge *et al.* (1997) and the protocol revision prepared by the USFWS (USFWS 2000). The protocol revision for project-related surveys recommends that five surveys be conducted during three survey periods, with three of the surveys occurring within the last survey period. These three survey periods are May 15 to 31, June 1 to 21, and June 22 to July 17. Mr. Steinman conducted the SWFL surveys from May 19 to 22, June 2 to 5, July 1 to 3, July 8 to 10, and July 15 to 17. All surveys were conducted between 0500 and 1000 hours. Completed survey forms for each site are included in Appendix C.

The habitat quality of the survey sites and the area surrounding them has been reassessed each year during the first survey period. The reassessment consists of observing each site for an increase or decrease in habitat due to an increase in size and density of vegetation or the elimination of habitat due to vegetation removal. The area surveyed in 2009 was the same area surveyed in previous years with the following exceptions:

- Call points were eliminated in locations where vegetation had been removed by Moabi Regional Park.
 - o Call points 2 and 2H (eliminated in 2006)
 - o Call points 1L, 1N, 1F, 1M,1C, 2I, 2J, 2A, 2B, 2D, 2E, 2G, and 2M (eliminated in 2008)
- Call points 2P, 2Q, 2R, 3H, 4R, 4S, 4T, and 4U were added in 2009, where habitat quality around sites 2, 3, and 4 (Figures 2-4) improved due to an increase in the size and density of the vegetation.



Figure 2. Additional habitat surveyed on the southwest side of Site 4.



Figure 3. Additional habitat surveyed on the north side of Site 3.



Figure 4. Additional habitat surveyed on the west side of Site 2.

The survey method consisted of using an MP3 player and speaker system to broadcast SWFL calls from established call points. Call points were originally established in the field using aerial photographs, topographic maps, and global positioning system (GPS) units to ensure that the same call points were used each year. Call points were placed 30 to 50 meters apart, depending on the quality of the habitat, thickness of vegetation, and accessibility. The call points were located in 2009 using a GPS unit containing their UTM coordinates. Appendix D includes a complete list of call points and their corresponding UTM coordinates.

At each survey site, Mr. Steinman first spent 10 minutes listening for the presence of any singing flycatchers. After this initial listening period, SWFL "fitz-bew" calls were broadcast at each call point for a 30-second period, immediately followed by a 60-second listening period. To reduce bias, start times at each site and the order in which call points were surveyed were intentionally varied from one visit to the next.

Results

SWFL

One pair of SWFL was detected on June 5 from call point 4F while surveying call point 4D, in Site 4, along the California side of the Colorado River (Figure 5). The detection was based on the visual and auditory characteristics of individual birds. The "fitz-bew"

call, which is required for a confirmed detection, was heard from both individuals detected. Surveys of the same site on previous and subsequent visits resulted in no SWFL detections. There were no SWFL detections in any other survey sites during any surveys.

Incidental Species

Multiple incidental wildlife species were observed during the SWFL survey. The diversity and abundance of wildlife species encountered were influenced by the proximity of the survey area to the creosote-dominated desert and the Topock Marsh, a large wetland with abundant wildlife. The most commonly observed non-avian vertebrate species were desert cottontail (*Sylvilagus auduboni*), beaver (*Castor canadensis*), coyote (*Canis latrans*), bullfrog (*Rana catesbeiana*), and western side-blotched lizard (*Uta stansburiana*). The most commonly observed avian species were great-tailed grackle (*Quiscalus mexicanus*), white-winged dove (*Zenaida asiatica*), verdin (*Auriparus flaviceps*), and black-tailed gnatcatcher (*Polioptila melanura*). Complete lists of the avian and non-avian vertebrate species observed are included in Appendix B.

Notable observations during the 2009 surveys were the detections of western yellow-billed cuckoo (*Coccyzus americanus*), Yuma clapper rail (*Rallus longirostris yumanensis*), Arizona Bell's vireo (*Vireo bellii arizonae*), and brown-headed cowbird (*Molothrus ater*).

A single western yellow-billed cuckoo (YBCU) was observed on July 8 at call point A19 in the Arizona survey area. This is the second year that YBCU have been observed in the Arizona survey area. The western yellow-billed cuckoo is listed as an Endangered species by the California Department of Fish and Game (CDFG), a Species of Concern by the Arizona Game and Fish Department (AZGFD), and a Candidate for listing by the USFWS. Although this observation was of a single individual, the late-season observation coupled with the second year of observation may indicate that cuckoo are breeding in the area.

A single Yuma clapper rail was observed on July 2 at call point A20 in the Arizona Site. The Yuma clapper rail is listed as an Endangered species by both the USFWS and CDFG and a Species of Concern by the AZGFD. This is the second year that Yuma clapper rail were detected in the Arizona survey area.

Arizona Bell's vireo (AZBV) were detected in the Arizona survey area in all but the first survey period. AZBV were observed at call points A39, A32, A23, A22, and A19. Although this species has no Arizona or federal protective status, the California subspecies least Bell's vireo (*Vireo bellii pusillus*) is listed as Endangered in California. This is the fifth year that Arizona Bell's vireo have been observed, though the number of observations decreased from 2008, when they were detected during every survey period and at every call point between A39 and A20.

Brown-headed cowbirds were observed at four sites in the survey area (Sites A, 3, and 4). The numbers of occurrences and sites in which cowbirds were observed was less than in previous years. Cowbirds are known nest parasites of SWFL and other songbirds, and their presence may be affecting SWFL occurrence in the area.

