

APPENDIX D-1

*45-Day Summary Reports of Protocol Surveys for
Least Bell's Vireo and
Southwestern Willow Flycatcher*



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August 30, 2010

Ms. Sandy Marquez
Recovery Permit Coordinator
Carlsbad Fish and Wildlife Office
6010 Hidden Valley Road, Suite 101
Carlsbad, California 92011

RE: 45-Day Summary Report of Protocol Surveys for Least Bell's Vireo for the Campo Wind Energy Project

Dear Ms. Marquez:

This letter summarizes results of protocol surveys conducted during 2010 by AECOM to determine the presence or absence of the least Bell's vireo (*Vireo bellii pusillus*; LBV) within the proposed Campo Wind Energy Project area in San Diego County (Figure 1). Surveys were conducted on behalf of the Campo Band of Mission Indians (a California federally recognized Indian tribe), Muht-Hei, Inc. (a tribally chartered corporation wholly owned by the Campo Band of Mission Indians), the Bureau of Indian Affairs, and Invenergy Wind California, LLC.

Project Description

The Campo Band of Mission Indians, Muht-Hei, the Bureau of Indian Affairs, and Invenergy Wind California propose the construction and operation of a wind energy generation facility on the Campo Indian Reservation in southeastern San Diego County. This facility would be capable of generating up to 300 megawatts (MW) of electricity and would include wind turbines, substations, transmission facilities, operations and maintenance building, and access roads. The project is currently being designed, but generally, strings of 2.5-MW turbines are being considered for installation across ridgelines throughout the reservation that do not contain residences, including areas north and south of both Interstate 8 (I-8) and State Route 94. Each turbine would be set on a large concrete foundation. Turbines would be connected by underground electrical cables to one or two substations. Each substation would be sited on approximately 2 to 3 acres and would consist of a graveled, fenced area containing transformers and switching equipment and an area to park utility vehicles. In addition, a three-phase overhead transmission line would be constructed from each substation to connect the project to the existing transmission network. A temporary concrete batch plant would likely be necessary during construction. The biological survey area (BSA) identified for the proposed project is approximately 4,417 acres. This acreage encompasses the area within which all proposed project features would be located, with a 500-foot buffer around new proposed components (i.e. turbines, substations and transmission facilities) and a 100-foot buffer around existing features (i.e., existing roads) that are proposed to be used or modified.

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Site Description

The Campo Indian Reservation includes lands both north and south of I-8 along the Tecate Divide, extending from the Manzanita Indian Reservation to the north and south to 0.25 mile north of the California/Mexico international border (Figure 1). The reservation is located between the communities of Old Campo and Jacumba, around the community of Live Oak Springs, and is bisected by Church Road (Figure 2). On-site elevation ranges from approximately 3,030 to 4,320 feet above mean sea level.

The BSA supports a variety of habitat types and vegetation communities but is dominated by chamise chaparral with both a monotypic phase and a mixed chaparral phase. Additional vegetation communities found throughout the site and especially along ridges and slopes include redshank chaparral, big sagebrush scrub, and Sonoran subshrub scrub. A series of north-south-running ridges is located throughout the proposed project site separated by shallow valleys consisting of coast live oak woodland, nonnative grassland, and southern willow scrub vegetation. Buckwheat scrub is interspersed throughout the chamise chaparral primarily in shallow valleys, along washes and roads, and along firebreaks. Various large rock outcrops are scattered throughout the site but are primarily located along the ridgelines.

Background Information

The LBV was listed as endangered by the U.S. Fish and Wildlife Service (USFWS) on May 2, 1986 (Federal Register 51[85]:16474–16481), with designated critical habitat (Federal Register 59[22]:4845–4867). This listing status applies to the entire population of LBV. A draft recovery plan was written by USFWS and circulated for review in 1998 (USFWS 1998). No critical habitat occurs within the BSA. The California Department of Fish and Game listed this subspecies as endangered on October 2, 1980.

Historically, this subspecies was a common summer visitor to riparian habitat throughout much of California. Currently, the LBV is found only in riparian woodlands in Southern California, with the majority of breeding pairs in San Diego, Santa Barbara, and Riverside counties. Substantial LBV populations are currently found on five rivers in San Diego County (the Tijuana, Sweetwater, San Diego, San Luis Rey, and Santa Margarita rivers), with smaller populations on other drainages. During 1996, a total of 1,423 territorial males was recorded within San Diego County (Unitt 2004). From 2001 through 2005, a total of 1,609 pairs was recorded in San Diego County, which accounts for approximately 54% of the total LBV population within California (USFWS 2006).

The LBV is migratory and arrives in San Diego County in late March through early April and leaves for its wintering grounds in September. The LBV primarily occupies riparian woodlands that include dense to moderately open cover within 3 to 7 feet of the ground and a dense, stratified canopy. The subspecies inhabits low, dense riparian growth along water or along dry parts of intermittent streams. The understory is typically dominated by species of willow (*Salix* sp.) and mulefat (*Baccharis salicifolia*). Overstory species typically include cottonwood (*Populus* sp.), western sycamore (*Platanus racemosa*), and mature willows. The

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subspecies typically builds nests in vegetation 3 to 4 feet above the ground (Salata 1984) where moderately open midstory cover occurs with an overstory of willows, cottonwoods, sycamores, or coast live oaks (*Quercus agrifolia*). Nests are also often placed along internal or external edges of riparian thickets at an average of 3.3 feet above the ground (Unitt 2004). Riparian plant succession is an important factor in maintaining vireo habitat.

The LBV's decline is attributed to loss, degradation, and fragmentation of riparian habitat combined with brood and nest parasitism by the brown-headed cowbird (*Molothrus ater*; BHCO). LBVs are known to be sensitive to many forms of disturbance, including noise, night-lighting, and consistent human presence. Due to concerted programs focused on preserving, enhancing, and creating suitable nesting habitat, the LBV population has steadily increased in size along several of its breeding drainages in Southern California. Significant increases in breeding populations have occurred along the Santa Ana River at Prado Basin and on the Santa Margarita River on Marine Corps Base Camp Pendleton, as well as at several other sites throughout the region.

Survey Methodology

Prior to the initiation of surveys, regional databases were searched to determine the closest known occurrences of LBV in the vicinity of the BSA. A search of the California Natural Diversity Database (CDFG 2010) and the eBird database (eBird 2010) resulted in two documented LBV locations in 1991 and 1992, ranging from approximately 8.15 to 8.2 miles (possibly representing the same individual or pair) to the northwest of the BSA in Cottonwood Creek.

A habitat assessment focusing on suitable LBV habitats within and adjacent to the BSA was completed by qualified AECOM biologists James McMorrان and Erin Riley on April 17 and April 22, 2010. Contiguous riparian areas either within the BSA or within the immediate vicinity of the BSA were assessed. Areas mapped as suitable LBV habitat included all riparian willow forest and riparian willow scrub associations, and upland and wetland habitats adjacent to areas of scrub. Riparian areas adjacent to the BSA with optimal LBV habitat were considered when they were contiguous with suitable habitat in the BSA because of the nature of the forthcoming risk assessment for the proposed wind farm project. This approach ensures maximum potential for detectability of LBVs migrating through or breeding in the vicinity of the project but outside of the footprint. Four areas within or adjacent to the BSA were found to have habitat suitable to support LBV, and an overview of these areas is depicted in Figure 3. Three of the four LBV Survey Areas are located in the southern half of the BSA (LBV Survey Areas 2, 3, and 4), and the remaining survey area (LBV Survey Area 6) is located in the northern half (Figure 3). The LBV Survey Area numbering system (2, 3, 4, and 6) is consistent with an ongoing Bird Area Search study that shares several of the areas surveyed for LBV. Approximately 6.24 acres of suitable LBV habitat occur within the BSA, and approximately 21.11 acres occur outside of the BSA (contiguous with LBV habitat within the BSA), providing a combined total of approximately 27.35 acres of surveyed suitable LBV habitat (Figures 4a, 4b, 4c, and 4d).

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LBV surveys followed the current USFWS survey protocol for the subspecies (USFWS 2001). The surveys consisted of walking through potential LBV habitat. Qualified AECOM biologists conducted passive surveillance (i.e., listening and looking for the species) in all four areas mapped as suitable habitat to support LBV. Per the current USFWS protocol, suitable habitat within the BSA was surveyed eight times, at least 10 days apart, during the 2010 breeding season. Surveys were completed between dawn and 11 a.m. In addition to any LBV observations/detections, all avian species detected were recorded on field datasheets, and BHCOS were mapped upon their initial sighting in a survey area.

Results

Protocol-level LBV surveys were conducted between April 23 and July 16, 2010, within the BSA and adjacent areas of suitable LBV habitat (Table 1). A summary of survey data is presented in Table 1, including date of survey, survey number, time, weather conditions, field biologists, and LBV observations. Field notes are presented in Appendix A.

Table 1
Least Bell's Vireo Protocol Surveys
Dates, Personnel, Weather Conditions, and Results

Date	Survey Period	Surveyors	Time	Weather Conditions	LBV Observed
04/23/10	1	James McMorran	0525–1008	Start: 34°F, wind 0–2 mph, 0% cover End: 62°F, wind 1–2 mph, 0% cover	None
05/07/10	2	James McMorran	0621–1100	Start: 56°F, wind 1–2 mph, 0% cover End: 75°F, wind 2–7 mph, 0% cover	None
05/17/10	3	Andrew Fisher	0634–1016	Start: 50°F, wind 0–2mph, 100% cover End: 67°F, wind 1–3 mph, 100% cover	None
05/27/10	4	Andrew Fisher Erin Riley	0520–1106	Start: 44°F, wind 0–1 mph, 30% cover End: 62°F, wind 2–6 mph, 5% cover	None
06/10/10	5	James McMorran Erin Riley	0504–1102	Start: 56°F, wind 0–4 mph, 0% cover End: 74°F, wind 5–16 mph, 0% cover	None
06/21/10	6	Erik LaCoste	0515–1035	Start: 48°F, wind 0–2 mph, 0% cover End: 80°F, wind 2–5 mph, 0% cover	None
07/06/10	7	James McMorran Doug Willick	0517–1003	Start: 48°F, wind 0–3 mph, 0% cover End: 76°F, wind 0–2 mph, 0% cover	None
07/16/10	8	Brennan Mulrooney Erin Riley	0522–1003	Start: 71°F, wind 0 mph, 0% cover End: 90°F, wind 0–3 mph, 0% cover	None

No LBVs were detected within the survey areas during spring 2010. BHCOS were detected at two survey locations adjacent to the BSA (Figures 4b and 4c), with a maximum number of five individuals observed on two occasions (in April and June). A summary of the BHCOS detected is provided in Table 2.

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Table 2
Summary of Brown-Headed Cowbird Observations
by Survey Period

Survey Period	Survey Date	Number of BHCO Individuals Detected
1	04/23/10	5
2	05/07/10	1
3	05/17/10	1
4	05/27/10	1
5	06/10/10	5
6	06/21/10	0
7	07/06/10	2
8	07/16/10	0

Discussion

Protocol-level surveys for LBV did not yield any sign of this subspecies within the BSA or adjacent suitable habitat on the reservation during spring migration or the nesting period. The closest LBV individual/pair is approximately 8 miles northwest of the BSA, and the next closest is approximately 10 miles west of the BSA (CNDDDB 2010).

If you have any questions or comments regarding this report, please contact me at (619) 233-1454.

Sincerely,



James McMorran
Wildlife Biologist
james.mcmorran@aecom.com

Attachments: Figure 1 – Regional Map
Figure 2 – Vicinity Map
Figure 3 – Least Bell's Vireo Survey Area Overview
Figure 4a – Least Bell's Vireo Survey Area 2 Results
Figure 4b – Least Bell's Vireo Survey Area 3 Results
Figure 4c – Least Bell's Vireo Survey Area 4 Results
Figure 4d – Least Bell's Vireo Survey Area 6 Results
Appendix A – Field Data Sheets

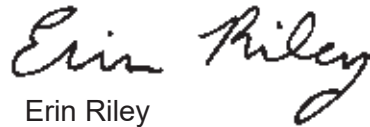
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Certification

Qualified biologists who conducted LBV surveys for the Campo Wind Energy Site certify that the information in this survey report fully and accurately represents the work performed by AECOM biologists. Signatures of current AECOM biologists as listed in Table 1 who conducted protocol-level surveys (April 23 through July 16, 2010) are included below. The results of protocol-level surveys for listed species are typically considered valid for 1 year by the resource agencies.



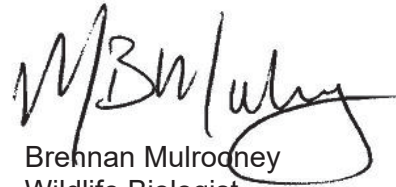
Andrew Fisher
Wildlife Biologist



Erin Riley
Wildlife Biologist



Doug Willick
Wildlife Biologist



Brennan Mulrodney
Wildlife Biologist



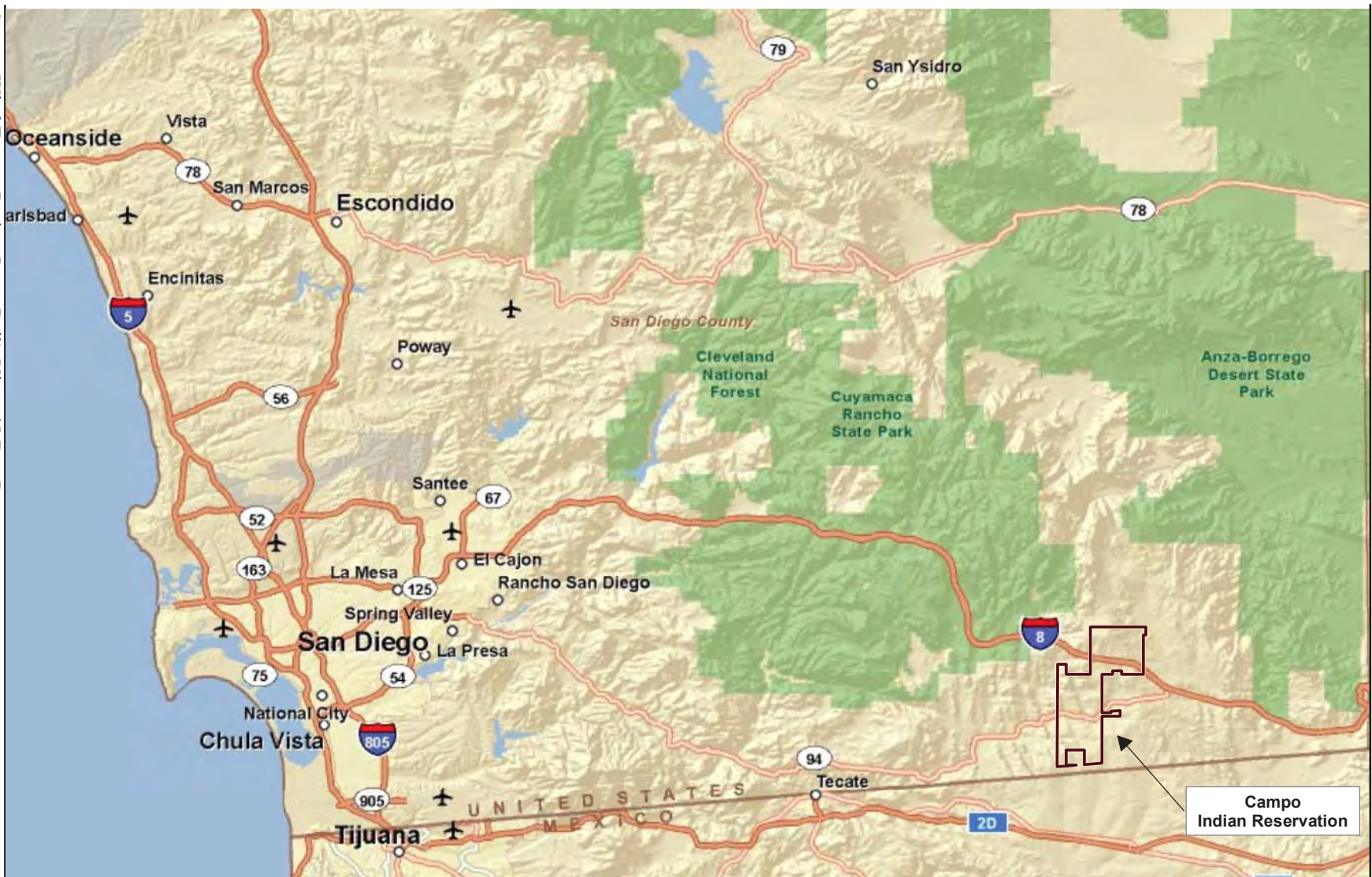
Erik LaCoste
Wildlife Biologist

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Literature Cited

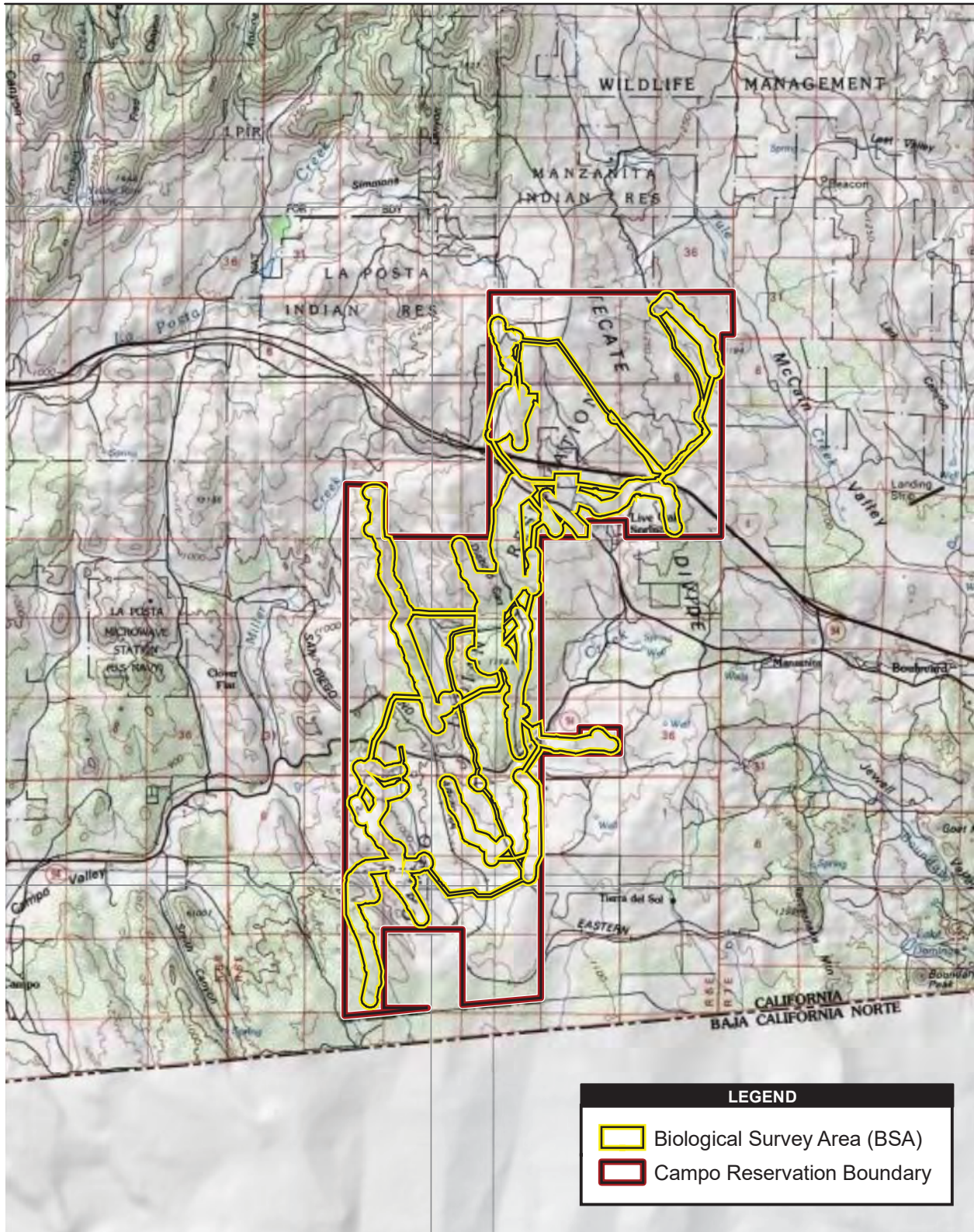
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- Unitt, Phillip. 2004. San Diego County Bird Atlas. San Diego Natural History Museum, P.O. Box 121390 San Diego, CA 92112-1390. Ibis Publishing Company.
- U.S. Fish and Wildlife Service (USFWS). 1998. Draft Recovery Plan for the Least Bell's Vireo. Fish and Wildlife Service, Portland, Oregon. 139 pp.
- U.S. Fish and Wildlife Service (USFWS). 2001. Least Bell's Vireo Survey Guidelines. Carlsbad Fish and Wildlife Office. January 19, 2001.
- U.S. Fish and Wildlife Service (USFWS). 2006. Least Bell's Vireo (*Vireo bellii pusillus*) 5-year Review Summary and Evaluation. Carlsbad Fish and Wildlife Office, Carlsbad, California. September.

