

Yvonne J. Meeks

Topock Project Manager Chromium Remediation Project Office Gas Transmission & Distribution 6588 Ontario Road San Luis Obispo, CA 93405

Mailing Address 4325 South Higuera Street San Luis Obispo, CA 93401

805.546.5243 Internal: 664.5243 Fax:: 805.546.5232 E-Mail: YJM1@pge.com

September 18, 2008

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

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

Compressor Station

Dear Ms. Wolff-White:

This letter transmits the *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 2008 annual field survey for the southwestern willow flycatcher 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. Three pairs of SWFL were detected at Site A (between call points A19 and A20; A30; and A35) during late May to early June. These detections were most likely of transients, since no detections occurred after the first two survey periods. 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.

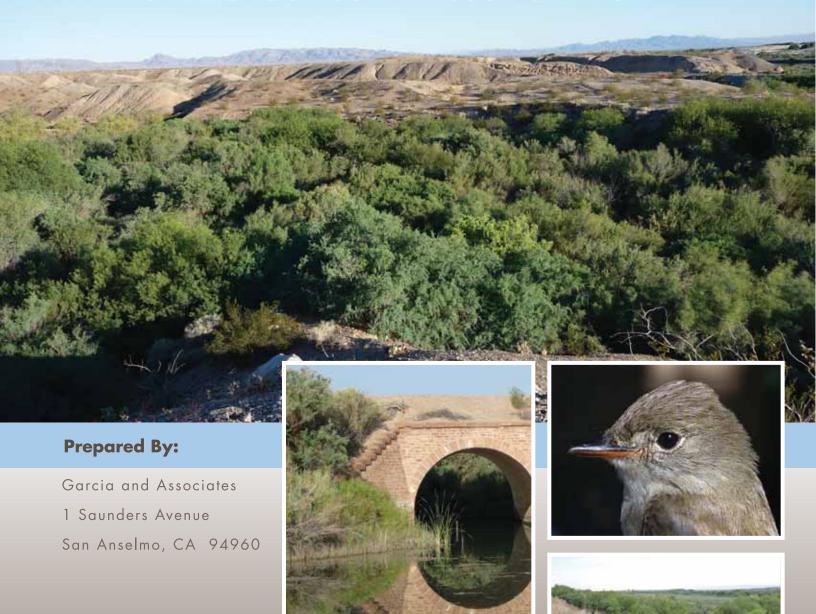
Sincerely,

Cc:

Cindi Hall/USFWS
Lesley Fitzpatrick/USFWS
Aaron Yue/DTSC
David Elms/CDFG
Rebecca Davidson/ADGF
Rob Knutson/PG&E

Geonne Macks

SOUTHWESTERN WILLOW FLYCATCHER PRESENCE/ABSENCE SURVEYS FOR THE PG&E TOPOCK COMPRESSOR STATION



GARCIA and ASSOCIATES

NATURAL & CULTURAL RESOURCE CONSULTANTS



2008 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Prepared by:

Garcia and Associates

September 2008

Prepared for:

CH2M HILL, Inc. and

Pacific Gas & Electric Co.

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1.0 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 Company (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. 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 US 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.

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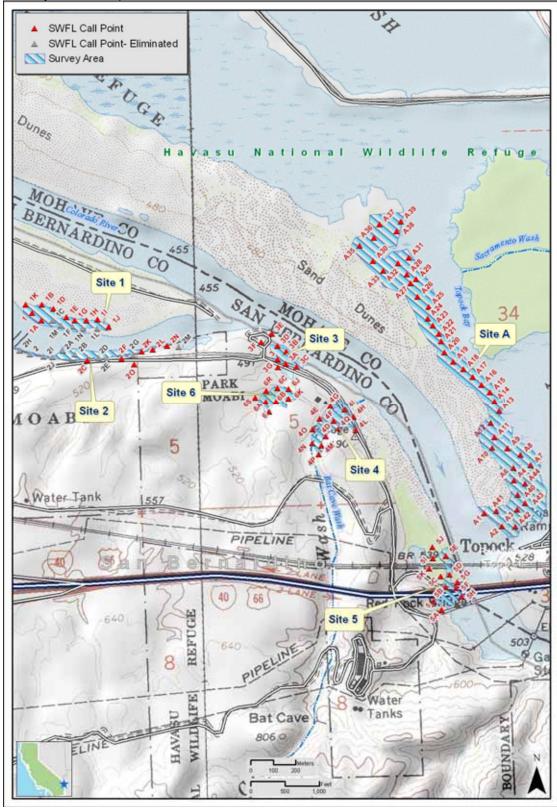
2.0 Site Description

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. These seven sites were all located within the area of potential effect (APE) of the PBA. None of the survey sites are located within USFWS designated critical habitat for the SWFL (USFWS 2005), in fact there is no critical habitat for this species within the APE. 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.

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FIGURE1

Map of survey sites and call points



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3.0 Vegetation and Habitat Quality

3.1 Vegetation

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 predominant 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.

3.2 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, National Trails Highway, 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 also result in a high level of human disturbance. The Arizona site (Figure 1) is located on a large peninsula and generally bordered by contiguous riparian habitat and bulrush-dominated marsh. However, this site is also adjacent to the Topock Marina, a community that includes more than a dozen houses and several businesses. Watercraft were frequently observed on the Colorado River and in the Topock Marsh and are likely a contributing factor to the increased disturbance at this location. A photo of each survey site is included in Appendix A.

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4.0 Survey Methods

GANDA wildlife biologist Jeff Steinman (USFWS permit #TE-085026-2, 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 20 to 23, June 3 to 6, June 24 to 27, July 7 to 10, and July 14 to 16. All surveys were conducted between 04:30 and 10:00 hours. Completed survey forms for each site are included in Appendix C.

The 2008 survey areas were the same as surveyed in previous years (2005 through 2007) with the exception of call points 2 and 2H that were eliminated in 2006, and call points 1L, 1N, 1F, 1M, 1C, 2I, 2J, 2A, 2B, 2D, 2E, 2G, and 2M that were eliminated in 2008 (Figure 1). These call points were eliminated due to vegetation removal in Moabi Regional Park (Figures 2 through 4).

The survey method consisted of using an MP3 player and speaker system to broadcast SWFL calls from call points established during the 2005 survey. 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 between 30 and 50 meters apart, depending on the quality of the habitat, thickness of vegetation, and accessibility. The call points were located in 2008 using a GPS unit containing their UTM coordinates. Appendix D includes a complete list of call points.

At the start of each survey site visit, Mr. Steinman 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.

During the SWFL surveys, Mr. Steinman also collected incidental species data, which he recorded on separate data sheets presented in Appendix B.