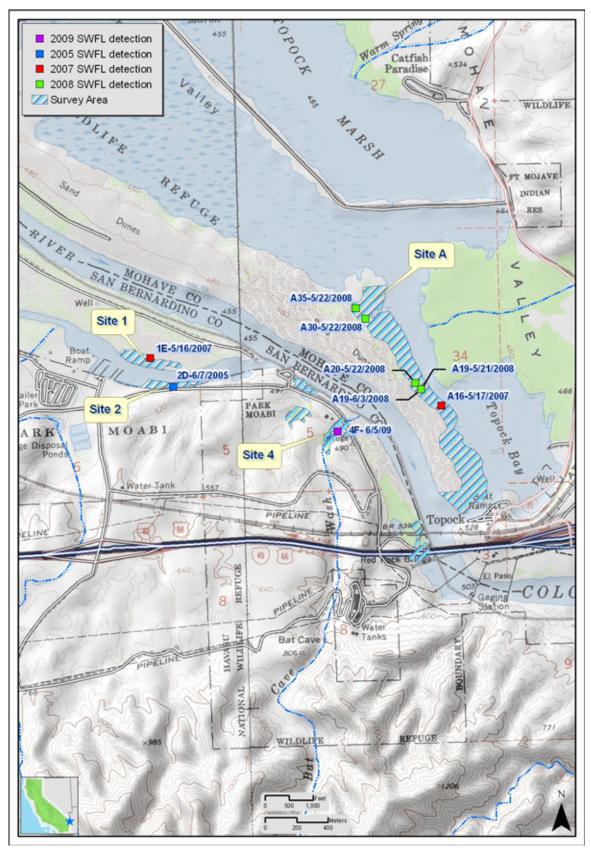


Figure 5. Southwestern willow flycatcher detections (2005 to 2009).

Conclusions

Although a pair of SWFL was detected in 2009, this detection was most likely a transient pair since there were no detections after the second survey period. Had SWFL been breeding in the survey area, there would have been detections in subsequent survey periods as the birds established a territory and proceeded with their nesting cycle. In previous surveys, transient SWFL were detected at call points 2D in 2005, at 1E and A16 in 2007, and at call point A19, A20, A30, and A35 in 2008 (Figure 5) (Ganda 2005, 2006, 2007 and 2008). Collectively these detections indicate that the survey sites provide habitat as a stopover point for SWFL during migration. Given the detections of SWFL in the last several years, the presence of suitable habitat, and the presence of nearby breeding populations (Ellis, et al. 2008, SWCA 2004), there is a potential for SWFL to breed in the survey area in the future.

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Appendix A

Photographs



Photo 1. Site 1 from call point 2F looking east.



Photo 2. Site 2 from call point 2F looking south.



Photo 3. Site 3 from middle of site looking south.



Photo 4. Site 4 from the southwest side of the site looking northeast.



Photo 5. Site 5 from call point 5A looking north.



Photo 6. Site 6 from call point 6R looking southwest.



Photo 7. Site A from call point A21 looking north.

Appendix B

Incidental Plant and Wildlife Species

Table 1. Bird Species Observed

Common Names	Scientific Names
Abert's Towhee	Pipilo aberti
American Coot	Fulica americana
American Kestrel	Falco sparverius
Anna's Hummingbird	Calypte anna
Arizona Bell's Vireo	Vireo bellii
Ash-throated Flycatcher	Myiarchus cinerascens
Bewick's Wren	Thryomanes bewickii
Black Phoebe	Sayornis nigricans
Black-chinned Hummingbird	Archilochus alexandri
Black-tailed Gnatcatcher	Polioptila melanura
Blue Grosbeak	Passerina caerulea
Brown-headed Cowbird	Molothrus ater
Bushtit	Psaltriparus minimus
Canada Goose	Branta canadensis
Caspian Tern	Sterna caspia
Clark's Grebe	Aechmophorus clarkia
Cliff Swallow	Petrochelidon pyrrhonota
Common Poorwill	Phalaenoptilus nuttallii
Common Raven	Corvus corax
Common Yellowthroat	Geothlypis trichas
Common-ground Dove	Columbina passerina
Cooper's Hawk	Accipiter cooperii
Crissal Thrasher	Toxostoma crissale
Double-crested Cormorant	Phalacrocorax auritus
European Starling	Sturnus vulgaris
Gadwall	Anas strepera
Gambel's Quail	Callipepla gambelii
Great Blue Heron	Ardea herodias
Great Egret	Ardea alba
Greater Roadrunner	Geococcyx californianus
Great-tailed Grackle	Quiscalus mexicanus
Hepatic Tanager	Piranga flava
Hodded Oriole	Icterus cucullatus
House Finch	Carpodacus mexicanus
Inca Dove	Columbina inca
Killdeer	Charadrius vociferous
Ladder-backed Woodpecker	Picoides scalaris
Least Bittern	Ixobrychus exilis
Lesser Goldfinch	Carduelis psaltria
Lesser Nighthawk	Chordeiles acutipennis

Common Names	Scientific Names
Loggerhead Shrike	Lanius ludovicianus
Lucy's Warbler	Vermivora luciae
Mallard	Anas platyrhynchos
Mourning Dove	Zenaida macroura
Northern Harrier	Circus cyaneus
Northern Mockingbird	Mimus polyglottos
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Olive-sided Flycatcher	Contopus cooperi
Orange-crowned Warbler	Vermivora celata
Osprey	Pandion haliaetus
Purple Finch	Carpodacus purpureus
Red-tailed Hawk	Buteo jamaicensis
Red-shouldered Hawk	Buteo lineatus
Red-winged Blackbird	Agelaius phoeniceus
Rock Pigeon	Columba livia
Rock Wren	Salpinctes obsoletus
Ruddy Duck	Oxyura jamaicensis
Say's Phoebe	Sayornis saya
Southwestern Willow Flycatcher	Empidonax traillii extimus
Snowy Egret	Egretta thula
Song Sparrow	Melospiza melodia
Summer Tanager	Piranga rubra
Turkey Vulture	Cathartes aura
Verdin	Auriparus flaviceps
Western Grebe	Aechmophorus occidentalis
Western Kingbird	Tyrannus verticalis
White-faced Ibis	Plegadis chihi
White-Winged Dove	Zenaida asiatica
Wilson's Warbler	Wilsonia pusilla
Yellow-Breasted Chat	Icteria virens
Yellow-headed Blackbird	Xanthocephalus xanthocephalus
Yuma Clapper Rail	Rallus longirostris yumanensis