FIGURES



Campo Indian Reservation

Figure 1
Regional Map



Source: Tierra del Sol 1959; Live Oak Springs 1975; Campo 1959; Cameron Corners 1988

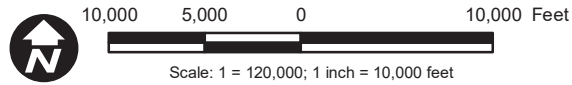
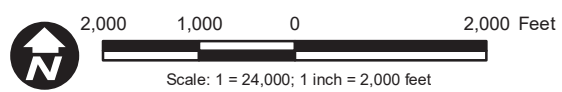


Figure 2
Vicinity Map



Source: DigitalGlobe 2008; Invenergy 2010; AECOM 2010



Least Bell's Vireo Survey Area: 27.35 acres (total)
 Biological Survey Area (BSA): 4,417 acres
 Campo Reservation Boundary

Figure 3
Least Bell's Vireo Survey Areas Overview



Source: DigitalGlobe 2008; Invernergy 2010; AECOM 2010

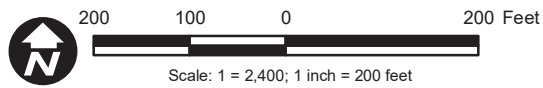


Figure 4a
Least Bell's Vireo
Survey Area 2 Results



Source: DigitalGlobe 2008; Inverenergy 2010; AECOM 2010

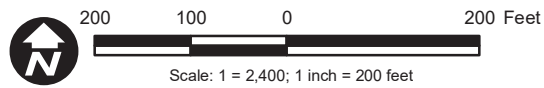


Figure 4b
Least Bell's Vireo
Survey Area 3 Results



Source: DigitalGlobe 2008; Invenery 2010; AECOM 2010

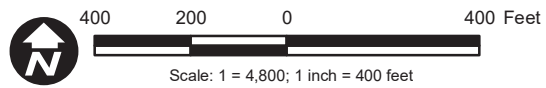


Figure 4c
Least Bell's Vireo
Survey Area 4 Results



Figure 4d
Least Bell's Vireo
Survey Area 6 Results

APPENDIX A
FIELD DATA SHEETS

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 1 STATION: BASC

DATE: 4/23/10 OBSERVER: JMC START TIME: 0525 END TIME: 0555 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD ~~(FAIR)~~ ¹ ~~(POOR)~~ CLOUD COVER (%) 0% / 0% TEMP (°F) 34° / 36°

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ^{1,2} ~~(NW)~~ n/a SPEED (MPH) Low: 0 High: 1.3 Ave: 0.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} ~~(None)~~ light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			SPTO			2			N		
2			HowlR			2			N		
3			CALT			1			N		
4			AMCR			1			N		
5			WEST			1			N		
6			CORA			1			N		
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 1 STATION: BAS-3

DATE: 4/23/10 OBSERVER: JMC START TIME: 0621 END TIME: 0651 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) 1,2 GOOD FAIR POOR CLOUD COVER (%) 0% / 0% TEMP (°F) 38.7 / 37.6

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW 1,2 W NW n/a SPEED (MPH) Low: 0 / 0 High: 3 / 3 Ave: 0.8 / 0.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) 1,2 None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			SPTO								MULTIPLE INDIVIDUALS
2			CATH								
3			HOWR								MULTIPLE INDIVIDUALS
4			NOFL								
5			OATI								
6			ACWO								
7			WEST								
8			CORA								
9			LEGO								
10			AMCR							✓	
11			BHCO								
12			WIWA								
13			EUST								
14			WBNU								
15			CAOV							✓	
16			SOSP							✓	
17			BTYW								
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

[†] Special Status species and all raptors

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: BAS-4

DATE: 4/23/10 OBSERVER: JMC START TIME: 0715 END TIME: 0745 GPS SM14 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0% 0% TEMP (°F) 45.2 45.4

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ^{1,2} W NW n/a SPEED (MPH) Low: 0 1 0 High: 1.5 4.0 Ave: 0 1 2.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1			Buor	M	AD	2					
2			Buor	F	AD	2					
3			RWBL			40					
4			ACWO			5					
5			LEGO			12					
6			EOST			15					
7			MODO			5					
8			YNAR			7					
9			BHGR			3					
10			WAMI			6					
11			BHCO			4					
12			WIWA			8					
13			COYE			2					
14			CORA			1				✓	
15			HOWR			2					
16			NAWA			5					
17			SOSP			1					
18			SPTO			1					
19			LAZB			8					
20			NUWO			1					

* check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

† Special Status species and all raptors

Comments per observation #: DATA ON BACK

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21			ATFL			1					
22			LAGO			5					
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank Chaparral	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping	BSS	Big Sagebrush Scrub	BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circle Soaring	SSS	Upper Sonoran Subshrub Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Hunting/ Foraging	SOCH	Scrub Oak Chaparral	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
OT	Other	CLOW	Coast Live Oak Woodland	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
		SWS	Southern Willow Scrub	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
		NNG	Nonnative Grassland	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
				RP	California rufous-crowned sparrow	ME	Merlin	YB	Western yellow-billed cuckoo
				CW	Coastal cactus wren	NH	Northern harrier	YW	Yellow warbler
				CG	Coastal California gnatcatcher	PF	Peregrine falcon	YC	Yellow-breasted chat
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 1

STATION: BAS-2

DATE: 4/23/10 OBSERVER: JMC START TIME: 0850 END TIME: 0920 GPSSM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD^{1,2} FAIR POOR CLOUD COVER (%) 0% / 0% TEMP (°F) 64.2 / 64.2

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW^{1,2} n/a SPEED (MPH) Low: 0 10.2 High: 12.2 Ave: 0.81 1.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None^{1,2} light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			LEGO			12				✓	
2			CORA			1				✓	
3			HOWR			5				✓	
4			HOPI			2				✓	
5			OATI			6				✓	
6			WIWA			3					
7			SPTO			2				✓	
8			WBNV			1					
9			MODD			1					
10			NUWD			1					
11			VRWA			4					'Audubon's'
12			ACWO			3					
13			SOSP			5					
14			BT/W			1					
15			TOWA			4					
16			WAVI			1					
17			HUVI			1					
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 2

STATION 3

DATE: 5/7/10 OBSERVER: JMC START TIME: 0822 END TIME: 0852 GPS Sm/4 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 68.3/73.8

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} NE E SE S SW W NW n/a SPEED (MPH) Low: 1.1/1.0 High: 6.7/5.3 Ave: 2.5/2.2

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			HWR						N		
2			OAT1						N		
3			YWAR						N		
4			ACW0						N		
5			WEST						N		
6			SPTO						N		
7			BHLO						N		
8			YWAR						N		
9			SOSP						N		
10			LEGO						N		
11			BHGR						N		
12			WJWA						N		
13			COYE						N		
14			NUWO						N		
15			NOFL						N		
16	0836	JMWIFLO1	WIFL	U	AD	1	PE, HU	RIP	N		NONE
17			LAZB						N		
18			DEJU						N		
19			YWAR						N		
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: #16 - WIFL WAS SEEN BRIEFLY PERCHED + FLYCAPTURING IN UNDERSTORY OF WILLOW. I LOOKED DOWN FOR A SECOND + FROM THEM I COULD NOT RELOCATE THE WIFL -

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 2 STATION: 2

DATE: 5/7/10 OBSERVER: JML START TIME: 0917 END TIME: 0937 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD^{1,2} FAIR POOR CLOUD COVER (%) 0 1 0 TEMP (°F) 72.1 72.6

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N^{1,2} NE SE S SW W NW n/a SPEED (MPH) Low: 1.1 1.3 High: 9.1 8.4 Ave: 2.6 2.7

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None^{1,2} light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity ^{1,2,3}	Habitat	Raptor/ Non-Raptor	A [‡]	Breeding Status/Behavioral Notes
1			HOFI				PE : SO : FL CS : HU : OT		N		
2			WAVI				PE : SO : FL CS : HU : OT				
3			HOWR				PE : SO : FL CS : HU : OT				
4			OCWA				PE : SO : FL CS : HU : OT				
5			GTGR				PE : SO : FL CS : HU : OT				
6			LEGO				PE : SO : FL CS : HU : OT				
7			MODO				PE : SO : FL CS : HU : OT				
8			SOSP				PE : SO : FL CS : HU : OT				
9			OATI				PE : SO : FL CS : HU : OT				
10			BUSH				PE : SO : FL CS : HU : OT				
11			WBNU				PE : SO : FL CS : HU : OT				
12	0936	JMRSHAO1	RSHA	U	U	1	PE : SO : FL CS : HU : OT			Y	
13							PE : SO : FL CS : HU : OT				
14							PE : SO : FL CS : HU : OT				
15							PE : SO : FL CS : HU : OT				
16							PE : SO : FL CS : HU : OT				
17							PE : SO : FL CS : HU : OT				
18							PE : SO : FL CS : HU : OT				
19							PE : SO : FL CS : HU : OT				
20							PE : SO : FL CS : HU : OT				

[‡] check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 2 STATION: 4

DATE: 5/7/10 OBSERVER: JMC START TIME: 0952 END TIME: 1022 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 01 0 TEMP (°F) 73.2 72.6

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} N NE E SE S SW W NW n/a SPEED (MPH) Low: 1.3 15.4 High: 8.4 7.6 Ave: 2.3 6.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity ^{1,2,3}			Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
							PE	SO	FL				
1			RWBL				PE	SO	FL		N		
							CS	HU	OT				
2			HOWR				PE	SO	FL				
							CS	HU	OT				
3			WEEK				PE	SO	FL				
							CS	HU	OT				
4			MODO				PE	SO	FL				
							CS	HU	OT				
5			BUOW				PE	SO	FL				
							CS	HU	OT				
6			CLSW				PE	SO	FL				
							CS	HU	OT				
7			YWAR				PE	SO	FL				
							CS	HU	OT				
8			NOFL				PE	SO	FL				
							CS	HU	OT				
9			CACT				PE	SO	FL				
							CS	HU	OT				
10			SPTO				PE	SO	FL				
							CS	HU	OT				
11			BHOR				PE	SO	FL				
							CS	HU	OT				
12			BIPH				PE	SO	FL				
							CS	HU	OT				
13			COYE				PE	SO	FL			✓	
							CS	HU	OT				
14			EUST				PE	SO	FL				
							CS	HU	OT				
15			LEGO				PE	SO	FL				
							CS	HU	OT				
16			ATFL				PE	SO	FL			✓	
							CS	HU	OT				
17			WEST				PE	SO	FL		N	✓	
							CS	HU	OT				
18							PE	SO	FL				
							CS	HU	OT				
19							PE	SO	FL				
							CS	HU	OT				
20							PE	SO	FL				
							CS	HU	OT				

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

Comments per observation #: _____

DATE: 5/7/10 OBSERVER: JMC START TIME: 1030 END TIME: 1100 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} ~~GOOD~~ FAIR POOR CLOUD COVER (%) 0 1 0 TEMP (°F) 75.5 75.8

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} ~~N~~ E SE S SW W NW n/a SPEED (MPH) Low: 0.7 1.6 High: 4.1 6.9 Ave: 1.3 2.2

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} ~~None~~ light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			LEGO						N		
2			OSTI								
3			WAVI							✓	
4			ANHU								
5			LAZB								
6			HOLR								
7			WIWA								
8			HOFI								
9			WEBL								
10			NOFL								
11			SPTO								
12			SOSP								
13			ATFL								
14			MODO						N		
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

DATE: 5-17-10 OBSERVER: AFI START TIME: 0634 END TIME: 0704 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 100 / 100 TEMP (°F) 56.7 / 50.9

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 0 High: 1.2 / 1.8 Ave: 0 / 0.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ~~None~~ light rain rain light snow snow sleet hail other Foggy 1,2

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1	0634		BCSP	u	w	1	PE/calling	Open/rip	nr	✓	
2			WSJA			1				✓	
3			CALT			1				✓	
4			ISNGR			1				✓	
5			ANHU			1				✓	
6			LEGO			1				✓	
7	0636		ORAT			2				✓	
8			MUWO			1				✓	
9			CALT			1				✓	
10			LEGO			2				✓	
11			NOFL			1				✓	
12			HOWR			1				✓	
13	0639		LAZU	m	A	2					
14	0644		SPTO	u	u	1				✓	
15	0645		LEGO	u	u	2					
16	0645		CONA	u	u	1					
17	0646		MUWO	u	u	1				✓	
18	0648		ORAT	u	u	1					
19	0652		HOWR	u	u	1					
20	L		BSHF	u	u	2				✓	

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21	0655		SPTD	W	U	1	PE/CALG	Kip.	NR	✓	
22	↓		BEWR	W	U	1				✓	
23	↓		WSJA	W	U	2				✓	
24	0658		BHGR	W	U	1				✓	
25	0659		LEGO	W	U	1					
26	↓		HOFI	W	U	2					
27	↓		ORTZ	W	U	3					
28	0703		ABFL	W	U	1					
29											
30											
31											
32											
33											
34											
35											
36											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank Chaparral	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping			BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circle	BSS	Big Sagebrush Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Soaring	SSS	Upper Sonoran Subshrub Scrub	CB	Brown headed cowbird	GE	Golden eagle	SH	Swainson's hawk
	Hunting/ Foraging			BW	Burrowing owl	LG	Lawrence's goldfinch	TB	Tricolored blackbird
OT	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
		CLOW	Coast Live Oak Woodland	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
		SWS	Southern Willow Scrub	RP	California rufous-crowned sparrow	ME	Merlin	YB	Western yellow-billed cuckoo
		NNG	Nonnative Grassland	CW	Coastal cactus wren	NH	Northern harrier	YW	Yellow warbler
				CG	Coastal California gnatcatcher	PF	Peregrine falcon	YC	Yellow-breasted chat
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

DATE: 5/7/10 OBSERVER: AFI START TIME: 0731 END TIME: 0801 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 100 / 100 TEMP (°F) 55.6 / 55.5

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 0 High: 1.2 / 1.6 Ave: 0 / 1.8

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) NO light rain rain light snow snow sleet hail other Foggy / Overcast

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1	0731		NWWD	U	W	1	PE/SINGING	SW/Temp	NR	✓	
2			CACPA		W	1				✓	
3			SOSP		W	1				✓	
4		AFYWB1	YEWB	M	A	1					
5			RWTSB	M	A	3					
6			ACWB	U	W	3					
7			AMCO			1					
8			COYE			2					
9			CLSW			1					
10	0740		RWBB	F	W	3					
11			WENA	U	W	1					
12			BHGR	M	A	1					
13			SPTO	U	W	1					
14			MBCO			1				✓	
15			LAZB			1				✓	
16			ATFL			2				✓	
17		AFYWB2	YEWB	M	A	1					
18	7:42		BHGR	U	SA	1					
19			ACWB	U	A	3					
20			WSDA	U	A	1					

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21	0743	AFCB01	BHCB	M	A	1	PE/Calling	Rip/SWR			
22	0744		DATE	U	U	1					✓
23	0745		BHBR			2					✓
24			LEGO			3					
25			SOSP			4					
26			NUWO			1					✓
27	0749	AFYWD3	YENR	M	A	1					
28	0750		WSTA	U	U	3					
29			SPTD	U	U	2					
30	0759	RTNA01	RTNA	U	A	1	Flying		R		Near Neap Loc. on map.
31											
32											
33											
34											
35											
36											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank Chaparral	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping			BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circle Soaring	BSS	Big Sagebrush Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Hunting/ Foraging	SSS	Upper Sonoran Subshrub Scrub	CB	Brown headed cowbird	GE	Golden eagle	SH	Swainson's hawk
OT	Other	SOCH	Scrub Oak Chaparral	BW	Burrowing owl	LG	Lawrence's goldfinch	TB	Tricolored blackbird
		CLOW	Coast Live Oak Woodland	CC	California condor	BV	Least Bell's vireo	VF	Vermilion flycatcher
				LA	California horned lark	LH	Loggerhead shrike	WK	White-tailed kite
		SWS	Southern Willow Scrub	RP	California rufous-crowned sparrow	LO	Long-eared owl	YB	Western yellow-billed cuckoo
		NNG	Nonnative Grassland	CW	Coastal cactus wren	ME	Merlin	YW	Yellow warbler
				CG	Coastal California gnatcatcher	NH	Northern harrier	YC	Yellow-breasted chat
						PF	Peregrine falcon		
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

DATE: 5-17-10 OBSERVER: AFI START TIME: 0845 END TIME: 0915 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 100/100 TEMP (°F) 61.8/59.1

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW NE SPEED (MPH) Low: 0.1 High: 1.9/9.3 Ave: 0.7/3.7

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other Overcast

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0845		Howr	u	u	2	PE/SI	SWS	NR	✓	
2	0845		ORTI	u	u	2					
3	0848		SPTO	u	u	2					
4	0849		Howr	u	u	5					
5			LELO	u	u	2					
6			MUHO	u	u	2					
7	0851		SPTO			3					
8	0853		BUSH			2					
9			HSTA			2					
10			WBNU			2					
11			BHGR			2				✓	
12	0858		COLT			1					
13	0900		Howr			1					
14	0900	AFJ	HEA	u	u	1				✓	
15			BLPH	u	u	1	FL				
16			ATPL	u	A	2	SI				
17	0908		GHow	u	A	1	HR		NR		on map
18			LAER	M	A	1	SI	Oaks	NR		
19			ORTI	u	u	2		Oaks		✓	
20			Howr	u	u	5		Oaks			

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: Overall very quiet w/ low bird activity

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21	0914		LELO	W	W	5	PE	SWS	NR		
22			REHA	W	A	1	FL		R		CHN WAP
23			WESTR	W	W	2	PE		NR	✓	
24			HOFI	W	W	5	PE		NR	✓	
25			WBMR	W	A	1	FL		NR		
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circling	BSS	Big Sagebrush Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Hunting/ Foraging	SSS	Upper Sonoran Subshrub Scrub	CB	Brown headed cowbird	GE	Golden eagle	SH	Swainson's hawk
OT	Other	SOCH	Scrub Oak Chaparral	BW	Burrowing owl	LG	Lawrence's goldfinch	TB	Tricolored blackbird
		CLOW	Coast Live Oak Woodland	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
		SWS	Southern Willow Scrub	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
		NNG	Nonnative Grassland	RP	California rufous-crowned sparrow	ME	Merlin	YB	Western yellow-billed cuckoo
				CW	Coastal cactus wren	NH	Northern harrier	YW	Yellow warbler
				CG	Coastal California gnatcatcher	PF	Peregrine falcon	YC	Yellow-breasted chat
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 3 STATION: 3

DATE: 5-17-10 OBSERVER: AFI START TIME: 0946 END TIME: 1016 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 100/100 TEMP (°F) 60.2, 67.0

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 High: 3.3, 2.5 Ave: 1.2, 1.3

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other overcast & cold

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0946		BHSH	u	u	1	PE/SI	Orch	NR	✓	
2			HOPI	u	u	2				✓	
3			SPTO	u	u	3				✓	
4			ATFL	u	u	1				✓	
5			LEGO	u	u	2					
6	0953		Howr	u	u	2		SWS		✓	
7	0959		ORTJ	u	u	2				✓	
8	1002		CORA	u	u	1					
9	1004		LAEB	u	u	3				✓	
10	1005		Howr	u	u	2				✓	
11	1006		CORR	u	u	1				✓	
12	1009		WRVE	u	u	1					
13	1010		LEGO	u	u	2					
14	1010		ANTR	u	u	2					
15	1012		ATFL	u	A	1					
16	1015		ACHA	u	u	1				✓	
17	1015		NOFL	u	u	1				✓	
18			SPTO	u	A	2					
19			BUSH	u	u	4					
20			SOSP	u	u	1					

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: Very few birds - low activity

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A*	Breeding Status/Behavioral Notes
21	1015		WETA	W	A	1	PE	SWS	NR		
22	L		SOSP	W	A	1	PE/SO	L	+	✓	
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

[†] Special Status species and all raptors

Activity Codes

PE Perched
 SO Soaring
 FL Flapping
 CS Circle
 Soaring
 HU Hunting/
 Foraging
 OT Other

Habitats

CCH Chamise Chaparral
 RSC Red Shank
 Chaparral
 BSS Big Sagebrush
 Scrub
 SSS Upper Sonoran
 Subshrub Scrub
 SOCH Scrub Oak Chaparral
 CLOW Coast Live Oak
 Woodland
 SWS Southern Willow
 Scrub
 NNG Nonnative Grassland