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FIGURE 2
Area of vegetation removal in Moabi Regional Park from Site 1.



FIGURE 3
Area of vegetation removal in Moabi Regional Park from north side of Site 2.



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FIGURE 4
Area of vegetation removal in Moabi Regional Park from south side of Site 2.



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5.0 Results

5.1 SWFL

One pair of SWFL was detected on May 21, 22 and June 3 between call points A19 and A20 in Site A along the Arizona side of the Colorado River. Two additional pairs of SWFL were detected on May 22 in Site A at call points A30 and A35 (Figure 5). All detections were based on the visual and auditory characteristics of individual birds. The "fitz-bew" call, which is required for a confirmed detection, was heard from every individual detected. Surveys of the same sites on subsequent visits resulted in no SWFL detections. There were no SWFL detections in any other survey sites during any surveys.

5.2 Incidental Species

A variety of incidental wildlife species were observed during the SWFL survey. The diversity and abundance of wildlife species encountered were influenced by their proximity to the creosote-dominated desert and the Topock Marsh, a large wetland with abundant wildlife and bird species. The most commonly observed non-avian vertebrate species were desert conttontail (*Sylvilagus audubonii*), black-tailed jackrabbit (*Lepus californicus*), beaver (*Castor canadensis*), coyote (*Canis latrans*), bullfrog (*Rana catesbeiana*), and western sideblotched lizard (*Uta stansburiana*). The most commonly observed avian species were greattailed grackle (*Quiscalus mexicanus*), white-winged dove (*Zenaida asiatica*), lesser nighthawk (*Chordeiles acutipennis*), and black-tailed gnatcatcher (*Polioptila melanura*). Complete lists of the avian and non-avian vertebrate species observed are included in Appendix B.

Some significant observations during the 2008 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 was observed on July 14 at call point A11 in the Arizona survey area. 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 is a Candidate for listing by the USFWS. Although this observation was of a single individual, it is significant in that the late timing of the observation may indicate that cuckoo are breeding in the area.

A single Yuma clapper rail was observed on June 24 at call point A13 in the Arizona Site. Yuma clapper rail is listed as a federal and California State Endangered species and a Species of Concern by the AZGFD.

Detections of Arizona Bell's vireo occurred during every survey period in the Arizona survey area from call points A39 to A20. Although this species has no Arizona or federal protective status, the California subspecies least Bells vireo (*Vireo bellii pusillus*) is listed as

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endangered in California. This is the fourth year that Arizona Bell's vireo was observed during surveys, and the second year that detections occurred during every visit.

Brown-headed cowbirds were observed at four sites in the project area (Sites A, 2, 3, and 5). This differed from the three previous years when cowbirds were observed at every site. Cowbirds are known nest parasites of SWFL and other songbirds, and their presence may be reducing SWFL presence in the area.

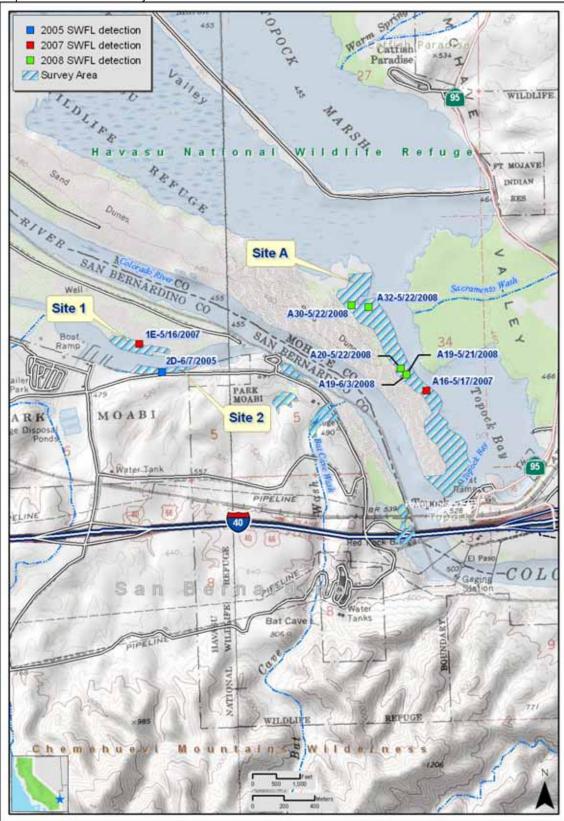
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6.0 Conclusions

Although SWFL were detected during the 2008 survey, the detections were most likely of transients, since no detections occurred after the first two survey periods. Had SWFL been breeding in the survey area there would have been detections in subsequent survey periods. Three detections at call point A19 on May 21, 22 and June 3, are assumed to be the same individuals since the detection location was the same for all three surveys. In previous surveys, potential transient SWFL were detected at call points 2D in 2005 and at 1E and A16 in 2007 (Figure 5). Collectively these detections indicate that the survey sites provide habitat as a stopover points 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 potential for SWFL to breed in the survey area in the future.

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FIGURE 5
Map of southwestern willow flycatcher detections.



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7.0 References

- CH2M HILL. 2007. Programmatic Biological Assessment for Pacific Gas and Electric Topock Compressor Station Remedial and Investigative Actions. January 2007.
- Ellis, L.A., D.M. Weddle, S.D. Stump, H.C. English, and A.E. Graber. 2008. Southwestern Willow Flycatcher Final Survey and Nest Monitoring Report. Arizona Game and Fish Department, Research Technical Guidance Bulletin #10. Arizona Game and Fish Department, Phoenix, AZ. 2008.
- Sogge, M.K., R.M. Marshall, S.J. Sferra, and T.J. Tibbits. 1997. A Southwestern Willow Flycatcher Natural History Summary and Survey Protocol. National Park Service Cooperative Studies Unit. USGS Colorado Plateau Research Station-Northern Arizona University, Flagstaff, Arizona. 1997.
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- U.S. Fish and Wildlife Service (USFWS). 2000. Southwestern Willow Flycatcher Protocol Revision 2000. July 11, 2000.
- United States Fish and Wildlife Service (USFWS). 2005. Federal Register, Department of the Interior, Fish and Wildlife Service. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Southwestern Willow Flycatcher; Final Rule. 50 CFR Part 17. RIN 1018-AT88. October 19.

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



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

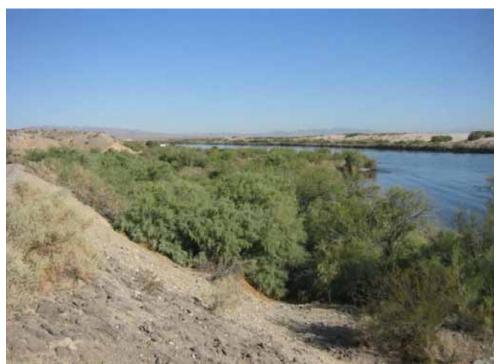


Photo 3. Site 3 from south side of the site looking north.