Table 2. Wildlife Species Observed

Common Name	Scientific Name
American Bullfrog	Rana catesbeiana
Beaver	Castor canadensis
Black-tailed Jackrabbit	Lepus californicus
Burro	Equus asinus
Coyote	Canis latrans
Desert Cottontail	Sylvilagus audubonii
Desert Iguana	Dipsosaurus dorsalis
Feral Hog	Sus scrofa
Side-blotched Lizard	Uta stanburiana
Texas Spiny Soft Shell Turtle	Apalone spinifera emoryi
Western Diamond-backed Rattlesnake	Crotalus atrox

Table 3. Plant Species Observed

Common Name	Latin Name
Arrowweed	Pluchea sericea
Athel Salt Cedar	Tamarix aphylla
Cheesebush	Hymenoclea salsola
Prickly Lettuce	Lactuca serriola
Buckhorn Cholla	Cylindropuntia c.f. achanthocarpa
Silver Cholla	Cylindropuntia echinocarpa
Pencil Cholla	Cylindropuntia ramosissima
California Barrel Cactus	Ferocactus cylindraceus
Beavertail	Opuntia basilaris var. basilaris
Fish-hook Cactus	Mammillaria dioica
Russian Thistle	Salsola tragus
Catclaw Acacia	Acacia greggii
Palo Verde	Cercidium microphyllum
Honey Mesquite	Prosopis glandulosa var torreyana
Desert Lavender	Hyptis emoryi
Anderson Wolfberry	Lycium andersonii
Cooper's Wolfberry	Lycium cooperi
Desert Tobacco	Nicotiana obtusifolia
Thick-leaf Ground Cherry	Physalis crassifolia
Salt Cedar	Tamarix ramosissima
Cottonwood	Populus deltoides

Common Name	Latin Name				
Coyote Willow	Salix exigua				
Gooding's Willow	Salix gooddingii				
Cattail	Typha angustifolia				
Ironwood	Olneya tesota				

Appendix C

Survey Forms

Fill in the following information completely. Submit original form by August 1st. Retain a copy	for your records.							
Reporting Individual JEFF Steinman Phone #(415) 642- Affiliation Garcia and Associates E-mail phonemagn	8969							
Site Name Topick AZ-1 Date Report Comple	enternandasseirles							
Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) If 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, summari	ize in comments below.							
	ze in comments below.							
Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private Name of Management Entity or Owner (e.g., Tonto National Forest) Hawso Wildlife Refuse								
Length of area surveyed: 3600 Pl . (specify units, e.g., miles = mi, kilometers = km, meters = m)								
Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominant	ly of (check one):							
Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)								
Mixed native and exotic plants (mostly native)								
Mixed native and exotic plants (mostly exotic)								
Exotic/introduced plants (entirely or almost entirely)								
Identify the 2-3 predominant tree/shrub species: Tamaria Ramosissima / Acadia grego	ii							
Average height of canopy (Do not put a range): 20 ft. (specify units)								
Was surface water or saturated soil present at or adjacent to site? Yes/No (circle one) Distance from the site to surface water or saturated soil:								
Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No If yes, describe in comments section below.	(circle one)							
Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photograph NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior site and describe any unique habitat features.	e, survey route in relation to aphs are welcomed, but DO							
Comments (attach additional sheets if necessary)								
WIFL Detection Locations:								
Date Detected N UTM E UTM Date Detected N UTM	E UTM							

Site Name Topock	: AZ-	1					State A	County	Mohave
Site Name Topock USGS Quad Name To	pock					Elevat	ion	440	Mohave (feet) meters (circle one)
Is copy of USGS	map mai	rked w	ith survey	area a	nd WI	FL sig	ntings atta	ched (as requi	ired)? 🔀 Yes 🗌 No
Site Coordinates: Start:	N 38	46	178	E (1	07	29	655	UTM	Datum \$3 (NAD27 preferred)
Stop:	N38	44	888	EII	07	30	259	UTM	Zone II

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)	
1 Jeff Steinman	Date 5/20-5/21 Start 0601 - 05'00 Stop 0605 - 0917- Total hrs 5/15/1/2	φ	ø	9	2	Y	2		
2	Date 6 2-6 5 Start 0602- 0903 Stop 0518- 0850 Total hrs 6 183+	Ø	Φ	Φ	2	Ч	2		
3	Date 7/2 Start 0550 Stop 09al Total hrs3h31sh	φ	φ	φ	2	2	2		
4	Date 7/9 Start 0547 - Stop 0930 Total hrs 3443	Φ	Ø	φ	2	2	2		
5	Date 7/16 Start OCOI Stop OP 25 Total hrs 3/24	Ф	Φ	0	2	2	2		
Overall Site Su	-	Adults	Pairs	Territories	Nests	Were any W	/IFLs color-banded?	Yes No	
(Total resident Wi	,	Ø	Φ	Ø	Ø	If yes, report color combination(s) in the comments section on back of form			

Reporting Individual TEF Steinman Date Report Completed
US Fish and Wildlife Service Permit #TE-085036 AZ Game and Fish Department (or other state) Permit #5P-597467