Sensitive Species Codes

BE Bald eagle	CO Cooper's hawk	SA Sharp-shinned hawk
BL Bank swallow	FH Ferruginous hawk	SW Short-eared owl
BS Belding's Savannah sparrow	GS Grasshopper sparrow	WF Southwestern willow flycatcher
SG Bell's sage sparrow	GV Gray vireo	SU Summer tanager
CB Brown headed cowbird	GE Golden eagle	SH Swainson's hawk
BW Burrowing owl	LG Lawrence's goldfinch	TB Tricolored blackbird
CC California condor	BV Least Bell's vireo	VF Vermilion flycatcher
LA California horned lark	LH Loggerhead shrike	WK White-tailed kite
RP California rufous- crowned sparrow	LO Long-eared owl	YB Western yellow-billed cuckoo
CW Coastal cactus wren	ME Merlin	YW Yellow warbler
CG Coastal California gnatcatcher	NH Northern harrier	YC Yellow-breasted chat
	PF Peregrine falcon	
	FA Prairie falcon	
	PU Purple martin	

Comments per observation #: _____

LBY & SWFL Surveys

LBY #4
SWFL #1

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: _____

DATE: 5-27-10 OBSERVER: ERI/AFI START TIME: 0520 END TIME: 11:00 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 30% / 5% TEMP (°F) 44.6 / 62

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 14 High: 1 / 12.2 Ave: 0 / 6.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			BUSH								
2			YEWA	m	A	2					Already GPS'd.
3			RWBB								
4			SPTD								
5			HOWR								
6			SOSP								
7			MOOD								
8			BHGR								
9			AMCO								
10			WBNU								
11			NOFL								
12			RTPL								
13			HOFT								
14			CAQU								
15			LEGO								
16			WEKI								
17			CALT								
18			ANKU								
19			CONA								
20			LISP								

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21			BLPH								
22			BHOR								
23		AFYWO1	YENA	M	A	1					
24			WNPE	U	A	10					
25		APCBO1	BKAB	M	A	1					
26			WIWA	F	A	1					
27			GATI								
28			ACWO								
29			WJTB								
30		AFYWO2	YENA	M	A	1					
31			WEBB	M/F	A	2					
32			LAGF	M/F	A/SA	12					Small pulses/family groups pushing through shr.
33			LREB								
34		AEYWO4	YENA	M	A	1					
35			SWTA			1					
36			PSFL								

^a check if Auditory only

BCSP

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

NO LBV / SWFL

Activity Codes

PE Perched
 SO Soaring
 FL Flapping
 CS Circle
 Soaring
 HU Hunting/
 Foraging
 OT Other

Habitats

CCH Chamise Chaparral
 RSC Red Shank
 Chaparral
 BSS Big Sagebrush
 Scrub
 SSS Upper Sonoran
 Subshrub Scrub
 SOCH Scrub Oak Chaparral
 CLOW Coast Live Oak
 Woodland
 SWS Southern Willow
 Scrub
 NNG Nonnative Grassland

Sensitive Species Codes

BE Bald eagle	CO Cooper's hawk	SA Sharp-shinned hawk
BL Bank swallow	FH Ferruginous hawk	SW Short-eared owl
BS Belding's Savannah sparrow	GS Grasshopper sparrow	WF Southwestern willow flycatcher
SG Bell's sage sparrow	GV Gray vireo	SU Summer tanager
CB Brown headed cowbird	GE Golden eagle	SH Swainson's hawk
BW Burrowing owl	LG Lawrence's goldfinch	TB Tricolored blackbird
CC California condor	BV Least Bell's vireo	VF Vermilion flycatcher
LA California horned lark	LH Loggerhead shrike	WK White-tailed kite
RP California rufous-crowned sparrow	LO Long-eared owl	YB Western yellow-billed cuckoo
CW Coastal cactus wren	ME Merlin	YW Yellow warbler
CG Coastal California gnatcatcher	NH Northern harrier	YC Yellow-breasted chat
	PF Peregrine falcon	
	FA Prairie falcon	
	PU Purple martin	

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: 3

DATE: 6/10/10 OBSERVER: EPL, JMC START TIME: 0704 END TIME: 0855 GPSSm14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 58.4 67.3

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 1.9 1.0 High: 9.6 14.8 Ave: 2.7 2.5

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			LEGO								
2			ATFL								
3			SPTD								
4			RISP								
5			HOWR								
6			NUWO								
7			YWAR								
8			SOSP								
9			OATI								
10			LAGO								
11			NOFL								
12			CORA								
13		JMCB03	BHCO (B)	U	U	2	FL	SWS	N		
14			BUOR								
15	0843	JMCB03	BHCO (B)	U	U	1	FL	SWS	N	✓	
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # STATION: 6

DATE: 6/10/10 OBSERVER: ERI, JMC START TIME: 1042 END TIME: 1102 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 72.3 74.8

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S ^{1,2} SW W NW n/a SPEED (MPH) Low: 5.7 1.2 High: 6.4 7.3 Ave: 7.8 3.8

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1			LEGO								
2			HOWR								
3			ATFL								
4			SPTO								
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

WIFL/LBV

LBV Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT

Survey # _____ STATION: 4

DATE: 6/16/10 OBSERVER: CRJ, JMC START TIME: 0504 END TIME: 0645 GPS: M14 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ²GOOD ¹FAIR POOR CLOUD COVER (%) ²0% ¹10% TEMP (°F) 56.8/63.1

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S ²SW W ¹W n/a SPEED (MPH) Low: 0.2/0 High: 3.9/3.7 Ave: 1.0/1.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2}None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [‡]	Breeding Status/Behavioral Notes
1			BHOR								
2			YWAR			111					
3			WEWP								
4			RWBL								
5			ACWO								
6			SOSP								
7			COYE								
8			MODD								
9			BUOW								
10			BUSH								
11			WEBL								
12			BEWR								
13			ATFL								
14			NUWO								
15			HOWR								
16			SPTD								
17			RTHA							✓	
18			CORA								
19			LEGO								
20			CLSW								

[‡] check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

[†] Special Status species and all raptors

Comments per observation #: _____

LBN Survey #5 | WIFL #2
94

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: _____

DATE: 6/10/10 OBSERVER: EZ1, JMC START TIME: 1016 END TIME: 1029 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ~~GOOD~~ FAIR POOR CLOUD COVER (%) 0% / 0% TEMP (°F) 70.9, 70.9

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ~~W~~ NW n/a SPEED (MPH) Low: 1.9, 1.9 High: 5.7, 5.9 Ave: 3.5, 3.5

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			ALWD								
2			YWAR								
3			SSP								
4			COZA								
5			BEWR								
6			LAGO								
7			HOWR								
8			BCSP								
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: 2

DATE: 6/10/10 OBSERVER: ERI, JMC START TIME: 0922 END TIME: 1004 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 78.9 78.4

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ~~W~~ NW n/a SPEED (MPH) Low: 1.5126 High: 798.0 Ave: 2.413.1

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1			WENU								
2			OPFL								
3			WEST								
4			SOSP								
5			MODO								
6			YWAR								
7			LEGO								
8			BCSP								
9			SPTO								
10			CLSW								
11			NOFL								
12			CORA								
13											
14											
15											
16											
17											
18											
19											
20											

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

LBV #3/SWFL #3
16
↓

LBV/SWFL

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 16 STATION: 6

DATE: 6/21/10 OBSERVER: ELVA START TIME: 1035 END TIME: _____ GPS — PAGE — OF —

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 78/80

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 212 High: 515 Ave: 324.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			HOWF								
2			OATI								
3		LAGO	HOWF	M	F A	5	Perched	WRF	-	-	Perched & calling
4			ATFL								
5			WSJA								
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: LAGO ADDED to map by hand

LBV/SWFL

LBV#8/SWFL#3

BIRD-AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey #

61

STATION: 4A

DATE: 6/21/10 OBSERVER: Erik Lauste START TIME: 700 END TIME: 715 GPS - PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 51/51

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N ^{1/2} NE E SE S SW W NW n/a SPEED (MPH) Low: 0/0 High: 2/2 Ave: 1/1

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			SO P								
2			AMCR								
3			HOWR								
4			ATFL								
5			IN DO								
6			ROWR								
7			BHGR								
8			AMHV								
9			LEGY								
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

LBV/SWFL

LBV #8/SWFL #3
6

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 6 STATION: 4

DATE: 6/21/10 OBSERVER: ELA START TIME: 830 END TIME: 1020 GPS - PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 010 TEMP (°F) 69, 75

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N ^{W²} NE E SE S SW W NW n/a SPEED (MPH) Low: 214 High: 416 Ave: 244.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) (0) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			WWPE								
2			HOWR								
3			WSJA								
4			LEGO								
5			RTHA								
6			SOSP								
7	0840	- 1	YEWA	?	?	1	Perch	WRF	-		
8			ATFL								
9			RWBBL								
10			NRUS								
11			ANHU								
12			BLPA								
13			NUWO								
14			ACWO								
15			SPTO								
16			AMCO								
17			COYE								
18			BHGR								
19			WEKI								
20	1000	- 2	YEWA	?	?	1	Perch	WRF	-		

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: No GPS - YEWA put on map by hand

LBV/SWFL

LBV#8/SWFL#3

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey #

STATION: 3

DATE: 6/21/10 OBSERVER: ELA START TIME: 515 END TIME: 645 GPS PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 01 TEMP (°F) 48/46

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW WSW WNW WSW SPEED (MPH) Low: 0/1 High: 2/2 Ave: 1/1

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1		SPTO									
2		LE60									
3		AMCR									
4		ATFL									
5		WSJA									
6		WUWO HOWR									
7		OATI									
8		COHA									
9		ACWO									
10		BCSP									
11		SOSP									
12		WUWO									
13		MOQU									
14		CORA									
15		ANHU									
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBV/SWFL

LBV#5/SWFL#3

BIRD-AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 16 STATION: 2

DATE: 6/21/10 OBSERVER: Erik Lagosta START TIME: 730 END TIME: 800 GPS --- PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 58/64

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0/2 High: 0/4 Ave: 0/3.2

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) (None) light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			ATEL								
2			OATI								
3			SO SP								
4	0740		YEWA	?	?	1	PE	WRS	-	-	Percher, Singing
5			MOJO								
6			WSCJ								
7			CORA								
8			Lego								
9			CATH								
10			STJA								
11			WEBL								
12			AMWA								
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: DOGS!

LB1#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: BAS6

DATE: 6 July 2010 OBSERVER: Danny Willard
Jimmy McManis START TIME: 0517 END TIME: 0532 GPSSM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 10 TEMP (°F) 48 48

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0.80 High: 3.2 3.1 Ave: 1.4 1.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			<u>ATPL</u>								
2			<u>SPTO</u>								
3			<u>SOSP</u>								
4			<u>CORA</u>								
5			<u>WESS</u>								
6			<u>BLOR</u>								
7			<u>HCF1</u>								
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBV#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: 4
 DATE: 7/6/10 OBSERVER: Dave J. Bellid START TIME: 0703 END TIME: 0720 GPS SM14 PAGE 1 OF 1
 WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 1 TEMP (°F) 43 53
 WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W W 1 2 SPEED (MPH) Low: 0 / 0 High: 12 1.9 Ave: 3
 PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			MOIO								
2			WOBP	♂		1					
3			BHGR YBOA	♂ ad		3					
4			WRNH								
5			BRBL CAOH?								
6			CAHA AMCR								
7			ATPL WEST				War at least 1 song				
8			NWOO SPTO								
9			WREN LABY?								
10			LEGO LACD								
11		JMCB7-701	BUSH BHCO								
12			WEST WEEK								
13		JMCOHA 10701	COHA		ad.	1	Flying over	Rapman			
14			LABU GATO								
15			HOWR COYE								
16			SOSP HUVI								
17			BEWR								
18		JMCB7-702	BHCO			1					
19			BATI REHA			3					Pair calling (south of southern boundary of savanna area)
20			ACTOO BLPH								

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

ASU:

MALL:

MOIO:

⊙ = Singing

Comments per observation #:

LBV#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: #3

DATE: 7/6/10 OBSERVER: Doug Wetzel / Audrey McKeon START TIME: 0730 END TIME: 0837 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 64/80

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW ² ¹ na SPEED (MPH) Low: 0/0.9 High: 14/3.7 Ave 06/1.3

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			NULW HUVI								
2			LEGO ATFI								
3			SPTO								ad. + juvs
4		JWCOHA 7-702	COHA								ad. + 2+ juvs perched near (kids calling)
5			WBNW OATI								
6			HZOR ATVA								
7			SPTO SPTO								juv.
8			BEAR								Ⓢ
9			CORA WOST								(just called)
10			NULW BAGR								
11			LAGO								
12			CATT CACY								
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fiedgling

¹ Special Status species and all raptors

Comments per observation #: _____

LBN#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: #2

DATE: 7/6/10 OBSERVER: Jimmy McHerron
Dorey Cillek START TIME: 0900 END TIME: 0942 GPS SM 121 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 75/75

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0.7/1 High: 57/55 Ave: 27/2.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			WOWP LAGO:								
2			WEST:								
3			WOWP ALAI								
4			HOR								
5			SES P BTRG:								(Family)
6			LAGO NUWO								
7			MSD								
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

LAVANOR Dancer?

SARA in vic.

Comments per observation #: _____

LBY # 7 WIFL # 4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: # 49

DATE: 7/6/10 OBSERVER: Jimmy McManis / Doug Godick START TIME: 0953 END TIME: 1003 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 18 TEMP (°F) 76 / 76

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW NE SPEED (MPH) Low: 0 High: 26 Ave: 11.3

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			OATI								
2			YFOA:								
3			SPID 365A								
4			BUSH HOUR								
5			ABOR ATFL								
6			NYCOO								
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

SJFL/LBV

DATE: 7/16/10 OBSERVER: BMJ, ER: START TIME: 0941 END TIME: 1003 GPS 8 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0 10 TEMP (°F) 86.6 190.0

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ^{1,2} NW n/a SPEED (MPH) Low: 0.013 High: 2.613.1 Ave: 1.611.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0941		CORA						N	✓	
2			HOFI						/	✗	
3			ATFL								
4			WEST								
5		BMLL10	LAGO								
6			ORTI								
7			BNBR		FL					✗	Conf. breeding
8			BLSN							✗	
9			BUSH						✓		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

SJFL/LBU

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 5/8 STATION: 3

DATE: 7/16/10 OBSERVER: ZMU START TIME: 0759 END TIME: 0930 GPS 8 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 80.2/86.7

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW WNW n/a SPEED (MPH) Low: 0/0 High: 0/15 Ave: 0/11.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0759		NAND						N		strange location ID by voice + bill size + plume
2			ACWD						N	X	
3			RTHA	U	1/2	3			R		
4			DATI						N		
5			LEGO								
6			CORA							X	
7			SPTO							X	
8		BML609	LALGO								
9			PRAI								
10			LAZB								
11			ATFL								
12			HOWR								
13			NUWO						V	X	
14		BMC006	COLA	U	FL				R		
15			BNGR						N	X	
16			WESS								
17			HUYI								
18			CALT								
19			WBNU								
20			SOSP		FL						

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

SWFL / LBV

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 5/8 STATION: 4

DATE: 7/16/10 OBSERVER: BMS, ER START TIME: 0549 END TIME: 0745 GPS 8 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0 / 0 TEMP (°F) 68.4 / 78

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 10 High: 0 / 0 Ave: 0 / 10

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0549	RSNA	B/SNAW		A/FL	2+			R	Y	≥ 1 FL
2		RTNA			A				R		
3		WELP							N	X	
4		PLWR								Y	
5		ATFL								Y	
6		NUWO								Y	
7		WEST								Y	
8		BRBL								Y	
9		NDFL								Y	
10		MWBO								Y	
11		KWBL								X	
12		COYE								X	
13		LEBO								Y	
14		MALL									
15		BHGR									
16		PHAI									
17		WBNU									
18		CALT								X	
19		HOWR									
20		BLGR							Y	X	

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21			BEWR						N	X	
22			ACWD								
23			SPTD								
24	0643	BACB01	BHCO	M							flyby
25			HUVI								
26			ANHU							X	
27			WREN							X	
28			ELSW								
29		BML608	LAGO							X	
30			COHU							X	
31			OATI							X	
32			CORA								
33			CAJU							X	
34			CATW							X	
35			BLPH								
36			BRRD							X	

^a check if Auditory only
^{*} Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circle	BSS	Big Sagebrush Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Hunting/ Foraging	SSS	Upper Sonoran Subshrub Scrub	CB	Brown headed cowbird	GE	Golden eagle	SH	Swainson's hawk
OT	Other	SOCH	Scrub Oak Chaparral	BW	Burrowing owl	LG	Lawrence's goldfinch	TB	Tricolored blackbird
		CLOW	Coast Live Oak Woodland	CC	California condor	BV	Least Bell's vireo	VF	Vermilion flycatcher
		SWS	Southern Willow Scrub	LA	California horned lark	LH	Loggerhead shrike	WK	White-tailed kite
		NNG	Nonnative Grassland	RP	California rufous-crowned sparrow	LO	Long-eared owl	YB	Western yellow-billed cuckoo
				CW	Coastal cactus wren	ME	Merlin	YW	Yellow warbler
				CG	Coastal California gnatcatcher	NH	Northern harrier	YC	Yellow-breasted chat
						PF	Peregrine falcon		
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

SWFL/LBV

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # ^{SWFL LBVI} 58 STATION: 6

DATE: 7/16/10 OBSERVER: BMU/ERL START TIME: 0522 END TIME: 0538 GPS 8 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0, 0 TEMP (°F) 71.3, 71.5

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0/0 High: 0/0 Ave: 0/0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0522		SPTO						NX		
2			ATEL							X	
3			BEWR							X	
4			YWR							X	
5			CALT							X	
6			SOXP								
7			LEBJ								
8			HOPI								
9			CATE							X	
10			BUSH						↓		
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

August 30, 2010

Ms. Sandy Marquez
Recovery Permit Coordinator
Carlsbad Fish and Wildlife Office
6010 Hidden Valley Road, Suite 101
Carlsbad, California 92011

RE: 45-Day Summary Report of Protocol-Level Surveys for Southwestern Willow Flycatcher for the Campo Wind Energy Project

Dear Ms. Marquez:

In compliance with the Special Terms and Conditions for Endangered and Threatened Wildlife Species Permit TE-820658-4, AECOM submits this letter report summarizing the results of protocol surveys conducted during 2010 for the federally listed endangered southwestern willow flycatcher (*Empidonax traillii extimus*; SWFL) associated with the Campo Wind Energy Project. AECOM currently holds an Endangered and Threatened Species Permit issued by the U.S. Fish and Wildlife Service (USFWS) under Section 10(a) of the federal Endangered Species Act. This permit authorizes AECOM to conduct presence/absence surveys for SWFL.

Project Description

The Campo Band of Mission Indians (a California federally recognized Indian tribe), Muht-Hei, Inc. (a tribally chartered corporation wholly owned by the Campo Band of Mission Indians), the Bureau of Indian Affairs, and Invenergy Wind California, LLC propose construction and operation of a wind energy-generation facility on the Campo Indian Reservation in southeastern San Diego County. This facility would be capable of generating up to 300 megawatts (MW) of electricity and would include wind turbines, substations, transmission facilities, operations and maintenance building, and access roads. The project is currently being designed, but generally, strings of 2.5-MW turbines are being considered for installation across ridgelines throughout the reservation that do not contain residences, including areas north and south of both Interstate 8 (I-8) and State Route 94. Each turbine would be set on a large concrete foundation. Turbines would be connected by underground electrical cables to one or two substations. Each substation would be sited on approximately 2 to 3 acres and would consist of a graveled, fenced area containing transformers and switching equipment and an area to park utility vehicles. In addition, a three-phase overhead transmission circuit line would be constructed from each substation to connect the project to the existing transmission network. A temporary concrete batch plant would likely be necessary during construction. The biological survey area (BSA) identified for the proposed project includes approximately 4,417 acres. This acreage encompasses the area within which all proposed project components would be located, with a 500-foot buffer around new proposed components (i.e., turbines, substations, and transmission facilities) and a 100-foot buffer around existing features (i.e., existing roads) that are proposed to be used or modified.

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Site Description

The Campo Indian Reservation includes lands both north and south of I-8 along the Tecate Divide, extending from the Manzanita Indian Reservation to the north and south to 0.25 mile north of the California and Mexico international border (Figure 1). The reservation is located between the communities of Old Campo and Jacumba, around the community of Live Oak Springs, and bisected by Church Road (Figure 2). On-site elevation ranges from approximately 3,030 to 4,320 feet above mean sea level.

The BSA supports a variety of habitat types and vegetation communities but is dominated by chamise chaparral, with both a monotypic phase and a mixed chaparral phase. Additional vegetation communities found throughout the site and especially along ridges and slopes include redshank chaparral, big sagebrush scrub, and Sonoran subshrub scrub. A series of north-south-running ridges is located throughout the proposed project site separated by shallow valleys consisting of coast live oak woodland, nonnative grassland, and southern willow scrub vegetation. Buckwheat scrub is interspersed throughout the chamise chaparral, primarily in shallow valleys, along washes and roads, and along firebreaks. Various large rock outcrops are scattered throughout the site but are primarily located along the ridgelines.