Photo 4. Site 4 from the northwest side of the site looking east.



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



Photo 6. Site 6 from call point 6K looking north.



Photo 7. Site A from call point A19 looking north.

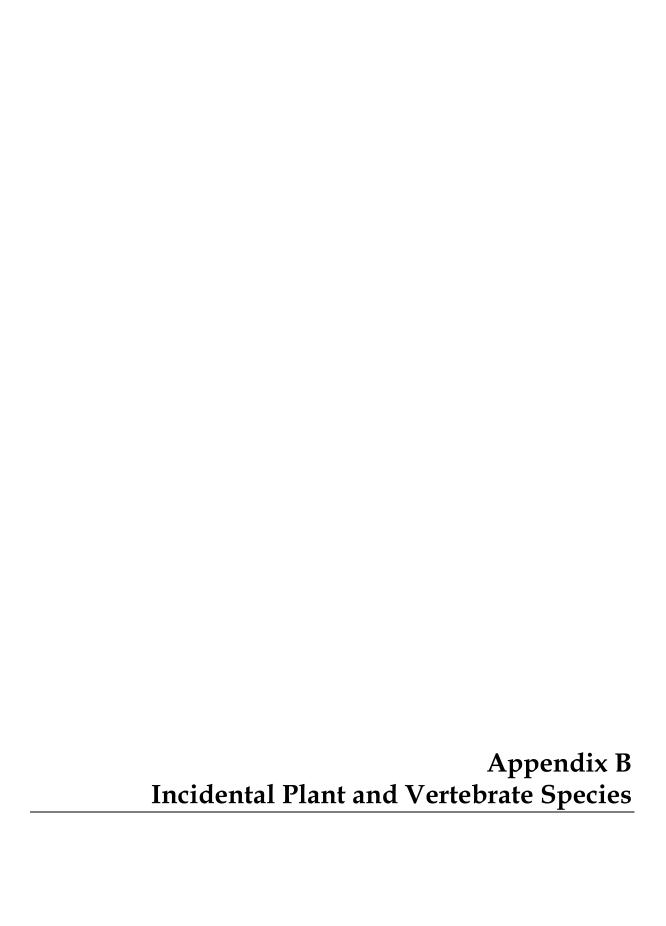


Table 1. Bird Species Observed

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
Hooded 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
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
Western Whiptail	Cnemidophorus tigris
Western Diamond-backed Rattlesnake	Crotalus atrox

Table 3. Plant Species Observed

Common Name	Latin Name
Arrowweed	Pluchea sericea
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
Coyote Willow	Salix exigua
Gooding's Willow	Salix gooddingii

Common Name	Latin Name				
Cattail	Typha angustifolia				
Ironwood	Olneya tesota				



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Average height of Was surface water Did hydrological f yes, describe in Remember to atta of WIFL detection and loontie NOT substitute for tite and describe when the tite and tite an	of canopy (Do not put a rater or saturated soil present a site to surface water or conditions change signiful comments section below ich a copy of a USGS quants. Also include a sketch or of any willow flycarche or the required USGS quanty unique habitant feature.	it at or adjucent to site! saturated soil: licantly among visits (ow. d/topographical map (R or aerial photograph sh rs oe willow flycatcher id map. Please include ess.	Yes No (circle (specify un fild the site flood or of the story of the	(specify units) one) its) try out)? Yes No (revey area, outlining the location, patch shape, so sketches or photographs	(circle one) survey site and location arvey route in relation s are welcomed, but D
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Average height of Was surface water Distance from the Did hydrological f yes, describe in Remember to attain f WiFL detection to the American from the Comments (attack) and describe Comments (attack). The Detection Date Detected	f canopy (Do not put a ra er or saturated soil present e site to surface water or conditions change signifi n comments section below the a copy of a USGS qua- ns. Also include a sketch in of any willow flycatche or the required USGS qua- any unique habitat featur h additional sheets if nec- Locations: N UTM	if at or adjucent to site? saturated soil: Cicantly among visits (d. Additopographical map (R. or aerial photograph she as or willow flycatcher, d. drap. Please include es. essary)	Yes No (circle (specify un did the site flood or of the steep of the interior	(specify units) cone) its) fry out)? Yes No (prvey area, outlining the location, patch shape, so sketches or photographs of the patch, exterior of the patch, exterior of the patch.	(circle one) survey site and location of the patch, and overs
Was surface water of the control of	f canopy (Do not put a rater or saturated soil present e site to surface water or conditions change signific comments section below the a copy of a USGS quants. Also include a sketch or of any willow flycatche or the required USGS quanty unique habitat feature hadditional sheets if necessary unique habitat fractions. N UTM 34.7263354	it at or adjucent to site? saturated soil: Scantly among visits (of the content of the content	Yes No (circle (specify un fild the site flood or of the story on the story of the interior of the interio	(specify units) cone) its) fry out)? Yes No revey area, outlining the location, patch shape, so sketches or photographe r of the patch, exterior of	(circle one) survey site and location are welcomed, but D of the patch, and over
Was surface water of the control of	f canopy (Do not put a rater or saturated soil present a site to surface water or conditions change signific comments section below the a copy of a USGS quants. Also include a sketch of of any willow flycatches or the required USGS quanty unique habitat feature hadditional sheets if necessary unique habitat feature hadditional sheets if ne	if at or adjacent to site! saturated soil: icantly among visits (ov. ica	Yes No (circle (specify un did the site flood or of the steep of the interior	(specify units) cone) its) fry out)? Yes No (prvey area, outlining the location, patch shape, so sketches or photographs of the patch, exterior of the patch, exterior of the patch.	(circle one) survey site and location of the patch, and overs
Vas surface water Var describe in Var substitute for the and describe VIFL Detection VIFL Detection VIFL Detected 5/41	f canopy (Do not put a rater or saturated soil present e site to surface water or conditions change signific comments section below the a copy of a USGS quants. Also include a sketch or of any willow flycatche or the required USGS quanty unique habitat feature hadditional sheets if necessary unique habitat fractions. N UTM 34.7263354	if at or adjucent to site? saturated soil: Cicantly among visits (d. Additopographical map (R. or aerial photograph she as or willow flycatcher, d. drap. Please include es. essary)	Date Detected	(specify units) cone) its) fry out)? Yes No revey area, outlining the location, patch shape, so sketches or photographe r of the patch, exterior of	(circle one) survey site and location are welcomed, but D of the patch, and over