Fill in the follo	wing information co	ompletely. <u>Submit or</u>	iginal form by August	1st. Retain a copy for	your records.
Reporting Individual Affiliation Garcia	Jeff Steinmai and Associa ca CA-1	n les	Ph E- 	one #(415)642 - 89 mail 15 teluwanG) ate Report Completed	969 garchidassocillas, co
Did you verify that this If name is different, wh If site was surveyed las Did you survey the sam	nat name(s) was used at year, did you surve	in the past? y the same general ar	orevious years Yes N	No (circle one)	n comments below.
Management Authority Name of Management	for Survey Area (ci	rcle one): F	ederal Municipal/Co	ounty State Triba	ıl Private
Length of area surveye	d: 1500 ft (sp	ecify units, e.g., miles	= mi, kilometers = kn	n, meters = m)	
Vegetation Characteris	tics: Overall, are the	species in tree/shrub	layer at this site comp	rised predominantly of	(check one):
Native broadles	af plants (entirely or	almost entirely, inclu	des high-elevation will	ow)	
Mixed native a	nd exotic plants (mo	stly native)			
Mixed native a	nd exotic plants (mo	stly exotic)			
Exotic/introduc	ed plants (entirely o	r almost entirely)			
Identify the 2-3 predon	ninant tree/shrub spe	cies: Tampir	ramosissima /	Cacadium m	lassishy low
Average height of cano			. '		3
Was surface water or side to Distance from the site of Distance from the site of Did hydrological conditions of the State of WIFL detections. All patch, and location of a NOT substitute for the site and describe any under the State of Distance of State of Comments (attach adding Mark of State of Sta	to surface water or sitions change signific ments section below copy of a USGS quad lso include a sketch on my willow flycatcher required USGS quad nique habitat feature	cantly among visits (d topographical map (For aerial photograph sl s or willow flycatcher I map. Please include s.	(specify units did the site flood or dry REQUIRED) of the sur- nowing details of site to nests detected. Such sl photos of the interior of	out)? Yes No (c	survey site and location rvey route in relation to are welcomed, but DO the patch, and overall
WIFL Detection Locat	ions:				
Date Detected 1	N UTM	E UTM	Date Detected	N UTM	EUTM
			1		

Site Name Topack	CA-1				State CA	County 술	un Bernardino
USGS Quad Name	shale Moon	tain	7	Eleva	tion	140	(feet) meters (circle one)
Is copy of USGS	map marked wi	th survey a	area and	WIFL si	ghtings attac	hed (as require	ed)? 🖾 Yes 🗌 No
Site Coordinates: Start:	N 38 45	821	E	07 6	180 81	UTM	Datum 83 (NAD27 preferred)
Stop:	N 38 45	722	E ((07 8	18 449	UTM	Zone []

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

Survey# Observer(s)	Date (m/d/y) Survey time	Number of Adult	Estimated Number	Estimated Number of	Nest(s) Found?	Cowbirds Detected?	Presence of Livestock, Recent sign,	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of
(Full Name)		WIFLs	of Pairs	Territories	Y or N	Y or N	If Yes, Describe Y or N	nests, nest contents or number of fledges seen; potential threats)
1 Jeff Steinman	Date 5 19 Start 0810 Stop 0848 Total hrs 384	Ø	ď	Φ	2	2	2	
2	Date 64 Start 083 Stop 091 Total hrs 40m	Φ	Ø	Φ	2	2	2	
3	Date 7/1 Start 0750 Stop 0832 Total hrs 4244	Ø	d	Ø	2	2	2	
4	Date 7/10 Start 0609 Stop 0712 Total hrs 63 m	φ	ø	Ø	2	2	Ν	
5	Date 7/15 Start 0830 Stop 0902 Total hrs 324	φ	φ	Φ	2	2	2	
Overall Site Su	-	Adults	Pairs	Territories	Nests	Were any W	/IFLs color-banded?	Yes No
(Total resident W		9	Ø	φ	Ø	If yes, report color combination(s) in the comments section on bac of form		

Reporting Individual Teff Steinman Date Report Completed Date Report Completed US Fish and Wildlife Service Permit #TE-085036 AZ Game and Fish Department (or other state) Permit #42-007-801

Fill in the	following information	completely. Submit	original form by Augu	st 1 st . Retain a cop	y for your records.
Reporting Individu Affiliation Site Name To	al Jeff Steinmann Associate CA-2	entes		Phone # (415) 64 E-mail Avenau Date Report Compl	2-8969 Aassando, com leted
Did you verify tha If name is differen If site was surveye	t this site name is consi t, what name(s) was us d last year, did you sur	istent with that used ed in the past?vey the same genera	in previous years? Yes	No If no, summar	rize in comments below.
Management Auth Name of Managen	ority for Survey Area (nent Entity or Owner (circle one): e.g., Tonto National	Federal Municipal/(County State Morbi Re	Tribal Private
Length of area sur	veyed: <u>2000 P</u> f(s	specify units, e.g., m	iles = mi, kilometers = l	,	
Vegetation Charac	teristics: Overall, are the	he species in tree/shr	rub layer at this site com	prised predominan	tly of (check one):
Native bro	adleaf plants (entirely	or almost entirely, in	cludes high-elevation w	illow)	
Mixed nati	ve and exotic plants (n	nostly native)			
Mixed nati	ve and exotic plants (n	nostly exotic)			
Exotic/intr	oduced plants (entirely	or almost entirely)			
dentify the 2-3 pr	edominant tree/shrub s	pecies: Tamin	ramosissina /	Acacia are	sai!
			ft.		03
Distance from the Did hydrological of If yes, describe in Remember to attace of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	conditions change signicomments section below the acopy of a USGS quasis. Also include a sketch of any willow flycatch the required USGS quay unique habitat feature additional sheets if new additional sheets if new conditional	ficantly among visits w. ad/topographical man n or aerial photographers or willow flycatel ad map. Please inchares. cessary)	h showing details of site her nests detected. Such	ry out)? Yes / No arvey area, outlining location, patch shap sketches or photogr of the patch, extern	g the survey site and location, survey route in relation (raphs are welcomed, but Dior of the patch, and overa
WIFL Detection I	ocations:				
Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM
	1	I	1	I	1