Background Information

The SWFL, a subspecies of willow flycatcher (*Empidonax traillii*), was listed by the California Department of Fish and Game (CDFG) as endangered in California in 1991 (CDFG 1991) as part of the state-endangered listing of the full species (willow flycatcher). The SWFL was also federally listed as endangered in 1995 (USFWS 1995). This subspecies can only be separated from other willow flycatcher subspecies in the field geographically by breeding range. The SWFL breeds in New Mexico, Arizona, Southern California, Nevada, Utah, and possibly west Texas (Rourke et al. 1999). According to Unitt (2004), fewer than 90 pairs breed in San Diego County. In 2005, USFWS issued the final ruling to designate critical habitat for the SWFL, which includes portions of San Diego County (USFWS 2005). No critical habitat occurs within the BSA.

The primary factor responsible for the decline of the SWFL is habitat loss, exacerbated by nest predation and brood parasitism by brown-headed cowbirds (*Molothrus ater*, BHCO) (Rourke et al. 1999). The SWFL is a neotropical migrant that breeds in riparian forests with a distinct vegetation structure: a dense understory where nests are built, a moderately closed canopy, and an open foraging area at midstory. SWFL breeding habitat is also characterized by actively changing hydrology, frequently including standing water, but also dry areas that have flooded within the past few years and retain the appropriate vegetation structure. In California, less than 5% of appropriate riparian habitat remains from its extent when California achieved statehood in 1850 (Kus 2003).

SWFLs begin arriving on breeding territories in San Diego County in early May, but the northern subspecies (*E. t. brewsteri*) may migrate through southern breeding areas through mid-June. Both male and female migrant willow flycatchers frequently sing, and determining

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whether an individual is a resident (SWFL) or a migrant (willow flycatcher) cannot be accomplished from a single detection. Therefore, a survey protocol for SWFL has been adopted by USFWS (Sogge et al. 2010).

Survey Methodology

Prior to initiation of surveys, AECOM biologists reviewed the California Natural Diversity Database (CDFG 2010), the eBird database (eBird 2010), and the San Diego County Bird Atlas (Unitt 2004) to determine the closest known occurrences of SWFL in the vicinity of the BSA. The largest colony of SWFL in San Diego County breeds along the upper San Luis Rey River in the Cleveland National Forest (approximately 45 miles northwest of the BSA), which had between 45 and 50 territorial males between 1993 and 2001 (Unitt 2004). The nearest possible breeding colony from the BSA consists of two territorial males documented in 2001 at the upper end of El Capitan Reservoir, approximately 27 miles from the BSA (Unitt 2004).

A habitat assessment focusing on suitable SWFL habitats within and adjacent to the BSA was completed by qualified AECOM biologists James McMorran and Erin Riley on April 17 and April 22, 2010. Contiguous riparian areas either within the BSA or within the immediate vicinity of the BSA were assessed, mapped, and digitized. Areas mapped as suitable SWFL habitat included all riparian willow forest and riparian willow scrub associations, and upland and wetland habitats adjacent to areas of scrub. Riparian areas adjacent to the BSA with optimal SWFL habitat were considered when they were contiguous with suitable habitat in the BSA because of the nature of the forthcoming risk assessment for the proposed wind farm project. This approach ensures maximum potential for detectability of SWFLs migrating through or breeding in the vicinity of the project but outside of the footprint. Four areas within or adjacent to the BSA were found to have habitat suitable to support SWFL; an overview of these areas is depicted in Figure 3. Three of the four SWFL Survey Areas are located in the southern half of the BSA (SWFL Survey Areas 2, 3, and 4), and the remaining Survey Area (SWFL Survey Area 6) is located in the northern half (Figure 3). The SWFL Survey Area numbering system (2, 3, 4, and 6) is consistent with an ongoing Bird Area Search study. Approximately 6.24 acres of suitable SWFL habitat occur within the BSA, and approximately 21.11 acres occur outside of the BSA (contiguous with SWFL habitat within the BSA), providing a combined total of approximately 27.35 acres of surveyed suitable SWFL habitat (Figures 4a, 4b, 4c, and 4d).

AECOM biologists Erin Riley (permitted), Brennan Mulrooney (under supervision at the time of project surveys; now independently permitted), Andrew Fisher (under supervision), and James McMorran (under supervision) conducted surveys under Endangered Species Permit TE-820658-4. AECOM biologists Doug Willick (permitted) and Erik LaCoste (permitted) conducted surveys under Endangered Species Permits TE-821404-5 and TE-027736-4, respectively. The protocol surveys followed the current USFWS survey protocol (Sogge et al. 2010). Each SWFL Survey Area was surveyed once during the first survey period (May 15 through 31), twice during the second survey period (June 1 through 24), and twice during the third survey period (June 25 through July 17). Surveys in each SWFL Survey Area were

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conducted at least 5 days apart between dawn and 11 a.m. Biologists walked through suitable habitat, stopping frequently to listen. After a few minutes of passive listening, if no SWFLs were heard, a playback tape of SWFL calls was played (active surveys) to elicit a response from SWFLs in the vicinity. Incidental SWFL detections during other field surveys were also recorded and mapped.

As allowed under the relevant endangered species permits, the survey activity “takes” the SWFL through harassment with playback of taped SWFL vocalizations. No individual SWFLs were captured.

Results

Protocol-level SWFL surveys occurred between May 27 and July 16, 2010, within the BSA and adjacent areas of suitable SWFL habitat (Table 1). A summary of survey data is presented in Table 1, including date of survey, survey number, time, weather conditions, field biologists, and SWFL observations. Field notes are presented in Appendix A.

Table 1
Southwestern Willow Flycatcher Protocol Surveys
Dates, Personnel, Weather Conditions, and Results

Date	Survey Period	Surveyors	Time	Weather Conditions	SWFL Observed
05/27/10	1	Andrew Fisher Erin Riley	0520–1106	Start: 44°F, wind 0–1 mph, 30% cover End: 62°F, wind 2–6 mph, 5% cover	None
06/10/10	2	James McMorran Erin Riley	0504–1102	Start: 56°F, wind 0–4 mph, 0% cover End: 74°F, wind 5–16 mph, 0% cover	None
06/21/10	3	Erik LaCoste	0515–1035	Start: 48°F, wind 0–2 mph, 0% cover End: 80°F, wind 2–5 mph, 0% cover	None
07/06/10	4	James McMorran Doug Willick	0517–1003	Start: 48°F, wind 0–3 mph, 0% cover End: 76°F, wind 0–2 mph, 0% cover	None
07/16/10	5	Brennan Mulrooney Erin Riley	0522–1003	Start: 71°F, wind 0 mph, 0% cover End: 90°F, wind 0–3 mph, 0% cover	None

No SWFLs were detected within the BSA or adjacent areas during the survey period. However, an individual identified to “Traill’s” flycatcher (willow flycatcher [*Empidonax traillii*] or alder flycatcher [*E. alnorum*]) was detected foraging at SWFL Survey Area 3 on May 7, 2010 (Figure 4b). This individual was identified by James McMorran while conducting a least Bell’s vireo protocol survey. It did not vocalize and was not detected again during any protocol surveys on-site.

BHCOs were detected at two survey locations adjacent to the BSA (Figures 4b and 4c), with a maximum number of five individuals observed on one occasion in June. A summary of BHCOs detected on-site is provided in Table 2.

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August 30, 2010
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Table 2
Summary of Brown-Headed Cowbird Observations
by Survey Period

Survey Period	Survey Dates	Number of BHCO Individuals Detected
1	05/27/10	1
2	06/10/10	5
3	06/21/10	0
4	07/06/10	2
5	07/16/10	0

Discussion

Protocol-level surveys for SWFL did not yield any sign of this subspecies' presence within the BSA or adjacent areas. A nonvocal "Traill's" flycatcher (willow or alder flycatcher) was seen perching and foraging for approximately 1 minute at a distance of approximately 40 feet within the understory of the willows at SWFL Survey Area 3 on May 7, 2010, by James McMorran while conducting a least Bell's vireo protocol survey.


The Traill's flycatcher recorded on-site was observed at a time of year when willow flycatchers are migrating through San Diego County (early May). Willow flycatchers detected during May 15 through June 24 in Southern California cannot be confirmed as breeding on-site (Sogge et al. 2010). Individual willow flycatchers identified during this time period could be migrants of other subspecies (non-SWFL) and/or migrant SWFL subspecies that are not resident on-site. Only the SWFL subspecies breeds in San Diego County (Sogge et al. 2010). Thus, to confirm that the SWFL subspecies is breeding on-site, it must be detected on-site from June 25 through July 17, after which willow flycatchers should no longer be migrating through the region (Sogge et al. 2010). During this time of spring, any individuals detected are probably resident breeding or nonbreeding SWFLs. No willow flycatchers were observed on-site after May 7 for the remainder of any field project survey efforts thus far. It is therefore concluded that the Traill's flycatcher observed was using the area as stopover habitat during its spring migration.

As mentioned previously, historical accounts of territorial male suspected breeding or confirmed breeding locations were accessed through the San Diego County Bird Atlas (Unitt 2004), with the nearest known locations documented in 2001 at the upper end of El Capitan Reservoir, approximately 27 miles from the BSA. AECOM's protocol-level survey results in spring 2010, along with publicly available data, do not suggest a breeding population of this species in the immediate vicinity of the Campo Wind Energy Project.

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If you have any questions or comments regarding this report, please contact me at (619) 233-1454.

Sincerely,



James McMorran
Wildlife Biologist
james.mcmorran@aecom.com

Attachments: Figure 1 – Regional Map
 Figure 2 – Vicinity Map
 Figure 3 – Southwestern Willow Flycatcher Survey Area Overview
 Figure 4a – Southwestern Willow Flycatcher Survey Area 2 Results
 Figure 4b – Southwestern Willow Flycatcher Survey Area 3 Results
 Figure 4c – Southwestern Willow Flycatcher Survey Area 4 Results
 Figure 4d – Southwestern Willow Flycatcher Survey Area 6 Results
 Appendix A – Field Data Sheets

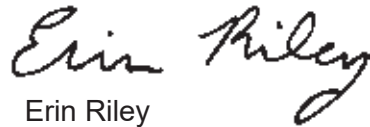
Ms. Sandy Marquez
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Certification

Qualified biologists who conducted SWFL surveys for the Campo Wind Energy Site certify that the information in this survey report fully and accurately represents the work performed by AECOM biologists. Signatures of current AECOM biologists as listed in Table 1 who conducted protocol-level surveys (May 27 through July 16, 2010) are included below. The results of protocol-level surveys for listed species are typically considered valid for 1 year by the resource agencies.



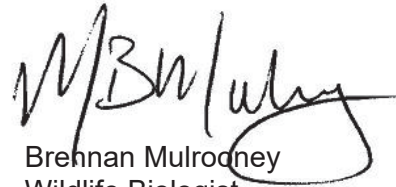
Andrew Fisher
Wildlife Biologist



Erin Riley
Wildlife Biologist



Doug Willick
Wildlife Biologist



Brennan Mulrodney
Wildlife Biologist



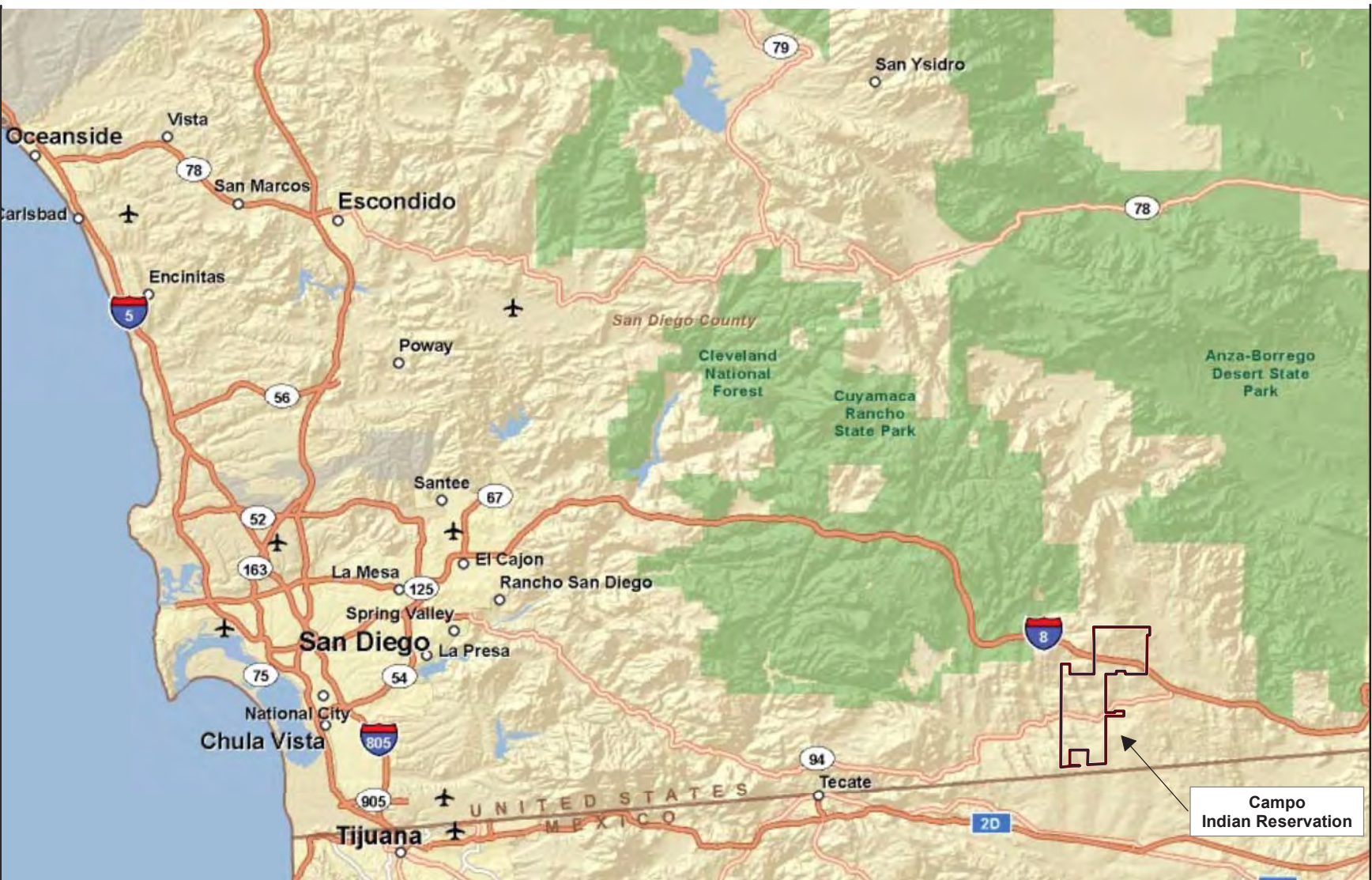
Erik LaCoste
Wildlife Biologist

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- U.S. Fish and Wildlife Service (USFWS). 2005. Designation of Critical Habitat for the Southwestern Willow Flycatcher (*Empidonax traillii extimus*); Final Rule. Federal Register 50 CFR Part 17.

FIGURES

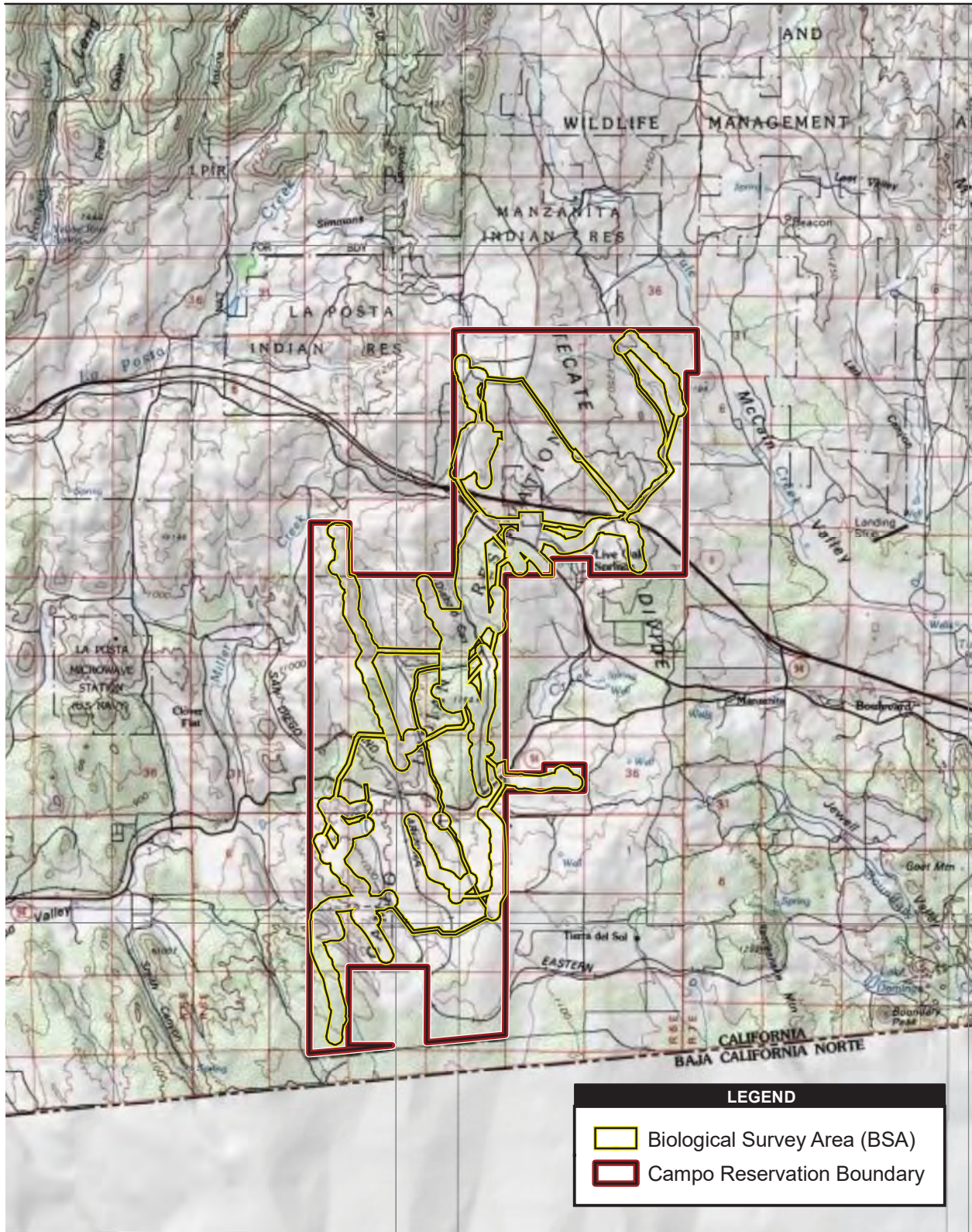


Source: ESRI 2009



Scale: 1 = 633,600; 1 inch = 10 mile(s)

Figure 1
Regional Map



Source: Tierra del Sol 1959; Live Oak Springs 1975; Campo 1959; Cameron Corners 1988