Site Name Topode C	DINNEYOR S	adion	AZ-1		State A	Z County M	ohave
		Marie L		Elevat	ion	440	feet) meters (circle one
Is copy of USO	iS map marked	with sur	ey area an	nd WIFL sig	htings att	ached (as requir	ed)? 🖾 Yes 🗌 No
Site Coordinates: Start:	N 38 46	177	E II	07 29	655	UTM Datum	83 (NAD27 professol)
Stop:	N \$8 44	868	E II	07 30	259	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	listimated Number of Terrisories	Nest(x) Found 7 Y or N	Cowbinds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Communis about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
1Jeff Skinmon	Day 5 31 - 5 42 Stance 6- 05 05 41 - 08 43 Total In Sh'll se	6	3	3	2	۲	2	3 vary responsive prives observed and tend.
2	10mm 6 (2-6)4 0601- Stan 0842, Stop 0652- 0891 Total In 5h20.	a	v	1	2	2	2	I pair observed and beard
3	Date 6/87- 6/875 Start 055(- 0847 Step 0550- 0855 Total Int Shide-	Φ	Ø	ø	2	7	2	
	Date 7 5 - 7 Q Start 05/14 - 05/17 - Stop 05/36 - 05/34 Total Ins 4/14 4/14	φ	Ø	φ	N	۲	N	
5	Date 7/14 65'40 Start 5topl0407 Total brs 1/1074	Φ	0	φ	2	ĭ	2	Mousean/ Rain believe survey, extremé durvey conditions.
Overall Site Sun (Total resident WII		Adults	Pairs	Territories	Nests		TFLa color-banded?	-
Total survey hrs		Ø	d	Ø	Ø	of form	LOWNE CONTENTIACION	s) in the comments section on back

Reporting Individual Jeff Steamon Date Report Completed 8 15
US Fish and Wildlife Service Permit #TE-085026 AZ Game and Fish Department (or other state) Permit # 58512467

Reporting Individ	und Jeff Stein	MAIN		Phone # 415 642	
Affiliation Go	eron and Asso	station CA-	1	E-mail a area and a Date Report Complete	ssocules, com
Old you verify that I name is differen	at this site name is consi at, what name(s) was us ed last year, did you sur	istent with that used in ed in the past?	n previous years? Yes		in comments below
	e same general area du				
	nority for Survey Area (ment Entity or Owner (Federal Municipal/ orest)	County State Tri Mondi Ressi	bal Private
ength of area sur	veyed: 1500 F1 (specify units, e.g., mi	les = mi, kilometers =	km, meters = m)	
Vegetarion Chara	cteristics: Overall, are t	he species in tree/shr	sb layer at this site con	aprised predominantly	of (check one):
Native bee	adleaf plants (entirely	or almost entirely, inc	ludes high-elevation w	fillow)	
Mixed nat	ive and exotic plants (n	nostly native)			
Mixed nat	ive and exotic plants (n	nostly exotic)			
Exotic/inte	roduced plants (entirely	or almost entirely)			
dentify the 2-3 pr	redominant tree/shrub s	pecies Tamaria	ramosissima /	Carcidium Mi	coophyllour
Average height of	eanopy (Do not put a r	range):		(specify units)	
Distance from the	r or saturated soil prese site to surface water or conditions change signi	r saturated soll:	(specify un	is)	(circle one)
	comments section belo		(out the sale flood of d	iyouti res(no)	(carrie one)
of WIFL detection satch, and location NOT substitute fo	ch a copy of a USGS qua ss. Also include a sketch n of any willow flycatch of the required USGS quary unique habitat feature	h or acrial photograph ers or willow flycatch and map. Please inclu-	showing details of site or nests detected. Such	location, patch shape, s sketches or photograpi	survey route in relations are welcomed, but
ommonts (attach The ve of the provious	dditional sheets if no detation along survey. years sorvey	Survey points	was removed the lack of h	red prior to In, IC elimina abitut.	the start
WIFL Detection 1	ocations:				
Date Detected	NUTM	EUTM	Date Detected	NUTM	EUTM
	1000000		United States	1000000	1

ISGS Quad Name whale Mountain									440	(fee) meters (circle or
Is copy of U.	SGS ma	p ma	rked w	ith survey	r area ar	id WI	IFL si	ghtings at	tacked (as re	quired)? 🗌 Yes 🔲 No
Site Coordinates: Sta	nt: N	38	45	821	EIN	67	98	081	UTM	Datum_83_(NAD27 prefe
Sto	p: N	36	45	722	En	07	28	449	UTM	Zone II

Servey # Observor(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pains	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	Commerce about this survey (x.g., hird behavior, evidence of pairs or breeding, templer of such, such contents or muraber of fledges seen; potential threats)
Stemman.	Date 5 July Start 075 I Stary 084 I Total his 50 Main	φ	φ	ø	2	2	N	
2	Date 6/6 State 0603 Stop0647 Total Ins 4/4wi-	Φ	Φ	Φ	2	2	2	
3	Date 6 26 Start 0814 Stop 0'85'5 Total Ins 34 min	Φ	đ	Φ	2	2	2	
4	Dute 7 (II Start 0755 StopO&29 Total firs 55kin	Φ	ф	φ	2	2	2	
5 7	Stan 0739 Stop 0820 Total hrs 41Min	Φ	đ	ď	2	2	2	
Overall Site S	ummary	Adults	Pairs	Tenturies	News	Were any W	TFLs color-banded?	Yes (No)
(Total resident V	- 25	Ø	ø	Ø	Ф	If yes, report color combination(s) in the comments section on h		