Site Name Topock (USGS Quad Name www		u	Eleva	State <u>CA</u> tion <u>480</u>		feet/ meters (circle one)	
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? 🔀 Yes 🗌 No							
Site Coordinates: Start: Stop:			07 28			m 83 (NAD27 preferred)	

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
Sternman	Date 5 22 Start 0740 Stop 0831 Total hrs 51m	Ø	ø	φ	2	2	2	
2	Date 6/4 Start 67/5 Stop 67/52 Total hrs 37/14	Ø	Ф	ø	2	2	2	
3	Date 7/3 Start 0728 Stop 0800 Total hrs \$2 m	Ø	Ø	Ф	2	2	2	
4	Date 7/8 Start 0653 Stop 0735 Total hrs 42 m	Ø	φ	φ	2	7	2	
5	Date 7/17 Start 0800 Stop 0844 Total hrs 44m	Φ	φ	ø	2	2	2	
Overall Site Su		Adults	Pairs	Territories	Nests	Were any W	/IFLs color-banded?	Yes No
(Total resident W		Ø	ø	Ø	Ø	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Teff Steward Date Report Completed US Fish and Wildlife Service Permit #TE-0850% AZ Game and Fish Department (or other state) Permit #Sc-007801

Reporting Individ	ual Jeff Steinm	an		Phone #(415) 642-8969
Affiliation Gaso	ca and Associa ock CA-3	les		Prone 1995 692-8969 E-mail steinman Dayro mand 45500 (after Report Completed
Did you verify that f name is differer	at this site name is con	used in the past?	l in previous years! Yes	
			is site this year? Yes	
	nority for Survey Area ment Entity or Owner		Federal Municipal BLM	/County State Tribal Private
ength of area sur	rveyed: 500ff	(specify units, e.g., r	niles = mi, kilometers =	km, meters = m)
egetation Chara	cteristics: Overall, are	the species in tree/sl	nrub layer at this site con	mprised predominantly of (check one):
Native bro	oadleaf plants (entirely	or almost entirely, i	ncludes high-elevation v	villow)
Mixed nat	ive and exotic plants	(mostly native)		
Mixed nat	ive and exotic plants	mostly exotic)		
Exotic/inte	roduced plants (entire	ly or almost entirely)		
dentify the 2-3 pr	redominant tree/shrub	species: Tamaria	ramosissina/A	cacin greggill
Average height of	canopy (Do not put a	range):	12 ft.	(specify units)
Distance from the	site to surface water	or saturated soil: nificantly among visi	Site? Yes No (circle specify under the site flood or extended the site floo	dry out)? Yes No (circle one)
Remember to attace	ch a copy of a USGS q ns. Also include a sket n of any willow flycato r the required USGS of	uad/topographical mach or aerial photographers or willow flycate quad map. Please inc	ph showing details of site cher nests detected. Suc	survey area, outlining the survey site and location e location, patch shape, survey route in relation to h sketches or photographs are welcomed, but DO or of the patch, exterior of the patch, and overall
NOT substitute fo	and and an and and a second			
NOT substitute for site and describe a	additional sheets if n	ecessary) in habitat s put in a	only (35)	outh of Tourse)
NOT substitute for site and describe a	additional sheets if n	ecessary) 14 hab chart 5 put in a	oridy (go	owth of Tourney)
NOT substitute for ite and describe a	improvement	ecessary) In hoochat > put in a	to the	owth of Tourner)
NOT substitute for ite and describe a Comments (attack	Improvement 3H	ecessary) In hao chat a put in a	poully (gs	outh of Tourner)
NOT substitute for site and describe a Comments (attach Due + o.**	Improvement 3H	ecessary) In hoo clot	Date Detected	NUTM EUTM
NOT substitute fo site and describe a	Improvement 3H	in hoolst		

Site Name Topock			State CA County	an Bernardino
USGS Quad Name	Topack	Elevat	ion 440 ft.	(feet) meters (circle one)
Is copy of USGS	map marked with sur	vey area and WIFL sig	htings attached (as requ	ired)? 🔀 Yes 🗌 No
Site Coordinates: Start:	N 38.45 653	E 11 07 29	128UTM	Datum 83 (NAD27 preferred)
Stop:	N38 45 544	E11 07 29	285 UTM	Zone //

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
1 Jeff Stemman	Date 5 2 2 Start 065 (Stop 0737 Total hrs 46m	Ø	Φ	φ	2	7	2	
2	Date 6/4 Start 0633 Stop 0911 Total hrs 38 m	Φ	ø	Ø	N	2	2	
3	Date 7/3 Start 0646 Stop 0722 Total hrs 424	Φ	Φ	0	N	Y	2	
4	Date 7/16 Start 0.758 Stop 0.839 Total hrs 4/1m	φ	ф	φ	~	2	N	
5	Date 7/145 Start 648 Stop 6733 Total hrs 46	φ	Φ	Ø	N	2	2	
Overall Site Su	ımmary	Adults	Pairs	Territories	Nests	Were any V	VIFLs color-banded?	Yes No
(Total resident W		Ø	Ø	Ø	0	If yes, report of form	rt color combination(s) in the comments section on back

Reporting Individual TAT Steward Date Report Completed US Fish and Wildlife Service Permit #TE 086026 AZ Game and Fish Department (or other state) Permit # 56-0078-01

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records. Reporting Individual Joff Steinman Phone #(415) 642-8969 Affiliation Garcia and Associates
Site Name Topock CA-4 E-mail garcuardassectates. com Did you verify that this site name is consistent with that used in previous years? Yes No (circle one) If 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 in comments below. Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below. Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private Name of Management Entity or Owner (e.g., Tonto National Forest) Length of area surveyed: 800ff (specify units, e.g., miles = mi, kilometers = km, meters = m) Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one): Native broadleaf plants (entirely or almost entirely, includes high-elevation willow) Mixed native and exotic plants (mostly native) Mixed native and exotic plants (mostly exotic) Exotic/introduced plants (entirely or almost entirely) Identify the 2-3 predominant tree/shrub species: Tamatia vamosissium Acacia a vegai Average height of canopy (Do not put a range): (specify units) Was surface water or saturated soil present at or adjacent to site? Yes No (circle one) Distance from the site to surface water or saturated soil: (specify units) Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes / No (circle one) If yes, describe in comments section below. Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features. Comments (attach additional sheets if necessary) Due to the increased size of the vegetation in the south of the sile 4 additional and points (48,43,47, and 40) were added A pair of suff were detected on 6/5 from call point 4F at the start of the survey. WIFL Detection Locations: Date Detected Date Detected NUTM E UTM NUTM E UTM 11 07 29 450 38 45 6/5