Figure 2
Vicinity Map



Figure 3
Southwestern Willow Flycatcher Survey Areas Overview



Source: DigitalGlobe 2008; Invernergy 2010; AECOM 2010

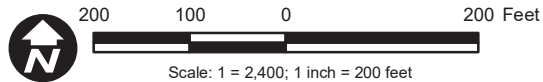
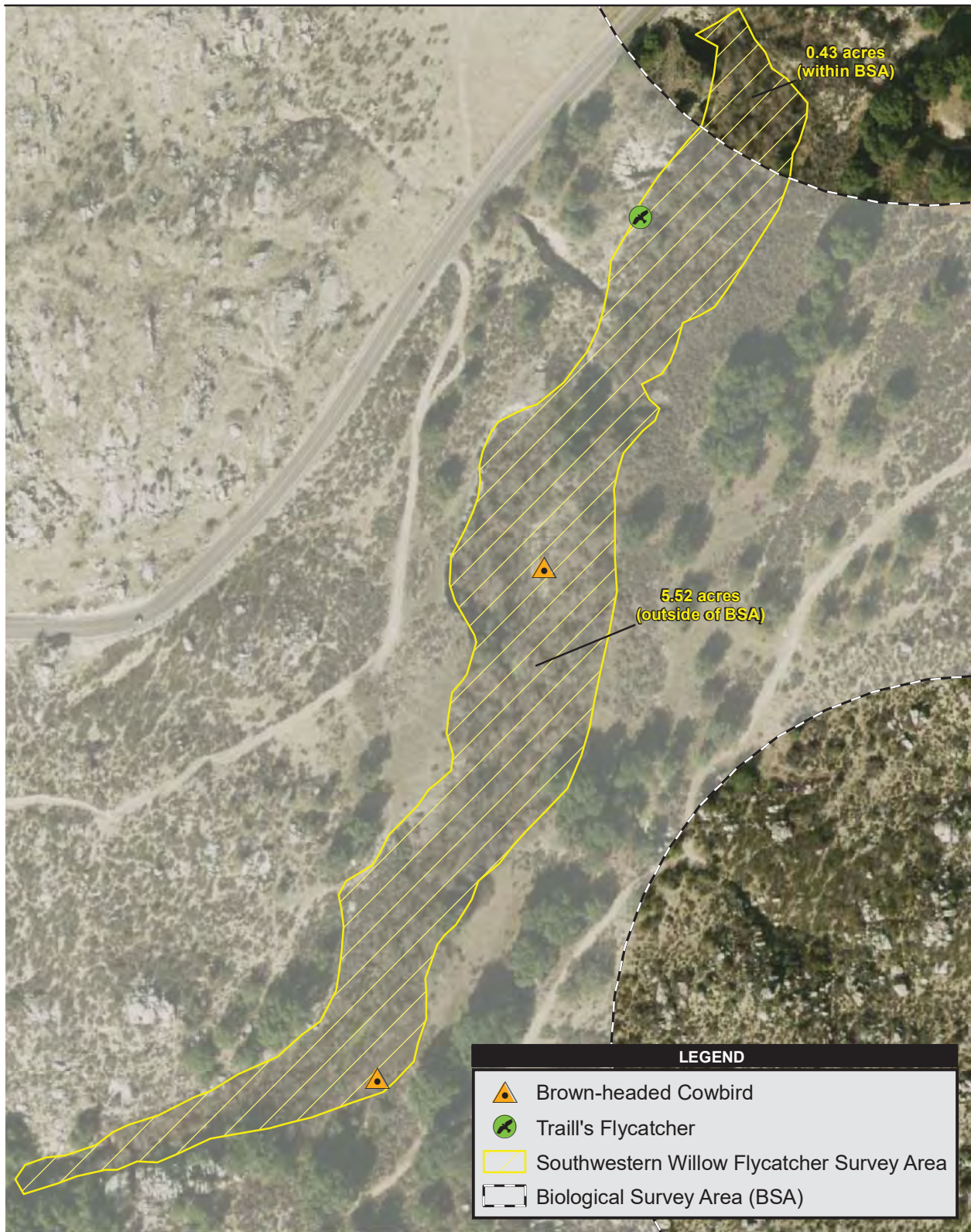
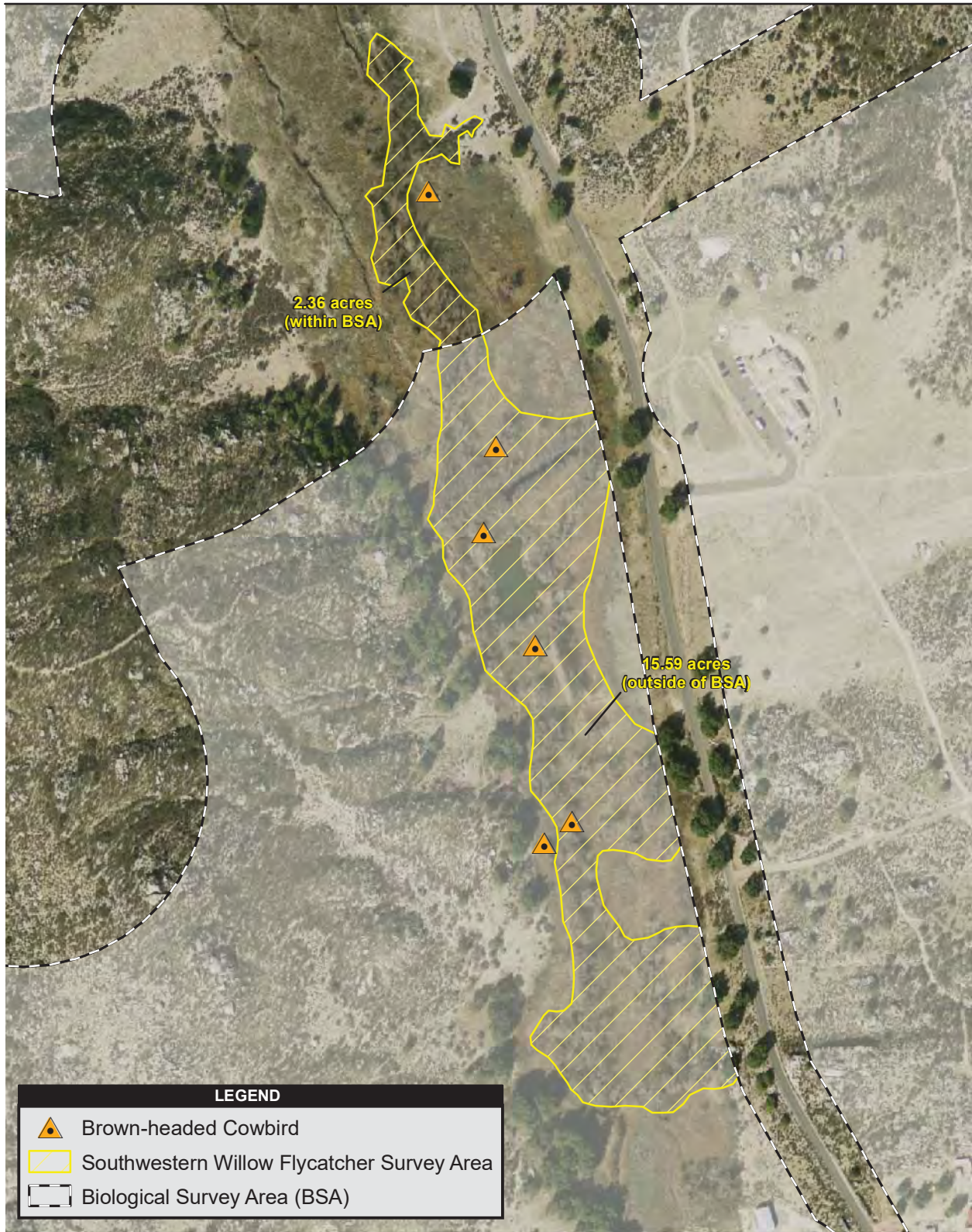


Figure 4a
Southwestern Willow Flycatcher
Survey Area 2 Results



Source: DigitalGlobe 2008; Inenergy 2010; AECOM 2010

Figure 4b
Southwestern Willow Flycatcher
Survey Area 3 Results



Source: DigitalGlobe 2008; Invenery 2010; AECOM 2010

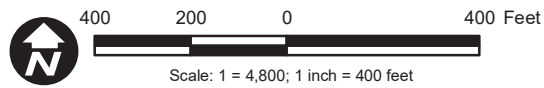


Figure 4c
Southwestern Willow Flycatcher
Survey Area 4 Results



Source: DigitalGlobe 2008; Invenery 2010; AECOM 2010

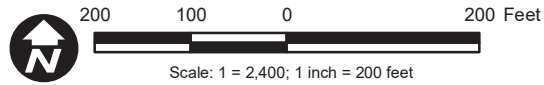


Figure 4d
Southwestern Willow Flycatcher
Survey Area 6 Results

APPENDIX A
FIELD DATA SHEETS

LBY & SWFL Surveys

LBY #4
SWFL #1

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: _____

DATE: 5-27-10 OBSERVER: ERI/AFI START TIME: 0520 END TIME: 11:00 GPS 4 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 30% / 5% TEMP (°F) 44.6 / 62

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 14 High: 1 / 12.2 Ave: 0 / 6.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			BUSH								
2			YEWA	m	A	2					Already GPS'd.
3			RWBB								
4			SPTD								
5			HOWR								
6			SOSP								
7			MOOD								
8			BHGR								
9			AMCO								
10			WBNU								
11			NOFL								
12			RTPL								
13			HOFT								
14			CAGE								
15			LEGO								
16			WEKI								
17			CALT								
18			ANKU								
19			CONA								
20			LISP								

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21			BLPH								
22			BKOR								
23		AFYWO1	YENA	M	A	1					
24			WNPE	U	A	10					
25		APCBO1	BKAB	M	A	1					
26			WIWA	F	A	1					
27			GATI								
28			ACWO								
29			WJTB								
30		AFYWO2	YENA	M	A	1					
31			WEBB	M/F	A	2					
32			LAGF	M/F	SA	12					Small pulses/family groups pushing through sh.
33			LRBB								
34		AEYWO4	YENA	M	A	1					
35			SWTA			1					
36			PSFL								

^a check if Auditory only

BCSP

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

NO LBV / SWFL

Activity Codes

PE Perched
 SO Soaring
 FL Flapping
 CS Circle
 Soaring
 HU Hunting/
 Foraging
 OT Other

Habitats

CCH Chamise Chaparral
 RSC Red Shank
 Chaparral
 BSS Big Sagebrush
 Scrub
 SSS Upper Sonoran
 Subshrub Scrub
 SOCH Scrub Oak Chaparral
 CLOW Coast Live Oak
 Woodland
 SWS Southern Willow
 Scrub
 NNG Nonnative Grassland

Sensitive Species Codes

BE Bald eagle	CO Cooper's hawk	SA Sharp-shinned hawk
BL Bank swallow	FH Ferruginous hawk	SW Short-eared owl
BS Belding's Savannah sparrow	GS Grasshopper sparrow	WF Southwestern willow flycatcher
SG Bell's sage sparrow	GV Gray vireo	SU Summer tanager
CB Brown headed cowbird	GE Golden eagle	SH Swainson's hawk
BW Burrowing owl	LG Lawrence's goldfinch	TB Tricolored blackbird
CC California condor	BV Least Bell's vireo	VF Vermilion flycatcher
LA California horned lark	LH Loggerhead shrike	WK White-tailed kite
RP California rufous- crowned sparrow	LO Long-eared owl	YB Western yellow-billed cuckoo
CW Coastal cactus wren	ME Merlin	YW Yellow warbler
CG Coastal California gnatcatcher	NH Northern harrier	YC Yellow-breasted chat
	PF Peregrine falcon	
	FA Prairie falcon	
	PU Purple martin	

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # STATION: 3

DATE: 6/10/10 OBSERVER: EPL, JMC START TIME: 0704 END TIME: 0855 GPSSm14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 58.4 67.3

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 1.9 High: 11.0 Ave: 2.7 2.5

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			LEGO								
2			ATFL								
3			SPTD								
4			RISP								
5			HOWR								
6			NUWO								
7			YWAR								
8			SOSP								
9			OATI								
10			LAGO								
11			NOFL								
12			CORA								
13		JMCB03	BHCO (B)	U	U	2	FL	SWS	N		
14			BuOR								
15	0843	JMCB03	BHCO (B)	U	U	1	FL	SWS	N	✓	
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: 6

DATE: 6/10/10 OBSERVER: EPI, JMC START TIME: 1042 END TIME: 1102 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) (1,2) GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 72.3 74.8

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S (1,2) SW W NW n/a SPEED (MPH) Low: 5.7 1.2 High: 6.4 7.3 Ave: 7.8 3.8

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1			LEGO								
2			HOWR								
3			ATFL								
4			SPTO								
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

WIFL/LBV

LBV Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey #

STATION: 4

DATE: 6/16/10 OBSERVER: CRJ, JMC START TIME: 0504 END TIME: 0645 GPS: M14 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ²GOOD ¹FAIR POOR CLOUD COVER (%) ²0% ¹10% TEMP (°F) 56.8/63.1

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S ²SW W ¹n/a SPEED (MPH) Low: 0.2/0 High: 3.9/3.7 Ave: 1.0/1.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2}None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [‡]	Breeding Status/Behavioral Notes
1			BHOR								
2			YWAR			111					
3			WEWP								
4			RWBL								
5			ACWO								
6			SOSP								
7			COYE								
8			MODD								
9			BUOW								
10			BUSH								
11			WEBL								
12			BEWR								
13			ATFL								
14			NUWO								
15			HOWR								
16			SPTD								
17			RTHA							✓	
18			CORA								
19			LEGO								
20			CLSW								

[‡] check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

[†] Special Status species and all raptors

Comments per observation #: _____

LBN Survey #5 | WIFL #2
94

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: _____

DATE: 6/10/10 OBSERVER: EZ1, JMC START TIME: 1016 END TIME: 1029 GPS: SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ~~GOOD~~ FAIR POOR CLOUD COVER (%) 0% / 0% TEMP (°F) 70.9, 70.9

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ~~W~~ NW n/a SPEED (MPH) Low: 1.9, 1.9 High: 5.7, 5.9 Ave: 3.5, 3.5

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			ALWD								
2			YWAR								
3			SSP								
4			COZA								
5			BEWR								
6			LAGO								
7			HOWR								
8			BCSP								
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBI Survey #5 | WIFL #2

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: 2

DATE: 6/10/10 OBSERVER: ERI, JMC START TIME: 0922 END TIME: 1004 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% 10% TEMP (°F) 78.9 78.4

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ~~W~~ NW n/a SPEED (MPH) Low: 1.5126 High: 798.0 Ave: 2.413.1

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A [†]	Breeding Status/Behavioral Notes
1			WENU								
2			OPFL								
3			WEST								
4			SOSP								
5			MODO								
6			YWAR								
7			LEGO								
8			BCSP								
9			SPTO								
10			CLSW								
11			NOFL								
12			CORA								
13											
14											
15											
16											
17											
18											
19											
20											

* check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

LBV #3/SWFL #3
16
↓

LBV/SWFL

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 16 STATION: 6

DATE: 6/21/10 OBSERVER: ELVA START TIME: 1035 END TIME: _____ GPS — PAGE — OF —

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 78/80

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 212 High: 515 Ave: 324.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			HOWF								
2			OATI								
3		LAGO	HOWF	M	F A	5	Perched	WRF	-	-	Perched & calling
4			ATFL								
5			WSJA								
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: LAGO ADDED to map by hand

LBV/SWFL

LBV#8/SWFL#3

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey #

61

STATION: 4A

DATE: 6/21/10 OBSERVER: Erik Lauste START TIME: 700 END TIME: 715 GPS - PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 51/51

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N ^{1/2} NE E SE S SW W NW n/a SPEED (MPH) Low: 010 High: 212 Ave: 111

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			SO P								
2			AMCR								
3			HAWR								
4			ATFL								
5			IN DO								
6			ROWR								
7			BHGR								
8			AMHV								
9			LEGY								
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

LBV/SWFL

LBV #8/SWFL #3
6

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 6 STATION: 4

DATE: 6/21/10 OBSERVER: ELA START TIME: 830 END TIME: 1020 GPS - PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 010 TEMP (°F) 69, 75

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N ^{W2} NE E SE S SW W NW n/a SPEED (MPH) Low: 214 High: 416 Ave: 244.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			WWPE								
2			HOWR								
3			WSJA								
4			LEGO								
5			RTHA								
6			SOSP								
7	040	- 1	YEWA	?	?	1	Perch	WRF	-		
8			ATFL								
9			RWBBL								
10			NRUS								
11			ANHU								
12			BLPA								
13			NUWO								
14			ACWO								
15			SPTO								
16			AMCO								
17			COYE								
18			BHGR								
19			WEKI								
20	1000	- 2	YEWA	?	?	1	Perch	WRF	-		

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: No GPS - YEWA put on map by hand

LBV/SWFL

LBV#8/SWFL#3

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey #

STATION: 3

DATE: 6/21/10 OBSERVER: ELA START TIME: 515 END TIME: 645 GPS PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 01 TEMP (°F) 48/46

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW WSW WNW WSW SPEED (MPH) Low: 0/1 High: 2/2 Ave: 1/1

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1		SPTO									
2		LE60									
3		AMCR									
4		ATFL									
5		WSJA									
6		WUWO HOWR									
7		OATI									
8		COHA									
9		ACWO									
10		BCSP									
11		SOSP									
12		WUWO									
13		MOQU									
14		CORA									
15		ANHU									
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBV/SWFL

LBV#5/SWFL#3

BIRD-AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 16 STATION: 2

DATE: 6/21/10 OBSERVER: Erik Lagarde START TIME: 730 END TIME: 800 GPS --- PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 58/64

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0/2 High: 0/4 Ave: 0/3.2

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) (None) light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			ATEL								
2			OATI								
3			SO SP								
4	0740		YEWA	?	?	1	PE	WRS	-	-	Percher, Singing
5			MOJO								
6			WSCJ								
7			CORA								
8			Lego								
9			CATH								
10			STJA								
11			WEBL								
12			AMWA								
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: DOGS!

LB1#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # _____ STATION: BAS6

DATE: 6 July 2010 OBSERVER: Danny Willard
Jimmy McManis START TIME: 0517 END TIME: 0532 GPSSM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 10 TEMP (°F) 48 48

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0.80 High: 3.2 3.1 Ave: 1.4 1.6

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			<u>ATPL</u>								
2			<u>SPTO</u>								
3			<u>SOSP</u>								
4			<u>CORA</u>								
5			<u>WESS</u>								
6			<u>BLOR</u>								
7			<u>HCF1</u>								
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
* Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

LBV#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: 4
 DATE: 7/6/10 OBSERVER: Dave J. Bellid START TIME: 0703 END TIME: 0720 GPS SM14 PAGE 1 OF 1
 WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) 1,2 GOOD FAIR POOR CLOUD COVER (%) 1 1 TEMP (°F) 43 53
 WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W 1,2 W 1 1 SPEED (MPH) Low: 0 / 0 High: 12 1.9 Ave: 3 1
 PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) 1,2 None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			MOIO								
2			WOBP	♂		1					
3			BHGR YBOA	♂ ad		3					
4			WRNH								
5			BRBL CASH?								
6			CASH AMCR								
7			ATPL WEST				War at least 1 song				
8			NWOO SPTO								
9			WREN CASH?								
10			LEGO LACD								
11		JMCB7-701	BUSH BHCO								
12			WEST WEEK								
13		JMCOHA 10701	CASH		ad.	1	Flying over	Rapman			
14			LASH GATO								
15			HOWR CONE								
16			SOSP HUVI								
17			BEWR								
18		JMCB7-702	BHCO			1					
19			BATI RSHA			3					Pair calling (south of southern boundary of savanna area)
20			ACTOO BLPH								

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

ASW:

MALL:

MOIO:

⊙ = Singing

Comments per observation #: _____

LBV#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: #3

DATE: 7/6/10 OBSERVER: Doug Wetzel / Audrey McKeon START TIME: 0730 END TIME: 0837 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 64/80

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW ² ¹ na SPEED (MPH) Low: 0/0.9 High: 14/3.7 Ave 06/1.3

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			NULW HUVI								
2			LEGO ATFI								
3			SPTO								ad. + juvs
4		JWCOHA7-702	COHA								ad. + 2+ juvs perched near (kids calling)
5			WBNH OATI								
6			HZOR ATVA								
7			SPTO SPTO								juv.
8			BEAR								Ⓢ
9			CORA WSTJ								(just called)
10			NULW BAGR								
11			LASO								
12			CATT CACY								
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fiedgling

¹ Special Status species and all raptors

Comments per observation #: _____

LBN#7 WIFL#4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: #2

DATE: 7/6/10 OBSERVER: Jimmy McHerron
Dorey Cillek START TIME: 0900 END TIME: 0942 GPS SM 121 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 75/75

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0.7/1 High: 57/55 Ave: 27/2.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			WOWP LAGO								
2			WEST								
3			WOWP ALAI								
4			HORR SOSP								
5			BHGR								(Family)
6			LAGO NUHO								
7			MSHO								
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

LAVANOR Dancer?

SARA in vic.