	ual Jeff Steinman		Phone # 41S	642 8969
Amustion Gang	in and Associates		E-mail opers	mylesecules com
ile Name Topoc	k Compressor Station	CA-2	Date Report Co	empleted
	at this site name is consistent wi nt, what name(s) was used in the		vears (Yeş) No (circle or	ne)
	ed last year, did you survey the		ar? Yes No lif no. sum	marize in comments below.
	e same general area during each			
Management Aut	hority for Survey Area (circle or	ne): Federal /	Municipal/County State	Tribal Private
lame of Manager	ment Entity or Owner (e.g., Ton	to National Forest)	Mon	bi Regional Park
length of area su	rveyed: 2000 FL (specify)	mits, e.g., miles = mi, ki	fometers = km, meters = m)
Vegetation Chara	cteristics: Overall, are the specie	es in tree/shrub layer at t	his site comprised predom	inantly of (check one):
Native bro	padleaf plants (entirely or almost	t entirely, includes high-	elevation willow)	
Mixed nat	tive and exotic plants (mostly na	tive)		
Mixed nat	tive and exotic plants (mostly ex	otic)		
Exotic/int	roduced plants (entirely or almo	st entirely)		
dentify the 2-3 pr	redominant tree/shrub species:	Tamaria ramos	issium / Acacin	Gresoii,
Average height of	canopy (Do not put a range): _	1514	(specify unit	x)
Did hydrological	r or saturated soil present at or a site to surface water or saturate conditions change significantly comments section below, ch a copy of a USGS quadropog	among visits (did the sin graphical map (REQUIRI al photograph showing de	e flood or dry out)? Yes ED) of the survey area, outli- tuils of site location, patch	ning the survey site and location shape, survey route in relation
of WIFL detection patch, and location NOT substitute in site and describe a Comments (attach	ns. Also include a sketch or acria n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features. additional sheets if necessary) 51 c. bolldozed as 33,24,28,28,26,26,26	Please include photos of	The interior of the patch, e	xterior of the patch, and over
of WIFL detection batch, and location NOT substitute for ite and describe a Comments (attach	n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features.	Please include photos of	The interior of the patch, e	xterior of the patch, and overa
of WIFL detection satch, and location AOT substitute for ite and describe a Comments (attach	n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features.	Please include photos of	The interior of the patch, e	xterior of the patch, and overa
of WIFL detection batch, and location NOT substitute for ite and describe a Comments (attach	n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features.	Please include photos of	The interior of the patch, e	xterior of the patch, and overa
of WIFL detection patch, and location NOT substitute for site and describe and desc	n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features. In additional sheets if necessary) 51 k. bulldozed as	Please include photos of	The interior of the patch, e	xterior of the patch, and overa
of WIFL detection patch, and location NOT substitute in site and describe a Comments (attach	n of any willow flycatchers or wi or the required USGS quad map, any unique habitat features. In additional sheets if necessary) 51 k. bulldozed as	Please include photos of	The interior of the patch, e	xterior of the patch, and overa
of WIFL detection and location with, and location NOT substitute to the and describe of the and describe o	n of any willow flycatchers or wing the required USGS quad map, any unique habitat features. In additional sheets if necessary) 51 lc. bolldozed as 23,24,28,28,26,26 Locations:	Please include photos of	outlebreed stations to be the	sterior of the patch, and overa
of WIFL detection patch, and location NOT substitute life inter and describe a Comments (attach Pact of Detection 1 Detection 1	n of any willow flycatchers or wing the required USGS quad map, any unique habitat features. In additional sheets if necessary) 51 lc. bolldozed as 23,24,28,28,26,26 Locations:	Please include photos of	outlebreed stations to be the	sterior of the patch, and over
of WIFL detection patch, and location NOT substitute life inter and describe a Comments (attach Pact of Detection 1 Detection 1	n of any willow flycatchers or wing the required USGS quad map, any unique habitat features. In additional sheets if necessary) 51 lc. bolldozed as 23,24,28,28,26,26 Locations:	Please include photos of	outlebreed stations to be the	sterior of the patch, and over

Site Name Topack Con	404440	1 Sta	from	C4 - 2			State (CA County	San Bernadino
USGS Quad Name						Elevat	ion 4	80	(feet) meters (circle one)
Is copy of USG.	s map mar	ked wit	h survey	area ai	nd 147.	FL sig	htings atte	rched (as re	quired)? 🔀 Yes 🔲 No
Site Coordinates: Start:	N 38	45	617	EW	67	೨೯	053	UTM	Datum 83 (NAD27 preferred)
Stone	N 38							UTM	Zone II

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

Survey # Observer(s) (Full Neme)	Date (m/d/y) Survey time	Number of Adult WIPLs	Estimated Number of Pairs	Estimated Number of Territories	Nonto Found? Yor N	Cowbirds Detected? Yor N	Presence of Liventeck, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., hird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential thream)
I Issp Stamman	Dute 5 (25 Start 0649 Seep 0 731 Total tes 50mi	φ	φ	Φ	2	2	2	
2	Date 6 6 6 Start (06 99 Start (06 99 Total bits \$1 min	φ	ф	đ	2	2	2	
3	Dat: 6 J 27- Start 0652, Stop 0786 Total for 44444	Φ	Φ	Φ	2	2	2	
4	Date 7-111 Som 0722 Som 0743 Total local from	Φ	Φ	Φ	2	۲	2	
5	Start DGOS Start DGOS	Φ	ø	φ	2	2	2	
Overall Site Si		Adults	Pairs	Territories	Norts.	Were any V	FIFLs color-bended?	Yes No
(Total resident W		Φ	Φ	φ	ø	If yes, report of form	n color combination()	() in the communits section on back

Reporting Individual Jeff Stewards Date Report Completed 7/6

US Fish and Wildlife Service Permit #TE-085036 AZ Game and Fish Department (or other state) Permit # 5-007051 CAL

			Ph	one # 4/5	649	8969
ATTRIBUTION GRACE	in and Associa	hes	E-	mail corres	anda	esocialis, com
Site Name Topac	to Compression :	otation CA-3	D	te Report Co	mpleted	
If name is differen	st, what name(s) was	used in the past?	in previous years? Yes 1	T. 1.037/-108		a comments below
			s site this year? Yes No			n comments below.
	nority for Survey Ar ment Entity or Owne	ea (circle one): (r (e.g., Tonto National	Forest) Municipal/Co	unty State	Trib	al Private
Length of area sur	veyed: 500Pt	(specify units, e.g., r	niles = mi, kilometers = kr	, meters = m)	
Vegetation Chara	cteristics: Overall, a	re the species in tree/sh	arub layer at this site compr	ised predomi	inantly o	f (check one):
Native bro	odleaf plants (entire	ly or almost entirely, i	ncludes high-elevation will	ow)		
Mixed nat	ive and exotic plant	s (mostly native)				
Mixed nat	ive and exotic plant	s (mostly exotic)				
Exotic/int	roduced plants (enti-	rely or almost entirely)				
Identify the 2-3 p	redominant tree/shru	ib species: Tamari	Romanissim/A	cacin	greg	ýi
Average height of	Cunopy (Do not pu	a runge):	P4.	(specify unit	s)	
Distance from the	site to surface water	r or saturated soil:	site? Ye/ No (circle o (specify units ts (did the site flood or dry)	(No)	circle one)
	comments section b		in (and the site incomes or any	out.		
If yes, describe in			up (REQUIRED) of the sur- oh showing details of site to ther nexts detected. Such si	cation, patch	shape, su tograph	rvey route in relation
Remember to atta of WIFL detection patch, and locatio NOT substitute fo	ns. Also include a sk n of any willow flyca		lude photos of the interior of		xtersor o	f the patch, and over.
Remember to atta of WIFL detection patch, and locatio NOT substitute for site and describe	ns. Also include a sk n of any willow flyca or the required USGS	quad map. Please inc eatures.			xterior o	f the patch, and oven
Remember to atta of WIFL detection patch, and locatio NOT substitute for site and describe	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for	quad map. Please inc eatures.			xterior o	f the patch, and over
Remember to atta of WIFL detection patch, and locatio NOT substitute for site and describe	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for	quad map. Please inc eatures.			xterior o	f the patch, and oven
Remember to atta of WIFL detection patch, and location NOT substitute for site and describe	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for	quad map. Please inc eatures.			Aleryor o	f the patch, and over
Remember to atta of WIFL detection patch, and location NOT substitute for site and describe of Comments (uttach	ns. Also include a sk n of any willow flyca w the required USGS any unique habitat for a additional sheets if	quad map. Please inc eatures.			Aleryor o	f the patch, and over
Remember to atta of WIFL detection patch, and locatio NOT substitute for site and describe	ns. Also include a sk n of any willow flyca w the required USGS any unique habitat for a additional sheets if	quad map. Please inc eatures.			Aleryor o	f the putch, and over
Remember to atta of WIFL detection NOT substitute fo site and describe a Comments (uttach WIFL Detection)	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for a additional sheets if	equad map. Please incleatures.	lude photos of the interior of	f the patch, e	Alerior o	
Remember to atta of WIFL detection NOT substitute fo site and describe a Comments (uttach WIFL Detection)	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for a additional sheets if	equad map. Please incleatures.	lude photos of the interior of	f the patch, e	Alerior o	
Remember to atta of WIFL detection NOT substitute fo site and describe a Comments (uttach WIFL Detection)	ns. Also include a sk n of any willow flyca or the required USGS any unique habitat for a additional sheets if	equad map. Please incleatures.	lude photos of the interior of	f the patch, e	Alerior o	