Site Name Topock USGS Quad Name	CA-4		State CA County 4	
USGS Quad Name	Topack	Eleva	tion 520	feet/ meters (circle one)
Is copy of USGS	map marked with surve	y area and WIFL sig	htings attached (as requir	red)? 🔀 Yes 🗌 No
Site Coordinates: Start:	N 38 45 150	E 11 07 2	7 384 UTM	Datum 83 (NAD27 preferred)
Stop:	N38 45 317		9 537 UTM	Zone 11

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
1 Toff Steinman	Date 5 P Start O555 Stop C654 Total hrs 57 u	Ø	ø	φ	2	7	2	
2	Date 6 5 Start 0645 Stop 708 Total hrs 83	a	1	\	2	2	2	Pair" Fitz-bew" several times lots of whote
3	Date 7 1 1 Start 0530 Stop 0618 Total hrs 484	Ø	ø	4	2	2	2	
4	Date 7/8 Start 0550 Stop 0650 Total hrs604	ø	ø	ø	4	2	2	
5	Date 7/15 Start OS Q Stop C647 Total hrs 65 m	Φ	φ	φ	۲	2	2	
Overall Site Su	mmary	Adults	Pairs	Territories	Nests	Were any W	/IFLs color-banded?	Yes No
(Total resident Wi		а	l	Ø	2	If yes, repor of form	t color combination(s) in the comments section on back

Reporting Individual Total Steuman Date Report Completed Date Report Completed AZ Game and Fish Department (or other state) Permit # 5C-007801

Fill in the	following information c	completely. <u>Submit orig</u>	ginal form by August	st. Retain a copy for y	our records.
Affiliation Gard	ial Jeff Steimma Cia and Associa Tapack CA-5	u rtes	Pho E-r Dat	nne # <u>(4/5)642 - 8</u> nail <u>13 tein rend</u> te Report Completed	gacinaudassaudes.co
If name is differen If site was surveye	t this site name is consis t, what name(s) was used d last year, did you surv e same general area durii	d in the past?ey the same general are	ea this year? Yes No		
Management Auth Name of Managen	ority for Survey Area (c nent Entity or Owner (e.,		deral Municipal/Control St) Haveso V		
Length of area sur	veyed: <u>900F} (sp</u>	pecify units, e.g., miles	= mi, kilometers = km	meters = m)	
Vegetation Charac	eteristics: Overall, are the	e species in tree/shrub l	layer at this site compri	sed predominantly of	(check one):
Native bro	adleaf plants (entirely or	almost entirely, includ	les high-elevation willo	ow)	
Mixed nate	ive and exotic plants (mo	ostly native)			
Mixed nat	ive and exotic plants (mo	ostly exotic)			
Exotic/intr	oduced plants (entirely	or almost entirely)			
-	edominant tree/shrub sp	• *	CAM TISSIMA /	les: areasil	
	canopy (Do not put a ra			(specify units)	
riverage neight of	canopy (50 not par a ra	50).	. , .	(openi) amo)	
	or saturated soil presen site to surface water or				
	conditions change significomments section below		id the site flood or dry	out)? Yes No (ci	rcle one)
of WIFL detection patch, and location NOT substitute fo	ch a copy of a USGS quants. Also include a sketch of any willow flycatcher the required USGS quants unique habitat features.	or aerial photograph sh rs or willow flycatcher d map. Please include	owing details of site loo nests detected. Such sk	cation, patch shape, survetches or photographs a	vey route in relation to are welcomed, but DO
Comments (attach	additional sheets if necessity	essary)			
	ocations:				
WIFL Detection I	N UTM	EUTM	Date Detected	N UTM	EUTM
Date Detected	110111				
	11.01.11				

Site Name Topoc	k CA-5		State CA County 5	au Bernardino			
USGS Quad Name	Topock	Elevati	on 500	feet meters (circle one)			
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No							
Site Coordinates: Start:	N 38 44 738	E 11 07 29		Datum 83 (NAD27 preferred)			
Stop:	N 22 44 458	E 11 07 29	930 UTM	Zone (1			

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
1 Jeff Steinman	Date 5 19 Start 0657 Stop 0750 Total hrs 53 m	ø	Ø	Φ	2	2	2	
2	Date 6 4 Start 0713 Stop 0820 Total hrs 6714	Φ	ф	0	2	2	7	
3	Date 7 1 Start 0634 Stop 0736 Total hrs 62 M	0	ø	Φ	2	2	2	
4	Date 7 8 Start 0738 Stop 0840 Total hrs 624	Φ	Φ	Φ	2	7	2	
5	Date 7/17 Start 0700 Stop 0755 Total hrs 554	Φ	Ф	Ф	2	2	2	
Overall Site Su		Adults	Pairs	Territories	Nests	Were any V	VIFLs color-banded?	Yes No
(Total resident W		φ	ø	φ	φ	If yes, report of form	rt color combination(s	s) in the comments section on back

Reporting Individual Teff Stewman Date Report Completed
US Fish and Wildlife Service Permit #TE-085026 AZ Game and Fish Department (or other state) Permit #4007801