Comments per observation #: _____

LBY# 7 WIFL# 4

BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # 1 STATION: #49

DATE: 7/6/10 OBSERVER: Jimmy McManis / Doug Godick START TIME: 0953 END TIME: 1003 GPS SM14 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 18 TEMP (°F) 76 / 76

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW NE SPEED (MPH) Low: 0 High: 26 Ave: 11.3

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1			OATI								
2			YEDA:								
3			SPID 365A								
4			BUSH HOUR								
5			ABOR ATFL								
6			NYCOO								
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

SJFL/LBV

DATE: 7/16/10 OBSERVER: BMJ, ER: START TIME: 0941 END TIME: 1003 GPS 8 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0 10 TEMP (°F) 86.6 190.0

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW ^{1,2} NW n/a SPEED (MPH) Low: 0.013 High: 2.613.1 Ave: 1.611.9

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0941		CORA						N	✓	
2			HOFI						/	✗	
3			ATFL								
4			WEST								
5		BMLL10	LAGO								
6			ORTI								
7			BNBR		FL					✗	Conf. breeding
8			BLSN							✗	
9			BUSH						✓		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
 † Special Status species and all raptors

Comments per observation #: _____

SJFL/LBU

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 5/8 STATION: 3

DATE: 7/16/10 OBSERVER: ZMU START TIME: 0759 END TIME: 0930 GPS T PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0/0 TEMP (°F) 80.2/86.7

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW WNW n/a SPEED (MPH) Low: 0/0 High: 0/15 Ave: 0/11.0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0759		NAND						N		strange location ID by voice + bill size + plume
2			ACWD						N	X	
3			RTHA	U	1/2	3			R		
4			DATI						N		
5			LEGO								
6			CORA							X	
7			SPTO							X	
8		BML609	LALB								
9			PRAI								
10			LAZB								
11			ATFL								
12			HOWR								
13			NUWO						V	X	
14		BMC006	COLA	U	FL				R		
15			BNGR						N	X	
16			WESS								
17			HUYI								
18			CALT								
19			WBNU								
20			SOSP		FL						

^a check if Auditory only

* Age: (A) Adult, (SA) Subadult, (F) Fledgling

¹ Special Status species and all raptors

Comments per observation #: _____

SWFL / LBV

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # 5/8 STATION: 4

DATE: 7/16/10 OBSERVER: BMS, ER START TIME: 0549 END TIME: 0745 GPS 8 PAGE 1 OF 2

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0 / 0 TEMP (°F) 68.4 / 78

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0 / 10 High: 0 / 0 Ave: 0 / 10

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail other _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0549	RSNA	BUSHTON		A/FL	2+			R	Y	≥ 1 FL
2		RTNA			A				R		
3		WELP							N	X	
4		PLWR								Y	
5		ATFL								Y	
6		NUWO								Y	
7		WEST								Y	
8		BRBL								Y	
9		NDFL								Y	
10		MWBO								Y	
11		KWBL								X	
12		COYE								X	
13		LEBO								X	
14		MALL									
15		BHGR									
16		PHAI									
17		WBNU									
18		CALT								X	
19		HOWR									
20		BLGR							Y	X	

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
21			BEWR						N	X	
22			ACWD								
23			SPTD								
24	0643	BACB01	BHCO	M							flyby
25			HUVI								
26			ANHU							X	
27			WREN							X	
28			ELSW								
29		BML608	LAGO							X	
30			COHU							X	
31			OATI							X	
32			CORA								
33			CAJU							X	
34			CATW							X	
35			BLPH								
36			BRRD							X	

^a check if Auditory only
^{*} Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Activity Codes		Habitats		Sensitive Species Codes					
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah sparrow	GS	Grasshopper sparrow	WF	Southwestern willow flycatcher
CS	Circle	BSS	Big Sagebrush Scrub	SG	Bell's sage sparrow	GV	Gray vireo	SU	Summer tanager
HU	Hunting/ Foraging	SSS	Upper Sonoran Subshrub Scrub	CB	Brown headed cowbird	GE	Golden eagle	SH	Swainson's hawk
OT	Other	SOCH	Scrub Oak Chaparral	BW	Burrowing owl	LG	Lawrence's goldfinch	TB	Tricolored blackbird
		CLOW	Coast Live Oak Woodland	CC	California condor	BV	Least Bell's vireo	VF	Vermilion flycatcher
		SWS	Southern Willow Scrub	LA	California horned lark	LH	Loggerhead shrike	WK	White-tailed kite
		NNG	Nonnative Grassland	RP	California rufous-crowned sparrow	LO	Long-eared owl	YB	Western yellow-billed cuckoo
				CW	Coastal cactus wren	ME	Merlin	YW	Yellow warbler
				CG	Coastal California gnatcatcher	NH	Northern harrier	YC	Yellow-breasted chat
						PF	Peregrine falcon		
						FA	Prairie falcon		
						PU	Purple martin		

Comments per observation #: _____

SWFL/LBV

BIRD AREA SEARCH DATASHEET

CAMPO WIND ENERGY PROJECT

Survey # ^{SWFL LBVI} 58 STATION: 6

DATE: 7/16/10 OBSERVER: BMU/ERL START TIME: 0522 END TIME: 0538 GPS 8 PAGE 1 OF 1

WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) ^{1,2} GOOD FAIR POOR CLOUD COVER (%) 0, 0 TEMP (°F) 71.3, 71.5

WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) Low: 0/0 High: 0/0 Ave: 0/0

PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) ^{1,2} None light rain rain light snow snow sleet hail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non-Raptor	A ^a	Breeding Status/Behavioral Notes
1	0522		SPTO						NX		
2			ATEL							X	
3			BEWR							X	
4			YWR							X	
5			CALT							X	
6			SOXP								
7			LEBJ								
8			HOPI								
9			CATE							X	
10			BUSH								
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

^a check if Auditory only
 * Age: (A) Adult, (SA) Subadult, (F) Fledgling
¹ Special Status species and all raptors

Comments per observation #: _____

APPENDIX D-2

*2018 Least Bell's Vireo and Southwestern Willow
Flycatcher Focused Survey Report
for the Torrey Wind Project*

October 10, 2018

10212

Recovery Permit Coordinator
U.S. Fish and Wildlife Service
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

Subject: 2018 Least Bell's Vireo and Southwestern Willow Flycatcher Focused Survey Report for the Torrey Wind Project, Boulevard, San Diego County, California

Dear Recovery Permit Coordinator:

This report documents the results of protocol-level presence/absence surveys for the state- and federally listed endangered least Bell's Vireo (*Vireo bellii pusillus*; vireo) and the state- and federally listed endangered southwestern willow flycatcher (*Empidonax traillii extimus*; flycatcher). The surveys were conducted in support of the Torrey Wind project (Project), located in the County of San Diego, California. The Project would involve construction and operation of approximately 32 new wind turbines (rated up to 4.2 megawatts each), an underground electrical collection system, a collector substation, an operation and maintenance (O&M) building and associated parking areas, a temporary staging area, a batch plant, meteorological towers, and various access roads. The Project site contains approximately 13.1 acres of potentially suitable vireo and flycatcher habitat that were surveyed in 2018.

The vireo and flycatcher are closely associated with riparian habitats, especially densely vegetated willow scrub and riparian forest vegetation. These species are threatened primarily by loss, degradation, and fragmentation of riparian habitats. They also are impacted by brown-headed cowbird (*Molothrus ater*) nest parasitism.

LOCATION AND EXISTING CONDITIONS

The study area is entirely on private land in southeastern San Diego County, California in the McCain Valley area, north of the community of Boulevard and is accessed via Interstate 8 and Ribbonwood Road (Figure 1, Project Location). The study area is within the U.S. Geological Survey's 7.5-minute Sombrero Peak and Live Oak Springs quadrangle maps within Township 17 South, Range 6 East, Sections 01, 05, and 06; Township 17 South, Range 7 East, Sections 05 and 06; and Township 16 South, Range 6 East, Sections 19, 20, 29, 30, 31, and 32 (Figure 1).

Elevations range from about 3,280 feet above mean sea level to approximately 4,120 feet above mean sea level.

According to the U.S. Department of Agriculture, Natural Resources Conservation Service, the following seven soil series were mapped within the study area: Calpine (coarse sandy loam, 5% to 9% slopes); La Posta (loamy coarse sand, 5% to 30% slopes, eroded; rocky loamy coarse sand, 5% to 30% slopes, eroded); loamy alluvial land; Mottsville (loamy coarse sand, 2% to 9% slopes); and Tollhouse (rocky coarse sandy loam, 5% to 30% slopes, eroded) (USDA 2018).

VEGETATION COMMUNITIES

Approximately 13.1 acres of vireo- and flycatcher-suitable habitat were mapped on the Project site according to Oberbauer et al. (2008) (Figure 2, Least Bell's Vireo and Southwestern Willow Flycatcher Survey Results). Habitats suitable for vireo and flycatcher within the study area include mulefat scrub, mature riparian woodland, and oak woodland.

Mulefat Scrub

Mulefat scrub is a depauperate, tall, herbaceous riparian scrub strongly dominated by mulefat (*Baccharis salicifolia*). This early seral community is maintained by frequent flooding. Site factors include intermittent stream channels with fairly coarse substrate and moderate depth to the water table (Oberbauer et al. 2008). This community type is widely scattered along intermittent streams and near larger rivers.

Riparian Woodland

Riparian woodland is an open to dense riparian woodland dominated by riparian trees, including western sycamore (*Platanus racemosa*), *Populus* species, *Sambucus* species, and other wetland plants (Oberbauer et al. 2008). Riparian woodland is primarily found along streams and rivers.

Oak Woodland

Oak woodland is a forest dominated by oak (*Quercus* sp.) in the tree canopy cover and has a poorly developed shrub layer (Oberbauer et al. 2008). Oak woodland is primarily found along shaded ravines.

METHODS

Suitable habitat areas within the study area were surveyed eight times for vireo and five times for flycatcher. Flycatcher-permitted Dudek wildlife biologist, Brock A. Ortega (Permit # TE813545-

6), conducted all combined flycatcher/vireo surveys (Table 1). The flycatcher-permitted biologist used audio-playback techniques to elicit flycatcher responses. Focused surveys for these species were initiated on May 19, 2018, and continued through July 28, 2018.

Table 1
Vireo and Flycatcher Survey Schedule and Conditions

Survey Pass #/ Focus	Date	Hours	Personnel	Conditions (temperature, cloud cover, wind speed)
1-LBVI 1-SWFL	2018-05-19	6:30 AM–11:00 AM	BAO	60–72°F; 0–20% cc; 0–3 mph wind
2-LBVI	2018-05-28	5:30 AM–10:30 AM	BAO	57–74°F; 0–50% cc; 3–8 mph wind
3-LBVI 2-SWFL	2018-06-07	5:35 AM–10:06 AM	BAO	57–70°F; 20% cc; 3–8 mph wind
4-LBVI 3-SWFL	2018-06-17	6:10 AM–11:05 AM	BAO	60–80°F; 0% cc; 3–5 mph wind
5-LBVI	2018-06-27	5:20 AM–11:10 AM	BAO	55–90°F; 0% cc; 3–8 mph wind
6-LBVI 4-SWFL	2018-07-07	5:30 AM–10:30 AM	BAO	78–95°F; 0% cc; 0–1 mph wind
7-LBVI 5-SWFL	2018-07-17	5:30 AM–10:30 AM	BAO	76–88°F; 20–100% cc; 0–10 mph wind
8-LBVI	2018-07-28	5:45 AM–10:30 AM	BAO	60–89°F; 10–80% cc; 0–3 mph wind

Notes: LBVI = least Bell's vireo; SWFL = Southwestern willow flycatcher; BAO = Brock Ortega; cc = cloud cover; mph = miles per hour; °F = degrees Fahrenheit.

As directed by Stacey Love, United States Fish & Wildlife Service (USFWS) Recovery Permit Coordinator, surveys for vireo and flycatcher were not conducted concurrently. Due to differences in detectability, surveys were conducted sequentially, with surveys for the flycatcher first (i.e., first thing in the morning) and surveys for the vireo conducted afterwards. Additionally, for linear survey routes within a riparian corridor: flycatchers were surveyed from the starting point to the end, and vireos were surveyed on the way back. This route was arranged to cover all suitable habitat on site. A vegetation map (1:2,400 scale; 1 inch=200 feet) of the study area was available to record any detected vireo or flycatcher. Binoculars (7×50, 10×42, 10×50) were used to aid in detecting and identifying wildlife species.

The five surveys conducted for flycatcher followed the currently accepted protocol (*A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher* [Sogge et al. 2010]), which states that a minimum of five survey visits is needed to evaluate project effects on flycatchers. It is recommended that one survey is made between May 15 and 31, two surveys between June 1 and June 24, and two surveys between June 25 and July 17. Surveys during the

final period (June 25 and July 17) were separated by at least five days. A tape of recorded flycatcher vocalizations was used, approximately every 50 to 100 feet within suitable habitat, to induce flycatcher responses. If a flycatcher had been detected, playing of the tape would have ceased to avoid harassment.

A Section 10(a)(1)(A) permit is not required to conduct presence/absence surveys for vireo. The eight surveys for vireo followed the currently accepted *Least Bell's Vireo Survey Guidelines* (USFWS, 2001), which states that a minimum of eight survey visits should be made to all riparian areas and any other potential vireo habitats between April 10 and July 31. The site visits are required to be conducted at least 10 days apart to maximize the detection of early and late arrivals, females, non-vocal birds, and nesting pairs. Taped playback of vireo vocalizations were not used during the surveys. Surveys were conducted between dawn and noon and were not conducted during periods of excessive or abnormal cold, heat, wind, rain, or other inclement weather.

Weather conditions, time of day, and season were appropriate for the detection of flycatcher and vireo (Table 1).

RESULTS

No vireo or flycatchers were observed during focused surveys.

Sensitive species observed included yellow warbler (*Dendroica petechia*), a California Department of Fish and Wildlife (CDFW) Species of Special Concern; Cooper's hawk (*Accipiter cooperii*), a CDFW Watch List species; Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), a CDFW Watch List species; and San Diegan tiger whiptail (*Aspidoscelis tigris stejnegeri*), a CDFW Species of Special Concern. However, only yellow warbler was mapped during the focused survey. Sensitive species observation locations are shown in Figure 2. Brown-headed cowbird was also detected within the study area.

Fifty-three wildlife species were observed during the focused surveys. A full list of wildlife species observed during the survey is provided in Appendix A.

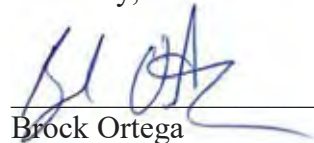
Please feel free to contact me at 760.479.4254 with questions or if you require additional information.

Recovery Permit Coordinator

Subject: 2018 Least Bell's Vireo and Southwestern Willow Flycatcher Focused Survey Report for the Torrey Wind Project, Boulevard, San Diego County, California

I certify that the information in this survey report and attached exhibits fully and accurately represent my work.

Sincerely,

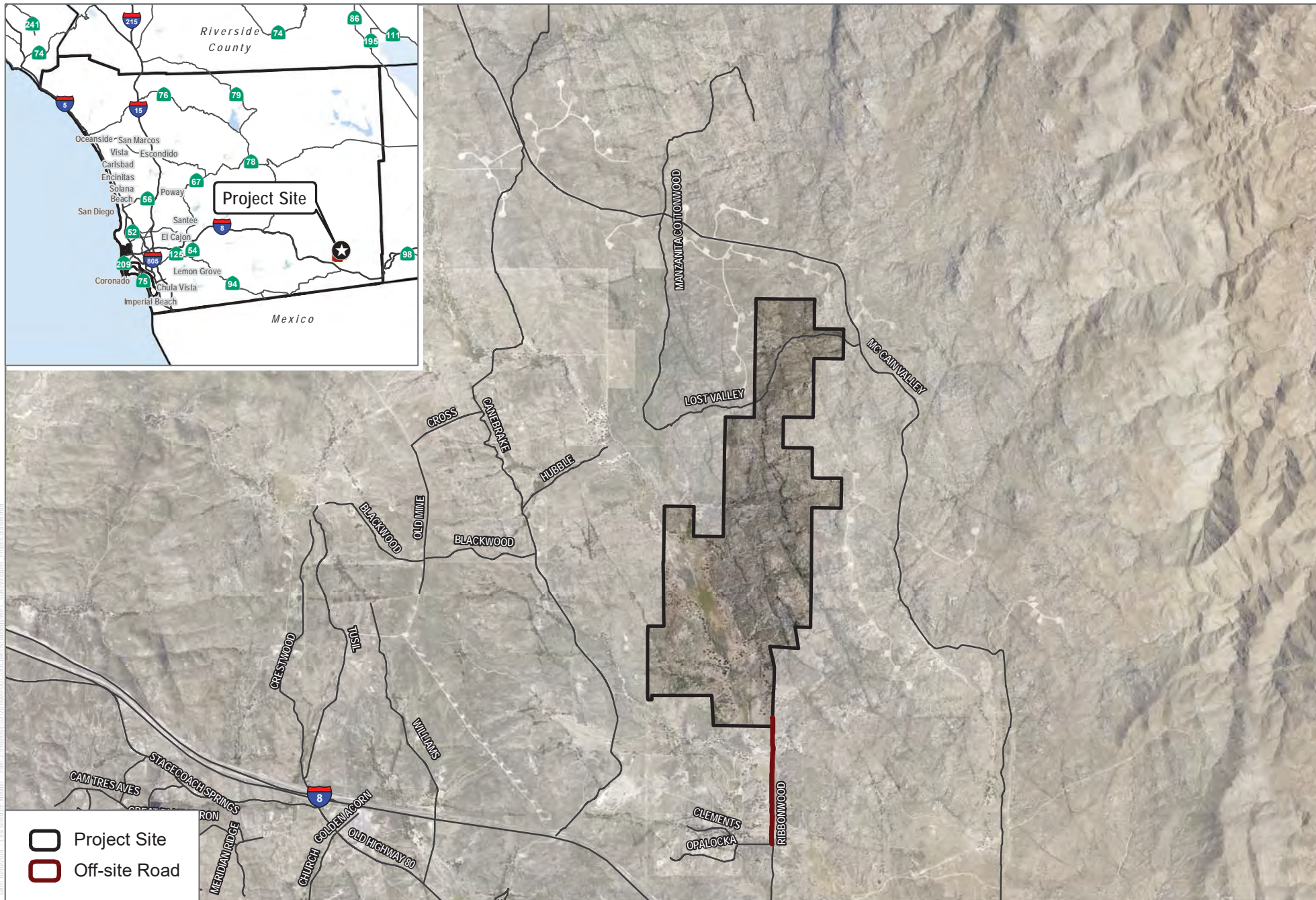


Brock Ortega
Permit #TE813545-6

*Att: Figures 1–2
Appendix A*

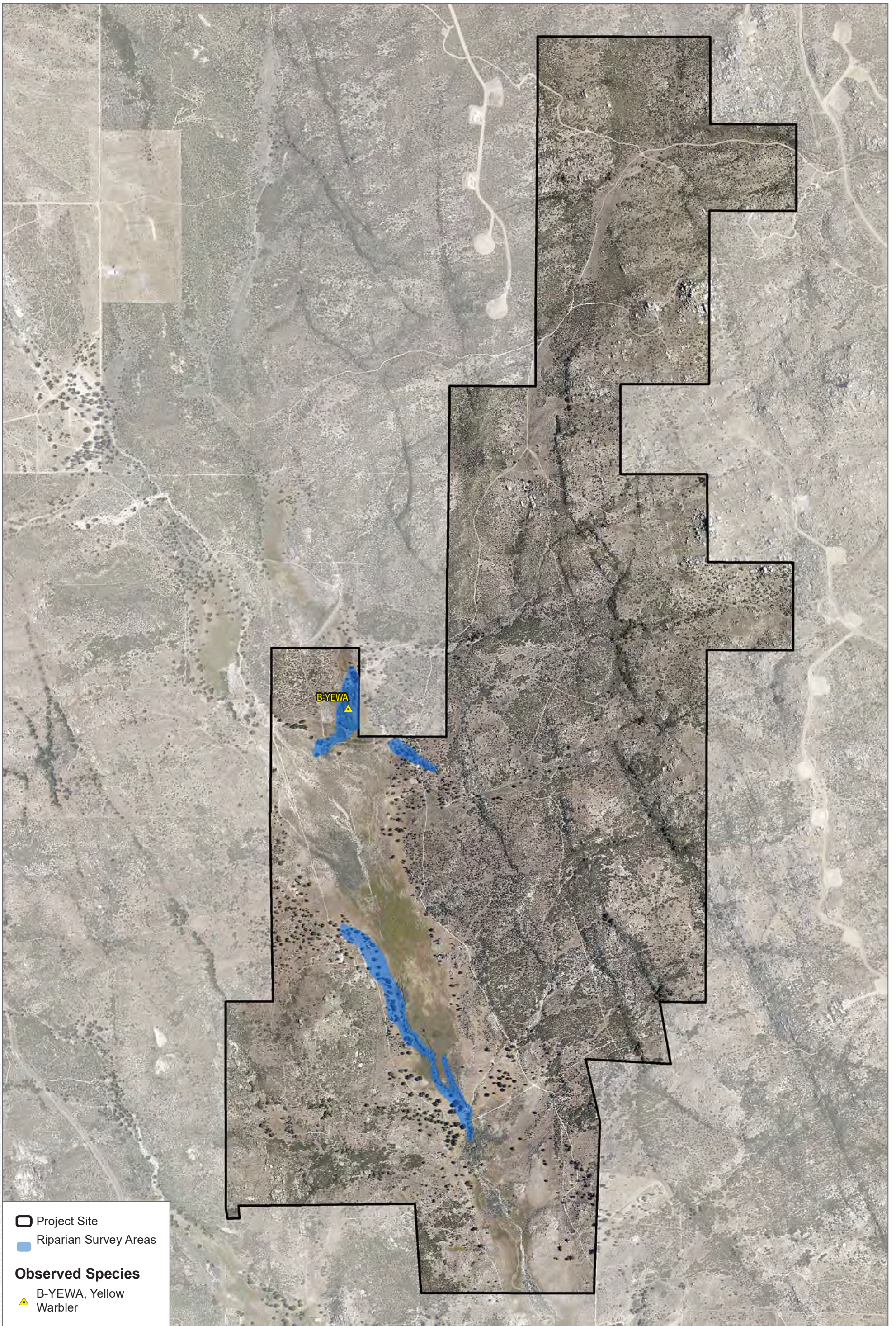
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- Sogge, M.K., Ahlers, Darrell, and Sferra, S.J., 2010. *A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher*. U.S. Geological Survey Techniques and Methods 2A-10, 38 p.
- USDA (U.S. Department of Agriculture). 2018. Web Soil Survey [web application]. USDA, Natural Resources Conservation Service. <http://websoilsurvey.nrcs.usda.gov/app/>.
- USFWS. 2001. *Least Bell's Vireo Survey Guidelines*. January 19.