Site Nume Tolkels Comp	10063	et S	tection	CA-3				State	CA	County	San Bee	wati	Giri
USGS Quad Name		Topo	ĸK_	TP. CT			_ Ele	vation	44	6	(6	eet) m	eters (circle one)
Is copy of USGS	S ma	p ma	rked m	ith survey	area a	nd F	VIFL	sightings	attachi	ed (as req	wired)? 🗵	7 Yes	□ No
Site Coordinates: Start:	N	38	45	653	E (I	07	37	198	t	ЛМ	Datum	83	(NAD27 preferred)
Stop:	N	38	45	544	Ett	07	29	582	t	TM	Zone		

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

Servey # Observer(x) (Full Name)	Date (mWy) Survey time	Number of Adult WIPLs	Estimated Number of Pairs	Fishinated Number of Territories	Next(s) Found? Y or N	Cowbinds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (x.g., hird behavior, oridence of pairs or hecoding, number of nests, nest contents or number of Bedges seen, potential thruns)
Sharmena	Date 5 20 Start 0803 Start 0845 Total Ins 42 Min	ф	φ	ø	2	2	N	
2	Date 6 5 Start 0555 (Stop 0630 Total land 7 April	φ	a	q	N	2	N	
3	Date 6 36 Start 0678 Stop 0711 Total for \$3 min	φ	q	Ø	2	2	2	
4	Date 7 NO Start OG SO Start OG SO Start OG SO Start OG SO	φ	ø	a	2	2	2	
, \	Date 7 15 Start 0783 Sep0007 Total Ins3466	Φ	Φ	4	2	2	2	
Overall Site Si		Adults	Pain	Territories	Nests	Were any W	TFLs color-handed?	Yes No
(Total survey h	10	φ	ø	φ	ø	If yes, report of form	t color combination(s) in the comments section on back

Reporting Individual JAF Sternman Dute Report Completed 8 15
US Fish and Wildlife Service Permit #16-0850a6 AZ Game and Fish Department (or other state) Permit #5-00388 CAL

	un Jeff Stema			Phone # 4	115 642	8969
Affiliation Gests	in and Assa	anks		E-mail	chertoist	ssoarles.com
Site Name Topic	k Compression	Station CA-	4	Date Repb	rt Completed	Constitution and the second
Did you verify tha	t this site name is co	nsistent with that use	d in previous years? (Ye	No (circ	cle one)	
If name is differen	d, what name(s) was	used in the past?	~		(100.00.00.00	
If site was surveye	ed last year, did you	survey the same gene	ral area this year? Yes	No If no	, summarize i	n comments below.
Did you survey the	e same general area o	furing each visit to th	is site this year? Yes	No If no	, summarize l	n comments below.
Management Auth	ority for Survey Are	a (picele anale	(Federal) Municipal	/County	State Tribs	d Brigate
		(e.g., Tonto Nationa			20000 11100	i i i i i i i i i i i i i i i i i i i
	-			Zeren i i roman	CHECKY	
Length of area sur	veyed: 800 ff	(specify units, e.g.,	miles = mi, kilometers =	km, meters	-m)	
Vegetation Charac	teristics: Overall, an	e the species in tree/s	hrub layer at this site co	mprised pre	dominantly o	(check one):
Native bro	adleuf plunts (entire)	y or almost entirely,	includes high-elevation v	willow)		
Mixed nati	ive and exotic plants	(mostly native)				
_		TO DECEMBE				
Mixed nat	ive and exotic plants	(mostly exotic)				
Exotic/intr	roduced plants (entire	ely or almost entirely)			
Identify the 2-3 pr	redominant tree/shrul	species: James	A RAMORISSIM	1 Aca	cia gre	ngii
	canopy (Do not put	mercon engage		(specify	7	5
A confine incoller no	eminby from not but	12		(specia)	, unitary	
Was surfless water	or estument soll no	ment at or adjacent to	site? Yes No (circ	(ama)		
Distance from the	site to surface water	or saturated soil:	d (specify to			
					0	and the second
	conditions change sig comments section b		its (did the site flood or	dry out)?	Yes (No) (rirele one)
ii yes, uescribe in	comments section o	esow.				
Remember to attac	cha copy of a USGS	quad/topographical m	up (REQUIRED) of the	survey area.	outlining the	survey site and location
of WIFL detection	is. Also include a ske	tch or aerial photogra	ph showing details of sit	e location, p	atch shape, su	rvey route in relation
			tcher nests detected. Suc			
			clude photos of the interi-	or of the pat	ch, exterior of	the patch, and over
sile and describe i	any unique habitat fe	atures.				
Comments (attach	additional sheets if	necessary)				
WIFL Detection I	ocations:					
Date Detected	NUTM	EUTM	Date Detected	NUT	м	EUTM
Communication of the Communica	1.010	15VIII	Date Deleging	18,011		COIM