			<u>it original</u> form by Augu	***	*
Reporting Individu Affiliation Gare Site Name	ia and Asso pock CA-6	man xules	I	Phone #(415) 864 E-mail gasck au Date Report Complete	12-8969 ul associales.
Did you verify tha If name is differen If site was surveye	t this site name is cont t, what name(s) was u	sistent with that used sed in the past? rvey the same gener	al area this year? Yes site this year? Yes N	/ No (circle one) No If no, summarize	e in comments below.
	nority for Survey Area nent Entity or Owner		Federal Municipal/6		ibal Private
Length of area sur	veyed: 500Ff	(specify units, e.g., n	niles = mi, kilometers = k	cm, meters = m)	
egetation Charac	cteristics: Overall, are	the species in tree/sh	nrub layer at this site com	prised predominantly	of (check one):
Native bro	adleaf plants (entirely	or almost entirely, in	ncludes high-elevation w	illow)	
Mixed nati	ive and exotic plants (mostly native)			
Mixed nati	ive and exotic plants (mostly exotic)			
Exotic/intr	oduced plants (entirel	y or almost entirely)			
dentify the 2-3 pr	edominant tree/shrub	species: Tamuria	voussissime /A	cacio aresaio	,
			,	-	
Was surface water	or saturated soil pres	ent at or adjacent to	site? Yes No (circle	one)	
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attac of WIFL detection patch, and location NOT substitute for site and describe a	or saturated soil pressite to surface water of conditions change sign comments section bell that a copy of a USGS queen shall be a sketter of any willow flycater	ent at or adjacent to or saturated soil:	site? Yes No (circle	one) ts) ry out)? Ye / No rvey area, outlining th location, patch shape, ; sketches or photograp	ne survey site and location survey route in relation whs are welcomed, but D
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attact of WIFL detection patch, and location NOT substitute for site and describe a	or saturated soil pressite to surface water of conditions change sign comments section beloch a copy of a USGS quist. Also include a sketter of any willow flycater the required USGS quity unique habitat feat	ent at or adjacent to or saturated soil:	site? Yes No (circle 20 17 (specify uni ts (did the site flood or dap (REQUIRED) of the stoph showing details of site ther nests detected. Such	one) ts) ry out)? Ye / No rvey area, outlining th location, patch shape, ; sketches or photograp	ne survey site and location survey route in relation whs are welcomed, but D
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attace of WIFL detection patch, and location NOT substitute for site and describe a	or saturated soil pressite to surface water of conditions change sign comments section beloch a copy of a USGS quist. Also include a sketter of any willow flycater the required USGS quity unique habitat feat	ent at or adjacent to or saturated soil:	site? Yes No (circle 20 17 (specify uni ts (did the site flood or dap (REQUIRED) of the stoph showing details of site ther nests detected. Such	one) ts) ry out)? Ye / No rvey area, outlining th location, patch shape, ; sketches or photograp	ne survey site and location survey route in relation whs are welcomed, but D
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attact of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or or saturated soil pressite to surface water of conditions change sign comments section beloth a copy of a USGS quist. Also include a sketn of any willow flycator the required USGS quity unique habitat feat additional sheets if no	ent at or adjacent to or saturated soil:	site? Yes No (circle 20 17 (specify uni ts (did the site flood or dap (REQUIRED) of the stoph showing details of site ther nests detected. Such	one) ts) ry out)? Ye / No rvey area, outlining th location, patch shape, ; sketches or photograp	ne survey site and location survey route in relation whs are welcomed, but D
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attace of WIFL detection patch, and location NOT substitute for site and describe a	or or saturated soil pressite to surface water of conditions change sign comments section beloth a copy of a USGS quist. Also include a sketn of any willow flycator the required USGS quity unique habitat feat additional sheets if no	ent at or adjacent to or saturated soil:	site? Yes No (circle 20 17 (specify uni ts (did the site flood or dap (REQUIRED) of the stoph showing details of site ther nests detected. Such	one) ts) ry out)? Ye / No rvey area, outlining th location, patch shape, ; sketches or photograp	ne survey site and location survey route in relation whs are welcomed, but D
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attace of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or saturated soil pressite to surface water of conditions change sign comments section beloth a copy of a USGS queen of any willow flycater the required USGS queen unique habitat feat additional sheets if no conditional s	ent at or adjacent to or saturated soil:	site? Yes No (circle specify units (did the site flood or dap (REQUIRED) of the subshowing details of site cher nests detected. Such lude photos of the interior	one) ts) ry out)? Yet/No rvey area, outlining th location, patch shape, sketches or photograp of the patch, exterior	ne survey site and locatic survey route in relation shs are welcomed, but D of the patch, and overs
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attac of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or saturated soil pressite to surface water of conditions change sign comments section beloth a copy of a USGS queen of any willow flycater the required USGS queen unique habitat feat additional sheets if no conditional s	ent at or adjacent to or saturated soil:	site? Yes No (circle specify units (did the site flood or dap (REQUIRED) of the subshowing details of site cher nests detected. Such lude photos of the interior	one) ts) ry out)? Yet/No rvey area, outlining th location, patch shape, sketches or photograp of the patch, exterior	ne survey site and locatic survey route in relation shs are welcomed, but D of the patch, and overs

Site Name Topack USGS Quad Name	CA-6 Topock	Eleva	State CA County -	(feet) meters (circle one)
Is copy of USGS	S map marked with surve	y area and WIFL sig	htings attached (as requ	ired)? 🔀 Yes 🗌 No
Site Coordinates: Start; Stop:	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON	E 11 07 29		Datum 83 (NAD27 preferred) Zone 11