SOURCE: SANGIS 2017

FIGURE 1
Project Location



Project Site
 Riparian Survey Areas
Observed Species
▲ B-YEWA, Yellow Warbler

SOURCE: SANGIS 2017



FIGURE 2

Least Bell's Vireo and Southwestern Willow Flycatcher Survey Results
 2018 Least Bell's Vireo and Southwestern Willow Flycatcher Focused Survey Report for the Torrey Wind Project

APPENDIX A

Wildlife Species Observed in Study Area

BIRD

BLACKBIRDS, ORIOLES & ALLIES

ICTERIDAE—BLACKBIRDS

Euphagus cyanocephalus—Brewer's blackbird

Icterus cucullatus—hooded oriole

* *Molothrus ater*—brown-headed cowbird

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS & BUSHTITS

Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS & ALLIES

CARDINALIDAE—CARDINALS & ALLIES

Piranga ludoviciana—western tanager

FINCHES

FRINGILLIDAE—FRINGILLINE & CARDUELINE FINCHES & ALLIES

Haemorhous mexicanus—house finch

Spinus tristis—American goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Sayornis nigricans—black phoebe

Sayornis saya—Say's phoebe

Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, & ALLIES

Accipiter cooperii—Cooper's hawk

Buteo jamaicensis—red-tailed hawk

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Archilochus alexandri—black-chinned hummingbird

Calypte anna—Anna's hummingbird

JAYS, MAGPIES & CROWS

CORVIDAE—CROWS & JAYS

Apelocoma californica—California scrub-jay

Corvus brachyrhynchos—American crow

Corvus corax—common raven

MOCKINGBIRDS & THRASHERS

MIMIDAE—MOCKINGBIRDS & THRASHERS

Toxostoma redivivum—California thrasher

NEW WORLD QUAIL

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

NEW WORLD VULTURES

CATHARTIDAE—NEW WORLD VULTURES

Cathartes aura—turkey vulture

PIGEONS & DOVES

COLUMBIDAE—PIGEONS & DOVES

Zenaida macroura—mourning dove

ROADRUNNERS & CUCKOOS

CUCULIDAE—CUCKOOS, ROADRUNNERS, & ANIS

Geococcyx californianus—greater roadrunner

SILKY FLYCATCHERS

PTILOGONATIDAE—SILKY-FLYCATCHERS

Phainopepla nitens—phainopepla

SWIFTS

APODIDAE—SWIFTS

Aeronautes saxatalis—white-throated swift

THRUSHES

TURDIDAE—THRUSHES

Sialia mexicana—western bluebird

TITMICE

PARIDAE—CHICKADEES & TITMICE

Baeolophus inornatus—oak titmouse

WOOD WARBLERS & ALLIES

PARULIDAE—WOOD-WARBLERS

Cardellina pusilla—Wilson's warbler

Setophaga petechia—yellow warbler

WOODPECKERS

PICIDAE—WOODPECKERS & ALLIES

Colaptes auratus—northern flicker

Dryobates nuttallii—Nuttall's woodpecker

WRENS

TROGLODYTIDAE—WRENS

Salpinctes obsoletus—rock wren

Thryomanes bewickii—Bewick's wren

Troglodytes aedon—house wren

WRENTITS

TIMALIIDAE—BABBLERS

Chamaea fasciata—wrentit

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

Aimophila ruficeps canescens—Southern California rufous-crowned sparrow

Aimophila ruficeps—rufous-crowned sparrow

Artemisospiza nevadensis—sagebrush sparrow

Melospiza melodia—song sparrow

Pipilo maculatus—spotted towhee

Spizella atrogularis—black-chinned sparrow

MAMMAL

CANIDS

CANIDAE—WOLVES & FOXES

Canis latrans—coyote

CATS

FELIDAE—CATS

Lynx rufus—bobcat

HARES & RABBITS

LEPORIDAE—HARES & RABBITS

Lepus californicus—black-tailed jackrabbit

Sylvilagus audubonii—desert cottontail

MUSTELIDS

MEPHITIDAE—SKUNKS

Mephitis mephitis—striped skunk

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

Thomomys bottae—Botta's pocket gopher

SQUIRRELS

SCIURIDAE—SQUIRRELS

Ammospermophilus leucurus—white-tailed antelope squirrel

Spermophilus (Otospermophilus) beecheyi—California ground squirrel

UNGULATES

CERVIDAE—DEERS

Odocoileus hemionus—mule deer

RATS, MICE, & VOLES

CRICETIDAE—RATS, MICE, & VOLES

Neotoma sp.—woodrat

REPTILE

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

Sceloporus occidentalis—western fence lizard

Uta stansburiana—common side-blotched lizard

TEIIDAE—WHIPTAIL LIZARDS

Aspidoscelis tigris stejnegeri—San Diegan tiger whiptail

* signifies introduced (non-native) species

APPENDIX E-1
Plant Species Observed

APPENDIX E-1

Plant Species Observed

EUDICOTS

VASCULAR SPECIES

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

AMARANTHACEAE—AMARANTH FAMILY

* *Amaranthus albus*—prostrate pigweed

ANACARDIACEAE—SUMAC OR CASHEW FAMILY

Rhus aromatica—basket bush

Rhus ovata—sugarbush

APIACEAE—CARROT FAMILY

¹ *Apiastrum angustifolium*—mock parsley

¹ *Berula erecta*—cutleaf waterparsnip

¹ *Bowlesia incana*—hoary bowlesia

¹ *Lomatium dasycarpum* ssp. *dasycarpum*—woollyfruit desertparsley

¹ *Lomatium mohavense*—Mojave desertparsley

Tauschia arguta—southern umbrellawort

APOCYNACEAE—DOGBANE FAMILY

¹ *Asclepias fascicularis*—Mexican whorled milkweed

ASTERACEAE—SUNFLOWER FAMILY

¹ *Achillea millefolium*—common yarrow

Acourtia microcephala—sacapellote

Ambrosia acanthicarpa—flatspine bur ragweed

¹ *Ambrosia confertiflora*—weakleaf bur ragweed

Ambrosia psilostachya—western ragweed

Anisocoma acaulis—scalebud

Artemisia dracunculus—wild tarragon

Artemisia tridentata ssp. *tridentata*—basin big sagebrush

Baccharis salicifolia—mulefat

¹ *Baccharis sergiloides*—broom baccharis

¹ *Brickellia californica*—California brickellbush

¹ *Calycoseris parryi*—yellow tackstem

* *Carduus pycnocephalus*—Italian plumeless thistle

*¹ *Carthamus tinctorius*—safflower

APPENDIX E-1 (Continued)

- *¹ *Centaurea benedicta*—blessed thistle
- *¹ *Centaurea solstitialis*—yellow star-thistle
- ¹ *Chaenactis artemisiifolia*—white pincushion
- Chaenactis glabriuscula* var. *glabriuscula*—yellow pincushion
- Chaenactis* sp.—pincushion
- ¹ *Cirsium occidentale* var. *californicum*—cobwebby thistle
- * *Cirsium vulgare*—bull thistle
- ¹ *Corethrogyne filaginifolia*—common sandaster
- ¹ *Ericameria brachylepis*—chaparral goldenbush
- ¹ *Ericameria cuneata* var. *spathulata*—cliff goldenbush
- Ericameria linearifolia*—narrowleaf goldenbush
- ¹ *Ericameria pinifolia*—pinebush
- Ericameria* sp.—no common name
- Erigeron canadensis*—Canadian horseweed
- Erigeron foliosus* var. *foliosus*—leafy fleabane
- Eriophyllum confertiflorum* var. *confertiflorum*—golden-yarrow
- Eriophyllum wallacei*—woolly easterbonnets
- Euthamia occidentalis*—western goldentop
- ¹ *Geraea viscida*—sticky geraea
- ¹ *Gnaphalium palustre*—western marsh cudweed
- Gutierrezia californica*—California match weed
- Gutierrezia sarothrae*—broom snake weed
- ¹ *Hazardia squarrosa* var. *grindelioides*—sawtooth bristleweed
- *¹ *Helminthotheca echioides*—bristly oxtongue
- ¹ *Heterotheca grandiflora*—telegraphweed
- Isocoma acradenia*—alkali goldenbush
- Isocoma menziesii*—Menzies’s golden bush
- * *Lactuca serriola*—prickly lettuce
- Lasthenia coronaria*—royal goldfields
- Lasthenia gracilis*—needle goldfields
- Lasthenia* sp.—goldfields
- Layia glandulosa*—whitedaisy tidytips
- ¹ *Leptosyne californica*—California tickseed
- ¹ *Lessingia glandulifera* var. *glandulifera*—valley lessingia
- ¹ *Logfia filaginoides*—California cottonrose
- ¹ *Malacothrix californica*—California desertdandelion
- ¹ *Malacothrix clevelandii*—Cleveland’s desertdandelion
- *¹ *Matricaria discoidea*—disc mayweed
- ¹ *Osmadenia tenella*—false rosinweed

APPENDIX E-1 (Continued)

Pseudognaphalium californicum—ladies' tobacco
Pseudognaphalium canescens—Wright's cudweed
Pseudognaphalium ramosissimum—pink cudweed
Rafinesquia neomexicana—New Mexico plumeseed
Senecio californicus—California ragwort
Senecio flaccidus var. *monoensis*—smooth threadleaf ragwort
Solidago velutina ssp. *californica*—threenerve goldenrod
Stephanomeria diegensis—San Diego wirelettuce
Stephanomeria exigua ssp. *deanei*—Deane's wirelettuce
Stylocline gnaphaloides—mountain neststraw
Tetradymia comosa—hairy horsebrush
Uropappus lindleyi—Lindley's silverpuffs
Xanthium strumarium—cocklebur

BORAGINACEAE—BORAGE FAMILY

Amsinckia intermedia—common fiddleneck
Amsinckia menziesii—Menzies' fiddleneck
Amsinckia tessellata—bristly fiddleneck
1 *Cryptantha intermedia*—Clearwater cryptantha
1 *Cryptantha maritima*—Guadalupe cryptantha
1 *Cryptantha micrantha*—redroot cryptantha
Cryptantha sp.—cryptantha
1 *Emmenanthe penduliflora* var. *penduliflora*—whisperingbells
1 *Eriodictyon trichocalyx* var. *lanatum*—hairy yerba santa
1 *Eucrypta chrysanthemifolia* var. *bipinnatifida*—spotted hideseed
Heliotropium curassavicum—salt heliotrope
Nemophila menziesii var. *integrifolia*—baby blue eyes
1 *Pectocarya linearis*—sagebrush combseed
1 *Pectocarya penicillata*—sleeping combseed
1 *Pectocarya setosa*—moth combseed
Pectocarya sp.—combseed
Phacelia brachyloba—shortlobe phacelia
Phacelia cicutaria var. *hispida*—caterpillar phacelia
Phacelia distans—distant phacelia
Phacelia imbricata var. *patula*—imbricate phacelia
Phacelia parryi—Parry's phacelia
Phacelia tanacetifolia—lacy phacelia
Pholistoma membranaceum—white fiestaflower
Plagiobothrys arizonicus—Arizona popcornflower

APPENDIX E-1 (Continued)

Plagiobothrys collinus var. *fulvescens*—Cooper's popcornflower

Plagiobothrys nothofulvus—popcorn flower

Plagiobothrys sp.—popcornflower

BRASSICACEAE—MUSTARD FAMILY

- ¹ *Athysanus pusillus*—common sandweed
- Boechera perennans*—perennial rockcress
- ¹ *Boechera pulchra*—beautiful rockcress
- ¹ *Boechera sparsiflora*—sicklepod rockcress
- ¹ *Boechera xylopoda*—beautiful rockcress
- * *Brassica* sp.—no common name
- ¹ *Caulanthus heterophyllus*—San Diego wild cabbage
- ¹ *Caulanthus lasiophyllus*—California mustard
- ¹ *Caulanthus simulans*—Payson's jewelflower
- ¹ *Descurainia incana*—mountain tansymustard
- Descurainia pinnata* ssp. *glabra*—western tansymustard
- ¹ *Draba cuneifolia*—wedgeleaf draba
- ¹ *Erysimum capitatum* var. *capitatum*—sanddune wallflower
- * *Hirschfeldia incana*—shortpod mustard
- ¹ *Lepidium virginicum* ssp. *menziesii*—intermediate pepperweed
- ¹ *Nasturtium officinale*—watercress
- * *Sisymbrium altissimum*—tall tumbledustard
- * *Sisymbrium irio*—London rocket
- * *Sisymbrium orientale*—Indian hedgemustard
- Streptanthus campestris*—southern jewelflower
- Thysanocarpus curvipes*—sand fringe pod
- Thysanocarpus laciniatus*—mountain fringe pod
- Tropidocarpum gracile*—dobie pod
- Turritis glabra*—tower rockcress

CACTACEAE—CACTUS FAMILY

- Cylindropuntia californica* var. *parkeri*—brownspined pricklypear
- ¹ *Opuntia phaeacantha*—tulip pricklypear

CAMPANULACEAE—BELLFLOWER FAMILY

- ¹ *Nemacladus longiflorus* var. *breviflorus*—longflower threadplant

CAPRIFOLIACEAE—HONEYSUCKLE FAMILY

- ¹ *Lonicera subspicata* var. *denudata*—Santa Barbara honeysuckle

APPENDIX E-1 (Continued)

CARYOPHYLLACEAE—PINK FAMILY

- ¹ *Cardionema ramosissimum*—sandcarpet
- ¹ *Minuartia douglasii*—Douglas' stitchwort
- Spergularia* sp.—sanspurry

CHENOPODIACEAE—GOOSEFOOT FAMILY

- ¹ *Atriplex canescens* var. *canescens*—fourwing saltbush
- * *Chenopodium album*—lambsquarters
- ¹ *Chenopodium californicum*—California goosefoot
- * *Salsola tragus*—prickly Russian thistle

CONVOLVULACEAE—MORNING-GLORY FAMILY

- ¹ *Calystegia longipes*—Paiute false bindweed
- Cuscuta californica* var. *californica*—chaparral dodder

CRASSULACEAE—STONECROP FAMILY

- ¹ *Crassula connata*—sand pygmyweed
- ¹ *Dudleya abramsii* ssp. *abramsii*—Abrams' liveforever
- ¹ *Dudleya lanceolata*—lanceleaf liveforever
- ¹ *Dudleya pulverulenta*—chalk dudleya

CUCURBITACEAE—GOURD FAMILY

- ¹ *Cucurbita foetidissima*—Missouri gourd
- Marah macrocarpa*—Cucamonga manroot

ERICACEAE—HEATH FAMILY

- ¹ *Arctostaphylos glandulosa* ssp. *cushingiana*—Eastwood's manzanita
- ¹ *Arctostaphylos glauca*—bigberry manzanita
- Arctostaphylos pungens*—pointleaf manzanita
- Arctostaphylos* sp.—manzanita
- Xylococcus bicolor*—mission manzanita

EUPHORBIACEAE—SPURGE FAMILY

- ¹ *Euphorbia albomarginata*—whitemargin sandmat
- ¹ *Euphorbia serpyllifolia* ssp. *serpyllifolia*—thymeleaf sandmat

FABACEAE—LEGUME FAMILY

- Acmispon argophyllus* var. *argophyllus*—silver bird's-foot trefoil
- Acmispon glaber* var. *brevialatus*—western bird's-foot trefoil
- ¹ *Acmispon heermannii* var. *heermannii*—Heermann's bird's-foot trefoil
- ¹ *Acmispon micranthus*—San Diego bird's-foot trefoil

APPENDIX E-1 (Continued)

- ¹ *Acmispon strigosus*—strigose bird's-foot trefoil
- ¹ *Astragalus douglasii* var. *perstrictus*—Jacumba milk-vetch
- ¹ *Lathyrus splendens*—pride-of-California
- ¹ *Lathyrus vestitus* var. *alefeldii*—Alefeld's pea
- * *Lotus corniculatus*—bird's-foot trefoil
- ¹ *Lupinus arizonicus*—Arizona lupine
- ¹ *Lupinus bicolor*—miniature lupine
- ¹ *Lupinus concinnus*—bajada lupine
- ¹ *Lupinus excubitus* var. *austromontanus*—mountain bush lupine
- ¹ *Lupinus formosus* var. *formosus*—summer lupine
- ¹ *Lupinus hirsutissimus*—stinging annual lupine
- Lupinus* sp.—lupine
- ¹ *Lupinus truncatus*—collared annual lupine
- * *Medicago lupulina*—black medick
- *¹ *Melilotus indicus*—annual yellow sweetclover
- * *Robinia pseudoacacia*—black locust
- * *Trifolium hirtum*—rose clover
- Trifolium microcephalum*—smallhead clover
- Trifolium obtusiflorum*—clammy clover
- Trifolium willdenovii*—tomcat clover
- * *Vicia villosa*—winter vetch

FAGACEAE—OAK FAMILY

- Quercus* × *acutidens*—hybrid oak
- Quercus agrifolia* var. *oxyadenia*—coast live oak
- Quercus cornelius-mulleri*—Muller oak
- Quercus wislizeni* var. *frutescens*—interior live oak

GARRYACEAE—SILK TASSEL FAMILY

- ¹ *Garrya veatchii*—canyon silktassel

GENTIANACEAE—GENTIAN FAMILY

- ¹ *Frasera parryi*—Coahuila frasera

GERANIACEAE—GERANIUM FAMILY

- * *Erodium cicutarium*—redstem stork's bill
- * *Erodium* sp.—stork's bill

GROSSULARIACEAE—GOOSEBERRY FAMILY

- Ribes quercetorum*—oak gooseberry

APPENDIX E-1 (Continued)

LAMIACEAE—MINT FAMILY

- *¹ *Lamium amplexicaule*—henbit deadnettle
- * *Marrubium vulgare*—horehound
- Salvia apiana*—white sage
- Salvia columbariae*—chia
- Stachys rigida* var. *rigida*—rough hedgenettle
- Trichostema lanatum*—woolly bluecurls
- Trichostema parishii*—Parish’s bluecurls

LOASACEAE—LOASA FAMILY

- ¹ *Mentzelia veatchiana*—Veatch’s blazingstar

MALVACEAE—MALLOW FAMILY

- Sidalcea sparsifolia*—dwarf checkerbloom

MONTIACEAE—MONTIA FAMILY

- ¹ *Calandrinia menziesii*—red maids
- ¹ *Calyptridium monandrum*—common pussypaws
- ¹ *Claytonia parviflora* ssp. *parviflora*—streambank springbeauty
- ¹ *Claytonia perfoliata* ssp. *perfoliata*—miner’s lettuce

MYRSINACEAE—MYRSINE FAMILY

- * *Lysimachia arvensis*—scarlet pimpernel

NYCTAGINACEAE—FOUR O’CLOCK FAMILY

- ¹ *Mirabilis laevis* var. *crassifolia*—California four o’clock
- ¹ *Mirabilis multiflora* var. *pubescens*—Colorado four o’clock

ONAGRACEAE—EVENING PRIMROSE FAMILY

- ¹ *Camissonia strigulosa*—sandysoil suncup
- ¹ *Camissoniopsis hirtella*—Santa Cruz Island suncup
- ¹ *Clarkia epilobioides*—canyon clarkia
- ¹ *Clarkia purpurea* ssp. *quadrivulnera*—winecup clarkia
- ¹ *Clarkia similis*—Ramona clarkia
- ¹ *Epilobium canum* ssp. *latifolium*—hummingbird trumpet
- ¹ *Epilobium ciliatum* ssp. *ciliatum*—fringed willowherb
- ¹ *Eulobus californicus*—California suncup
- ¹ *Oenothera californica* ssp. *californica*—California evening primrose

OROBANCHACEAE—BROOM-RAPE FAMILY

- ¹ *Aphyllon tuberosum*—chaparral broomrape

APPENDIX E-1 (Continued)