Site Name Topack Ce	OWN DATES A	N 56	then (CA-4			State C	A County	Sm Be	CKMC	lou
JSGS Quad Nilme	Topock	100				Eleva	tion	500	(4	eet m	eters (circle one)
Ix copy of USG:	8 тар та	rked w	ith survey	erea as	ut WI	FL sig	htings att	ached (as re	quired)? [2	Yes	□ Nσ
Site Coordinates: Start:	N 38	45	150	E [1	07	39	384	UTM	Datum	ಕತ	(NAD27 preferred)
Stop:	N 38	45	317	EIL	07	29	537	UTM	Zone	11	

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

Survey# Observer(s) (Full Name)	Date (m/d/y) Survey fame	Number of Adult WIFLs	Hatimated Number of Pairs	Estimated Number of Territories	Nest(x) 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 nesss, nest consents or number of Bedges seen; potential stream)
Jeff Skinnen	Date 5 23 Start 05'45" Stop 06'43 Total las 58'4 in	φ	φ	Φ	~	2	2	
2	Date 6 5 Start 0.75) Stop 0.821 Total las 50 min	φ	ø	ø	2	2	2	
3	Date 6/86 Start 09/8 Stop OS04 Total bits Spanie	Φ	φ	ø	2	2	2	
4	Date 7 10 Start 0706 Stop 0753 Total lass 47emin	φ	ø	Φ	2	2	N	
\$ 	State CAGO) State CAGO Total hrs Maris	φ	φ	ø	2	2	2	
Overall Site Su (Tond resident Wi Total survey br	FLs only)	Adalts	Pains Ø	Territories	Nests Ø		TFLs color-beaded? color combination(s	Yes No) in the consumnts section on back

Reporting Individual Teff Statement Date Report Completed 8 /15
US Fish and Wildlife Service Permit # 75-025036 AZ Game and Fish Department (or other state) Permit # 56-60-7861 CAC

FIII in the following information completely. Submit original form by August I". Retain a copy for your records. Reporting Individual Jeff Steinman Phone # 405 642 8969 Affiliation Gateur and Associates Site Name Topek Compressor Station CA-5 E-muil parcinand 155 scrates . com. Date Report Completed 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 post? If site was surveyed last year, did you survey the same general area this year? Yes No Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below. Federal Municipal/County State Tribal Private Management Authority for Survey Area (circle one): Name of Management Entity or Owner (e.g., Tonto National Forest) USFWS HAVYSU WILDLIFE RETURE Length of area surveyed: 400-fl (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: Tamaria Romostissium Acacin grassi Average height of canopy (Do not put a range): 10 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: d (specify units) Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yel/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 mute 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) WIFL Detection Locations: Date Detected NUTM EUTM Date Detected ЕИТМ NUTM

Site Name Topack Ca	MA DINES	er St	ntrain i	ch.	5			State C	A County	Sam B	LEMAR	lino
ISGS Quad Name To	pack						levati	on	500		cet m	ters (circle one)
Is copy of USG:	map ma	rked w	ith survey	area	e an	d WIF	L sigl	stings atta	ched (as re	quired)?	Yes	□ No
Site Coordinates: Start:	N 38	44	738	Е	и	07	27	889	UTM	Datum	83	(NAD27 preferred)
Stop:								130		Zone		Section and section in

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

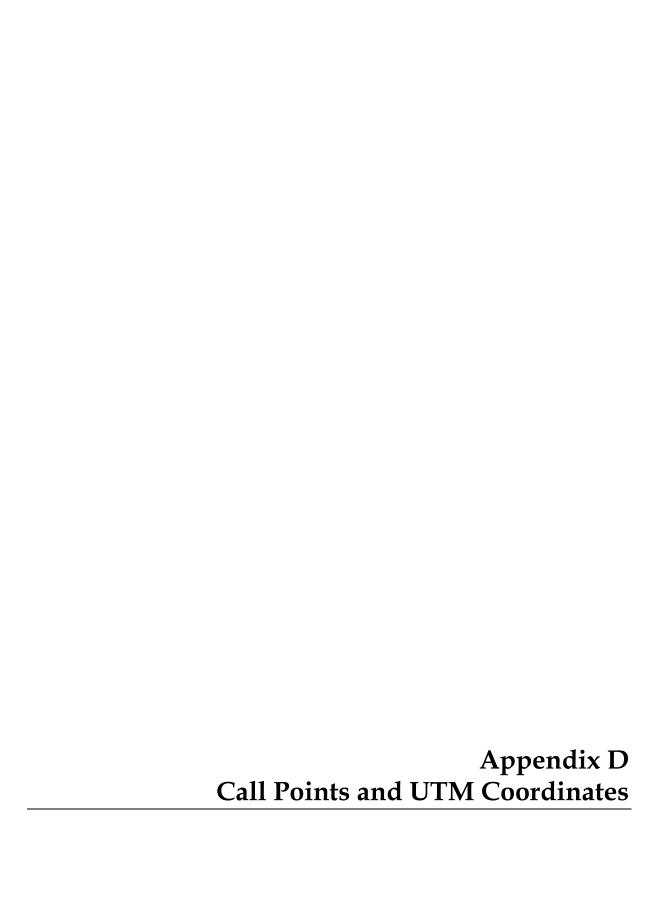
Survey# Observer(s) (Full Name)	Date (m/d/y) Sorvey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbints Descript? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or beneding, number of nexts, nest contents or number of fledges seen; potential threen)
Strivman	Deer 5 80 Start 0543 Step 0646 Total less (4634)	φ	ø	φ	2	2	N	
2	Date 6 6 Start 0756 Stop 0850 Total tax 57mm	φ	ø	ø	N	n	N	
3	Date 6 37- Num 0740 Stop 0831 Total les 5/ weis	Φ	Φ	Φ	N	N	N	
4	Start O653 Stop C717 Total les 44 vivin	φ	Ø	Ø	2	2	N	
\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Date 7 16 Start 0635 Stap 0930 Total hrs 75mm	φ	Φ	φ	2	۲	2	
Overall Site St		Adults	Pairs	Territories	Nests	Were any W	IFLs color-handed?	Yes No
(Total survey h	2000 Table	ø	ø	Ø	φ	If yes, report of form	t color combination(s) in the comments section on back

Reporting Individual JEFF Strumon Date Report Completed 8/15
US Fish and Wildlife Service Permit #TE-085036 AZ Game and Fish Department (or other state) Permit # 50 007801 CAL