** 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	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
JEFF Strinman	Date 5 19 Start 0902 Stop 0944 Total hrs 424	φ	φ	Ø	2	2	2	
2	Date 6 4 Start 0550 Stop 0633 Total hrs 434	9	Φ	đ	2	2	2	
3	Date 7]3 Start CGO2 Stop C640 Total hrs 384	φ	ø	đ	2	2	2	
4	Date 7/10 Start O73/ Stop O758 Total hrs 274	Φ	ф	φ	2	2	2	
5	Date 7/15 Start 6733 Stop 0820 Total hrs 474	Φ	Φ	Φ	2	2	2	
Overall Site Su	ımmary	Adults	Pairs	Territories	Nests	Were any W	/IFLs color-banded?	Yes No
(Total resident WI		Ø	9	9	Ø	If yes, report color combination(s) in the comments section on bar		s) in the comments section on back

Reporting Individual Jeff Stewwar Date Report Completed US Fish and Wildlife Service Permit #75-085036 AZ Game and Fish Department (or other state) Permit #4-007801

Appendix D

Call Points and UTM coordinates

Call Point	Northing	Easting		
	Site CA1			
1	34.7287023	114.5086978		
1A	34.7283877	114.5082587		
1B	34.7290362	114.5082202		
1C (eliminated 2008)	34.7283767	114.5077127		
1D	34.7288573	114.5076507		
1E	34.7285071	114.5070372		
1F (eliminated 2008)	34.7281293	114.5067438		
1G	34.7283547	114.5066217		
1H	34.7283437	114.5060757		
1I	34.7283693	114.5055359		
1J	34.7280777	114.5049927		
1K	34.7290484	114.5089878		
1L (eliminated 2008)	34.7280077	114.5055517		
1M (eliminated 2008)	34.728179	114.5073177		
1N (eliminated 2008)	34.7280152	114.5062765		
	Site CA2			
2A (eliminated 2008)	34.7271701	114.5072564		
2B (eliminated 2008)	34.7270027	114.5066627		
2C	34.7267487	114.5060653		
2D (eliminated 2008)	34.7268256	114.5055053		
2E (eliminated 2008)	34.7267972	114.5051156		
2F	34.726769	114.5044044		
2G (eliminated 2008)	34.7269073	114.5038429		
2I (eliminated 2008)	34.7269448	114.5081916		
2J (eliminated 2008)	34.7269087	114.5077567		
2K	34.7270438	114.5034344		
2L	34.727109	114.502874		
2M	34.7272046	114.5016267		
2N	34.7272409	114.5021941		
20	34.7265482	114.5038114		
2P (added 2009)	34.7265482	114.5038114		
2R (added 2009)	34.7265482	114.5038114		
2Q (added 2009)	34.7265482	114.5038114		
	Site CA3			
3	34.7266066	114.4968334		
3A	34.7264137	114.4964485		
3B	34.7269123	114.4964092		
3C	34.7262786	114.4959193		
3D	34.7271437	114.4968306		

Call Point	Northing	Easting
3E	34.7276294	114.4970733
3F	34.7272984	114.4976113
3G	34.7262869	114.4968244
3H(added 2009)	34.7262869	114.4968244
	Site CA4	
4D	34.7234366	114.4945918
4E	34.7241494	114.4948672
4F	34.7240427	114.4941947
4G	34.7246473	114.4943451
4H	34.7241802	114.4932324
4I	34.7244817	114.4936357
4L	34.7236327	114.4931157
4M	34.7230606	114.4948162
4N	34.7231627	114.4952587
40	34.7237292	114.4952113
4P	34.722715	114.4949501
4Q	34.7237269	114.4939468
4R (Added 2009)	34.7237269	114.4939468
4S (Added 2009)	34.7237269	114.4939468
4T (Added 2009)	34.7237269	114.4939468
4U (Added 2009)	34.7237269	114.4939468
	Site CA5	
5	34.7167161	114.4895676
5A	34.7163575	114.4891762
5B	34.717273	114.4889426
5C	34.717695	114.4891746
5D	34.7177678	114.4887486
5E	34.7185247	114.4889027
5F	34.7172167	114.4884643
5G	34.7174399	114.4883834
5H	34.7168767	114.4881948
5I	34.7184326	114.4895547
5J	34.7188832	114.4895511
5K	34.7180249	114.4897361
	Site CA6	
6	34.724471	114.4973025
6A	34.7249002	114.4974595
6B	34.7249037	114.4969708
6C	34.7254506	114.4968827
6J	34.7253937	114.4963377

Call Point	Northing	Easting
6K	34.7250157	114.4963497
6R	34.7253507	114.4974186
6S	34.7250823	114.4979739
	Site A	
A1	34.720193	114.4869984
A10	34.7227959	114.4865362
A11	34.7232189	114.4864155
A12	34.7237988	114.4865631
A13	34.7242722	114.4861577
A14	34.7246916	114.4863712
A15	34.7250658	114.4865683
A16	34.7253807	114.4869605
A17	34.7257065	114.4873952
A18	34.7260185	114.4878299
A19	34.7263354	114.488326
A2	34.7196456	114.4861564
A20	34.726718	114.4887242
A21	34.7271551	114.4888669
A22	34.7274569	114.488989
A23	34.7277959	114.4892613
A24	34.728089	114.489507
A25	34.7285576	114.4894346
A26	34.7289766	114.4899624
A27	34.7295078	114.4902939
A28	34.729875	114.4904642
A29	34.7296709	114.490006
A3	34.7203015	114.4853867
A30	34.7304525	114.4920946
A31	34.7305431	114.4903565
A32	34.7303194	114.4908694
A33	34.730053	114.4916106
A35	34.7310743	114.4927285
A36	34.7313701	114.4920116
A37	34.7319069	114.4917183
A38	34.7316184	114.4909052
A39	34.7320004	114.4906932
A4	34.7214798	114.4855149
A40	34.7209055	114.4853451
A41	34.7202607	114.4864104
A42	34.7196133	114.4854915

Call Point	Northing	Easting
A43	34.7205603	114.4849893
A44	34.721329	114.4849859
A6	34.7219756	114.4855115
A7	34.722068	114.4846749
A8	34.7224913	114.4851773
A9	34.7227674	114.4857807