A Collinsticia C	us Jeff Stemmer	ν		Phone # 415 644	
Site Name Topo	in and Associate in Compressor State	tion CA-6		Date Report Comple	d acceptation, control
Did you verify the If name is different If site was survey	at this site name is consist at, what name(s) was used and last year, did you surv- e same general area durin	tent with that used I in the past? ey the same generi	al area this year? (Ver)	No (circle one)	re in comments below.
Management Auti	nority for Survey Area (c	ircle one):	Federa) Municipal		ribal Private
Length of area sur	veyed: <u>500 f</u> y (sp	ecify units, e.g., m	niles = mi, kilometers =	km, meters = m)	
Vegetation Chara	nteristics: Overall, are the	species in tree/sh	rub layer at this site cos	oprised prodominantly	y of (check one):
Native bro	sadicaf plants (entirely or	almost entirely, in	ncludes high-elevation v	rillow)	
Mixed nat	ive and exotic plants (mo	stly native)			
Mixed nat	ive and exotic plants (mo	stly exotic)			
Exotic/intr	roduced plants (entirely o	e almost entirely)			
dentify the 2-3 pr	redominant tree/shrub spe	cies Tamacia c	amonusia /Aco	kin aveniii/Ce	reidium microp
	canopy (Do not put a rae				
Was surface water	or saturated soil present site to surface water or s	at or adjacent to s	ite? Yes No (circle 20 ft (specify un	(specify units) e one) its)	
Was surface water Distance from the Distance from the If yes, describe in Remember to attas of WIFL detection patch, and location NOT substitute for site and describe a	r or saturated soil present	at or adjacent to a attriuted soil: cantly among visit /topographical ma or aerist photograp s or willow flycate i map. Please inch s.	ite? Yes No (circle 2007) (specify un a (did the site flood or de p (REQUIRED) of the a h showing details of site ther nests detected. Such	r one) its) ry out)? Yes (No_ servey area, outlining it location, patch shape, sketiches or photoerne	he survey site and locati survey route in relation his are welcomed, but I
Was surface water Distance from the Did hydrological of yes, describe in Remember to attas of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or or saturated soil present site to surface water or a conditions change signifi- comments section below th a copy of a USGS quad a. Also include a sketch of a of any willow flycatcher the required USGS quae any unique habitat featura additional sheets if noce	at or adjacent to a attriuted soil: cantly among visit /topographical ma or aerist photograp s or willow flycate i map. Please inch s.	ite? Yes No (circle 2007) (specify un a (did the site flood or de p (REQUIRED) of the a h showing details of site ther nests detected. Such	r one) its) ry out)? Yes (No_ servey area, outlining it location, patch shape, sketiches or photoerne	he survey site and locati survey route in relation his are welcomed, but I
Was surface water Distance from the Distance from the If yes, describe in Remember to attas of WIFL detection patch, and location NOT substitute for site and describe a	or saturated soil present site to surface water or s conditions change signifi- comments section below that copy of a USGS quad a. Also include a sketch of a of any willow flycatcher the required USGS quat any unique habitat feature additional sheets if nece	at or adjacent to a attirated soil: cantly among visite /topographical may or aerial photograp is or willow flycated imap. Please inch is.	inte? Yes No (circle specify un se (did the site flood or de p (REQUIRED) of the sh showing details of site ther nests detected. Such ode photos of the interior	e one) its) ry out)? Yes (No., urvey area, outlining it location, patch shape, sketches or photograp r of the patch, exterior	he survey site and locati survey route in relation shis are welcomed, but D r of the patch, and over
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attas of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or or saturated soil present site to surface water or a conditions change signifi- comments section below th a copy of a USGS quad a. Also include a sketch of a of any willow flycatcher the required USGS quae any unique habitat featura additional sheets if noce	at or adjacent to a attriuted soil: cantly among visit /topographical ma or aerist photograp s or willow flycate i map. Please inch s.	ite? Yes No (circle 2007) (specify un a (did the site flood or de p (REQUIRED) of the a h showing details of site ther nests detected. Such	e one) its) ry out)? Yes (No_ servey area, outlining it location, patch shape, sketiches or photoerne	he survey site and locati survey route in relation his are welcomed, but I
Was surface water Distance from the Did hydrological of If yes, describe in Remember to attas of WIFL detection patch, and location NOT substitute for site and describe a Comments (attach	or saturated soil present site to surface water or s conditions change signifi- comments section below that copy of a USGS quad a. Also include a sketch of a of any willow flycatcher the required USGS quat any unique habitat feature additional sheets if nece	at or adjacent to a attirated soil: cantly among visite /topographical may or aerial photograp is or willow flycated imap. Please inch is.	inte? Yes No (circle specify un se (did the site flood or de p (REQUIRED) of the sh showing details of site ther nests detected. Such ode photos of the interior	e one) its) ry out)? Yes (No., urvey area, outlining it location, patch shape, sketches or photograp r of the patch, exterior	he survey site and locati survey route in relation shis are welcomed, but D r of the patch, and over

Willow Flycatcher Survey and Detection Form (revised April, 2004) Site Name Toock Compressed States CA County San Berneline USGS Quad Name Toock Elevation 450 feet Inneters (circle one) It copy of USGS map marked with survey area and WIFL sightings attached (as requires)? Feet No Site Coordinates: Start: N 38 45 406 E 11 07 37 101 UTM Dutum 83 (NAD27 profured) Stop: N 32 45 444 E 11 07 37 350 UTM Zone 11

Survey # Observer(s) (Full Name)	Einte (m/6/y) Sorvey tiene	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Next(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recret sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs ar breeding, sumber of macks, east contents or number of fledges seem; potential threats)
1 Jeff Shruman	Date S 80 Start O6575 Stop OC50 3 Total Inn Mr Swin	ø	φ	Φ	N	7	N ₀	
2	Date 6 5 Start 0630 Stop 0723 Total hrs 53 min	Φ	ď	ø	2	2	ηo	
3	Date Style 6 36 Storn 0550 Storn 0638 Testal her 4844	ø	ø	φ	N	2	Yes Burns	
4	Des 7/10 Start O 542 Stop O 680 Total les 48	ф	φ	ф	N	2	Yes Burro	
5	Start OG 55 Stop O735 Total hts 35+44	φ	ø	9	N	2	Yes Burro	
Overall Site Summury (Total resident WiFLs only) Total survey hrs 4 k laws		Adalix	Pairs	Territories	Nests	Were my W	TFLs color-bunded?	Yes No
		φ	φ	Φ	φ	If yex, report color combination(s) in the aumments section on back of form		



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
	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
3E	34.7276294	114.4970733

Call Point	Northing	Easting
3F	34.7272984	114.4976113
3G	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
	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
6K	34.7250157	114.4963497
6R	34.7253507	114.4974186
6S	34.7250823	114.4979739
	Site A	
A1	34.720193	114.4869984

Call Point	Northing	Easting
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
A43	34.7205603	114.4849893
A44	34.721329	114.4849859
A6	34.7219756	114.4855115

Call Point	Northing	Easting
A7	34.722068	114.4846749
A8	34.7224913	114.4851773
A9	34.7227674	114.4857807