- Castilleja affinis* ssp. *affinis*—coast Indian paintbrush
- ¹ *Castilleja applegatei* ssp. *martinii*—wavyleaf Indian paintbrush
- ¹ *Castilleja foliolosa*—Texas Indian paintbrush
- ¹ *Castilleja minor* ssp. *spiralis*—lesser Indian paintbrush
- ¹ *Cordylanthus rigidus* ssp. *setiger*—stiffbranch bird’s beak

PAEONIACEAE—PEONY FAMILY

- ¹ *Paeonia californica*—California peony

PAPAVERACEAE—POPPY FAMILY

- ¹ *Argemone munita*—flatbud pricklypoppy
- Dendromecon rigida*—bush poppy
- ¹ *Ehrendorferia chrysantha*—golden eardrops
- Eschscholzia californica*—California poppy
- Platystemon californicus*—creamcups

PHRYMACEAE—LOPSEED FAMILY

- Diplacus aurantiacus*—bush monkeyflower
- ¹ *Diplacus brevipes*—widethroat yellow monkeyflower
- ¹ *Diplacus fremontii*—Fremont’s monkeyflower
- ¹ *Erythranthe cardinalis*—scarlet monkeyflower
- ¹ *Erythranthe guttata*—common monkey flower
- ¹ *Mimetanthe pilosa*—false monkeyflower

PLANTAGINACEAE—PLANTAIN FAMILY

- ¹ *Antirrhinum coulterianum*—Coulter’s snapdragon
- ¹ *Antirrhinum nuttallianum* ssp. *nuttallianum*—violet snapdragon
- Collinsia concolor*—Chinese houses
- ¹ *Keckiella antirrhinoides* var. *antirrhinoides*—snapdragon penstemon
- ¹ *Keckiella ternata* var. *ternata*—scarlet keckiella
- Penstemon centranthifolius*—scarlet bugler
- Penstemon clevelandii* var. *clevelandii*—Cleveland’s beardtongue
- Penstemon spectabilis* var. *spectabilis*—showy penstemon

POLEMONIACEAE—PHLOX FAMILY

- Eriastrum densifolium* ssp. *elongatum*—giant woollystar
- ¹ *Eriastrum sapphirinum* ssp. *sapphirinum*—sapphire woollystar
- ¹ *Gilia angelensis*—chaparral gilia
- ¹ *Gilia capitata* ssp. *abrotanifolia*—bluehead gilia
- ¹ *Gilia diegensis*—coastal gilia

APPENDIX E-1 (Continued)

- 1 *Gilia stellata*—star gilia
- 1 *Leptosiphon lemmonii*—Lemmon’s linanthus
- 1 *Leptosiphon parviflorus*—variable linanthus
- 1 *Linanthus bellus*—desert beauty
- Linanthus dianthiflorus*—fringed linanthus
- 1 *Linanthus dichotomus*—eveningsnow
- 1 *Microsteris gracilis*—slender phlox
- Saltugilia australis*—southern gilia

POLYGONACEAE—BUCKWHEAT FAMILY

- 1 *Chorizanthe fimbriata* var. *laciniata*—fringed spineflower
- 1 *Chorizanthe leptotheca*—Peninsular spineflower
- 1 *Eriogonum davidsonii*—Davidson’s buckwheat
- Eriogonum elongatum* var. *elongatum*—longstem buckwheat
- 1 *Eriogonum fasciculatum* var. *foliolosum*—California buckwheat
- Eriogonum fasciculatum* var. *polifolium*—California buckwheat
- Eriogonum gracile* var. *incultum*—slender woolly buckwheat
- 1 *Eriogonum parishii*—mountainmist
- 1 *Eriogonum reniforme*—kidneyleaf buckwheat
- 1 *Eriogonum roseum*—wand buckwheat
- 1 *Eriogonum thurberi*—Thurber’s buckwheat
- 1 *Eriogonum wrightii* var. *membranaceum*—bastardsage
- Persicaria lapathifolia*—smartweed
- Polygonum douglasii*—Douglas’ knotweed
- Pterostegia drymarioides*—woodland pterostegia
- * *Rumex crispus*—curly dock
- Rumex salicifolius*—willow dock
- Sidotheca trilobata*—threelobe oxytheca

RANUNCULACEAE—BUTTERCUP FAMILY

- 1 *Clematis ligusticifolia*—western white clematis
- 1 *Clematis pauciflora*—ropevine clematis
- 1 *Delphinium cardinale*—scarlet larkspur
- 1 *Delphinium parishii* ssp. *subglobosum*—Colorado Desert larkspur

RHAMNACEAE—BUCKTHORN FAMILY

- 1 *Ceanothus cuneatus* var. *cuneatus*—buckbrush
- Ceanothus leucodermis*—chaparral white thorn
- Ceanothus perplexans*—desert ceanothus
- Ceanothus* sp.—ceanothus

APPENDIX E-1 (Continued)

- ¹ *Frangula californica* ssp. *tomentella*—California buckthorn
Rhamnus ilicifolia—hollyleaf redberry

ROSACEAE—ROSE FAMILY

- Adenostoma fasciculatum*—chamise
Adenostoma sparsifolium—redshank
Cercocarpus betuloides var. *betuloides*—birchleaf mountain mahogany
Cercocarpus minutiflorus—smooth mountain mahogany
Cercocarpus sp.—no common name
¹ *Heteromeles arbutifolia*—toyon
Prunus ilicifolia ssp. *ilicifolia*—hollyleaf cherry
Rosa californica—California rose briar

RUBIACEAE—MADDER FAMILY

- ¹ *Galium andrewsii* ssp. *andrewsii*—Andrews' bedstraw
¹ *Galium angustifolium* ssp. *angustifolium*—narrowleaf bedstraw
¹ *Galium aparine*—stickywilly

SALICACEAE—WILLOW FAMILY

- Populus fremontii*—Fremont cottonwood
Salix exigua—sandbar willow
Salix gooddingii—black willow
Salix laevigata—red willow
Salix lasiolepis—arroyo willow

SAURURACEAE—LIZARD'S-TAIL FAMILY

- Anemopsis californica*—yerba mansa

SCROPHULARIACEAE—FIGWORT FAMILY

- Scrophularia californica*—California figwort

SOLANACEAE—NIGHTSHADE FAMILY

- ¹ *Datura wrightii*—sacred thorn-apple
¹ *Nicotiana attenuata*—coyote tobacco
Solanum parishii—Parish's nightshade
Solanum xanti—chaparral nightshade

TAMARICACEAE—TAMARISK FAMILY

- * *Tamarix ramosissima*—tamarisk

APPENDIX E-1 (Continued)

URTICACEAE—NETTLE FAMILY

- ¹ *Hesperocnide tenella*—western stingingnettle
- ¹ *Parietaria hespera* var. *hespera*—rillita pellitory
- Urtica dioica* ssp. *holosericea*—stinging nettle

VIOLACEAE—VIOLET FAMILY

- Viola purpurea* ssp. *quercetorum*—goosefoot violet

VISCACEAE—MISTLETOE FAMILY

- Phoradendron californicum*—mesquite mistletoe

FERNS AND FERN ALLIES VASCULAR SPECIES

PTERIDACEAE—BRAKE FAMILY

- ¹ *Myriopteris clevelandii*—Cleveland's lip fern
- ¹ *Pellaea mucronata* var. *mucronata*—birdfoot cliffbrake
- Pentagramma rebmanii*—Rebman's silverback fern
- Pentagramma triangularis* ssp. *triangularis*—goldback fern

GYMNOSPERMS AND GNETOPHYTES

VASCULAR SPECIES

EPHEDRACEAE—EPHEDRA FAMILY

- Ephedra californica*—California joint fir

MONOCOTS

VASCULAR SPECIES

AGAVACEAE—AGAVE FAMILY

- ¹ *Hesperoyucca whipplei*—chaparral yucca
- Yucca schidigera*—Mojave yucca

CYPERACEAE—SEDGE FAMILY

- Carex praegracilis*—clustered field sedge
- ¹ *Eleocharis macrostachya*—pale spike rush
- Schoenoplectus acutus* var. *occidentalis*—tule

JUNCACEAE—RUSH FAMILY

- Juncus acutus*—spiny rush
- ¹ *Juncus balticus* ssp. *ater*—Baltic rush

APPENDIX E-1 (Continued)

- ¹ *Juncus bufonius*—toad rush
- ¹ *Juncus dubius*—questionable rush
- Juncus mexicanus*—Mexican rush

LILIACEAE—LILY FAMILY

- ¹ *Calochortus concolor*—goldenbowl mariposa lily

POACEAE—GRASS FAMILY

- * *Avena barbata*—slender oat
- * *Bromus diandrus*—ripgut brome
- * *Bromus hordeaceus*—soft brome
- * *Bromus madritensis* ssp. *rubens*—red brome
- * *Bromus tectorum*—cheatgrass
- Distichlis spicata*—salt grass
- ¹ *Elymus condensatus*—giant wild rye
- ¹ *Elymus elymoides* var. *brevifolius*—squirreltail
- Elymus glaucus* ssp. *glaucus*—blue wildrye
- ¹ *Elymus triticoides*—creeping rye grass
- ¹ *Festuca microstachys*—six-weeks fescue
- *¹ *Festuca myuros*—rat-tail fescue
- ¹ *Festuca octoflora*—sixweeks fescue
- *¹ *Festuca perennis*—perennial rye grass
- *¹ *Hordeum murinum* ssp. *glaucum*—smooth barley
- *¹ *Hordeum murinum* ssp. *leporinum*—hare barley
- *¹ *Hordeum vulgare*—common barley
- *¹ *Lamarckia aurea*—goldentop grass
- ¹ *Melica imperfecta*—smallflower melicgrass
- ¹ *Muhlenbergia rigens*—deer grass beds
- Poa secunda* ssp. *secunda*—Sandberg bluegrass
- * *Polypogon monspeliensis*—annual rabbitsfoot grass
- * *Schismus barbatus*—common Mediterranean grass
- Sporobolus airoides*—alkali sacaton
- Stipa cernua*—nodding needle grass
- Stipa coronata*—giant ricegrass
- Stipa parishii* var. *parishii*—Parish’s needlegrass
- Stipa speciosa*—desert needlegrass

THEMIDACEAE—BRODIAEA FAMILY

- Dichelostemma capitatum* ssp. *capitatum*—bluedicks

APPENDIX E-1 (Continued)

TYPHACEAE—CATTAIL FAMILY

Typha latifolia—broadleaf cattail

Typha sp.—cattail

* Non-native species

¹ Species only recorded in Shu'luuk report (AECOM 2012)

APPENDIX E-1 (Continued)

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APPENDIX E-2
Plant Compendium – Torrey Wind

APPENDIX E-2
Plant Compendium – Torrey Wind

EUDICOTS

VASCULAR SPECIES

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

AMARANTHACEAE—AMARANTH FAMILY

* *Amaranthus albus*—prostrate pigweed

ANACARDIACEAE—SUMAC OR CASHEW FAMILY

Malosma laurina—laurel sumac

Rhus aromatica var. *aromatica*—single-leaved skunkbrush

Rhus ovata—sugarbush

APIACEAE—CARROT FAMILY

* *Apium graveolens*—wild celery

Lomatium dasycarpum ssp. *dasycarpum*—woollyfruit desertparsley

Lomatium mohavense—Mojave desertparsley

APOCYNACEAE—DOGBANE FAMILY

Asclepias fascicularis—Mexican whorled milkweed

ASTERACEAE—SUNFLOWER FAMILY

Acourtia microcephala—sacapellote

Ambrosia acanthicarpa—flatspine bur ragweed

Ambrosia psilostachya—western ragweed

Anisocoma acaulis—scalebud

Artemisia douglasiana—Douglas' sagewort

Artemisia dracunculus—wild tarragon

Artemisia tridentata—big sagebrush

Baccharis pilularis—coyote brush

Baccharis salicifolia ssp. *salicifolia*—mulefat

Baccharis sergiloides—broom baccharis

Calycoseris parryi—yellow tackstem

Chaenactis fremontii—pincushion flower

Chaenactis glabriuscula var. *glabriuscula*—yellow pincushion

Cirsium occidentale—cobwebby thistle

Corethrogyne filaginifolia—common sandaster

Deinandra floribunda—Tecate tarplant

APPENDIX E-2 (Continued)

Ericameria brachylepis—chaparral goldenbush
Ericameria cuneata var. *spathulata*—cliff goldenbush
Ericameria linearifolia—narrowleaf goldenbush
Ericameria nauseosa—rubber rabbitbrush
Ericameria pinifolia—pinebush
Erigeron foliosus var. *foliosus*—leafy fleabane
Eriophyllum confertiflorum var. *confertiflorum*—golden-yarrow
Eriophyllum wallacei—woolly easterbonnets
Geraea viscida—sticky geraea
Gutierrezia californica—California match weed
Gutierrezia sarothrae—broom snake weed
Lasthenia gracilis—needle goldfields
Layia glandulosa—whitedaisy tidytips
Layia platyglossa—coastal tidytips
Leptosyne californica—California tickseed
Lessingia glandulifera—valley lessingia
Malacothrix californica—California desertdandelion
Malacothrix glabrata—smooth desertdandelion
* *Matricaria discoidea*—disc mayweed
Senecio californicus—California ragwort
Senecio flaccidus—threadleaf ragwort
Stephanomeria exigua—small wirelettuce
Stylocline gnaphaloides—mountain neststraw
Uropappus lindleyi—Lindley’s silverpuffs

BORAGINACEAE—BORAGE FAMILY

Amsinckia intermedia—common fiddleneck
Amsinckia menziesii—Menzies’ fiddleneck
Amsinckia tessellata—bristly fiddleneck
Cryptantha intermedia—Clearwater cryptantha
Cryptantha micrantha var. *lepida*—redroot cryptantha
Emmenanthe penduliflora var. *penduliflora*—whisperingbells
Eriodictyon crassifolium—thick leaf yerba santa
Eriodictyon trichocalyx var. *lanatum*—hairy yerba santa
Heliotropium curassavicum var. *oculatum*—seaside heliotrope
Nama demissa—Nama
Nemophila menziesii—baby blue eyes
Pectocarya penicillata—sleeping combseed
Pectocarya recurvata—curvenut combseed

APPENDIX E-2 (Continued)

Pectocarya setosa—moth combseed
Phacelia ramosissima var. *latifolia*—branching phacelia
Phacelia distans—distant phacelia
Phacelia imbricata var. *imbricata*—imbricate phacelia
Phacelia parryi—Parry’s phacelia
Phacelia tanacetifolia—lacy phacelia
Plagiobothrys arizonicus—Arizona popcornflower
Plagiobothrys collinus—Cooper’s popcornflower

BRASSICACEAE—MUSTARD FAMILY

Boechera californica—California rockcress
Boechera perennans—perennial rockcress
* *Capsella bursa-pastoris*—shepherd’s purse
Caulanthus simulans—Payson’s jewelflower
Descurainia pinnata ssp. *glabra*—western tansymustard
* *Descurainia sophia*—herb sophia
* *Hirschfeldia incana*—shortpod mustard
Lepidium virginicum ssp. *menziesii*—intermediate pepperweed
* *Sisymbrium altissimum*—tall tumbledustard
* *Sisymbrium irio*—London rocket
Streptanthus campestris—southern jewelflower

CACTACEAE—CACTUS FAMILY

Cylindropuntia californica var. *parkeri*—brownspined pricklypear
Cylindropuntia ganderi—Gander’s buckhorn cholla
Opuntia phaeacantha—tulip pricklypear

CAPRIFOLIACEAE—HONEYSUCKLE FAMILY

Lonicera subspicata var. *denudata*—Santa Barbara honeysuckle

CARYOPHYLLACEAE—PINK FAMILY

Minuartia douglasii—Douglas’ stitchwort

CHENOPODIACEAE—GOOSEFOOT FAMILY

Chenopodium californicum—California goosefoot
* *Chenopodium murale*—nettleleaf goosefoot

CONVOLVULACEAE—MORNING-GLORY FAMILY

Cuscuta californica—chaparral dodder

APPENDIX E-2 (Continued)

CRASSULACEAE—STONECROP FAMILY

Dudleya pulverulenta—chalk dudleya

CUCURBITACEAE—GOURD FAMILY

Cucurbita foetidissima—Missouri gourd

Cucurbita palmata—coyote gourd

Marah macrocarpa—Cucamonga manroot

ERICACEAE—HEATH FAMILY

Arctostaphylos glauca—bigberry manzanita

Arctostaphylos pungens—pointleaf manzanita

EUPHORBIACEAE—SPURGE FAMILY

Croton setiger—dove weed

Euphorbia albomarginata—whitemargin sandmat

* *Euphorbia maculata*—spotted sandmat

Euphorbia polycarpa—smallseed sandmat

FABACEAE—LEGUME FAMILY

Acmispon argophyllus var. *argophyllus*—silver bird's-foot trefoil

Acmispon glaber var. *brevialatus*—western bird's-foot trefoil

Acmispon heermannii—Heermann's bird's-foot trefoil

Acmispon strigosus—strigose bird's-foot trefoil

Astragalus douglasii var. *parishii*—Parish's milkvetch

Astragalus douglasii var. *perstrictus*—Jacumba milk-vetch

Lupinus bicolor—miniature lupine

Lupinus concinnus—bajada lupine

Lupinus excubitus—grape soda lupine

Lupinus succulentus—hollowleaf annual lupine

Lupinus truncatus—collared annual lupine

Trifolium willdenovii—tomcat clover

FAGACEAE—OAK FAMILY

Quercus ×*acutidens*—hybrid oak

Quercus agrifolia var. *oxyadenia*—coast live oak

Quercus chrysolepis—Canyon live oak

Quercus cornelius-mulleri—Muller oak

GARRYACEAE—SILK TASSEL FAMILY

Garrya veatchii—canyon silktassel

APPENDIX E-2 (Continued)

GENTIANACEAE—GENTIAN FAMILY

Frasera parryi—Coahuila frasera

GERANIACEAE—GERANIUM FAMILY

* *Erodium cicutarium*—redstem stork's bill

GROSSULARIACEAE—GOOSEBERRY FAMILY

Ribes quercetorum—oak gooseberry

LAMIACEAE—MINT FAMILY

Salvia clevelandii—fragrant sage

Salvia columbariae—chia

Trichostema lanatum—woolly bluecurls

LOASACEAE—LOASA FAMILY

Mentzelia veatchiana—Veatch's blazingstar

MONTIACEAE—MONTIA FAMILY

Calyptridium monandrum—common pussypaws

MYRSINACEAE—MYRSINE FAMILY

* *Lysimachia arvensis*—scarlet pimpernel

NYCTAGINACEAE—FOUR O'CLOCK FAMILY

Boerhavia triquetra var. *intermedia*—slender spiderling

Mirabilis multiflora var. *pubescens*—Colorado four o'clock

Mirabilis multiflora—Colorado four o'clock

ONAGRACEAE—EVENING PRIMROSE FAMILY

Camissoniopsis confusa—San Bernardino suncup

Clarkia purpurea—winecup clarkia

Eulobus californicus—California suncup

Oenothera californica ssp. *avita*—California evening primrose

OROBANCHACEAE—BROOM-RAPE FAMILY

Castilleja affinis—coast Indian paintbrush

Castilleja foliolosa—Texas Indian paintbrush

Castilleja subinclusa—longleaf Indian paintbrush

Cordylanthus rigidus—stiffbranch bird's beak

APPENDIX E-2 (Continued)

PAEONIACEAE—PEONY FAMILY

Paeonia californica—California peony

PAPAVERACEAE—POPPY FAMILY

Argemone munita—flatbud pricklypoppy

Dendromecon rigida—bush poppy

Eschscholzia californica—California poppy

PHRYMACEAE—LOPSEED FAMILY

Diplacus aurantiacus—bush monkeyflower

Erythranthe guttata—common monkey flower

Mimetanthe pilosa—false monkeyflower

PLANTAGINACEAE—PLANTAIN FAMILY

Antirrhinum nuttallianum—violet snapdragon

Collinsia concolor—Chinese houses

Penstemon centranthifolius—scarlet bugler

Penstemon clevelandii—Cleveland's beardtongue

Penstemon spectabilis—showy penstemon

* *Veronica anagallis-aquatica*—water speedwell

POLEMONIACEAE—PHLOX FAMILY

Eriastrum densifolium ssp. *elongatum*—giant woollystar

Eriastrum eremicum ssp. *eremicum*—desert woollystar

Eriastrum sapphirinum ssp. *sapphirinum*—sapphire woollystar

Gilia capitata ssp. *abrotanifolia*—bluehead gilia

Gilia capitata—bluehead gilia

Leptosiphon floribundus—many-flower linanthus

Leptosiphon lemmonii—Lemmon's linanthus

Leptosiphon parviflorus—variable linanthus

Linanthus bellus—desert beauty

Linanthus dianthiflorus—fringed linanthus

Loeseliastrum matthewsii—desert calico

Loeseliastrum schottii—Schott's calico

Phlox austromontana—mountain phlox

POLYGONACEAE—BUCKWHEAT FAMILY

Chorizanthe fimbriata var. *laciniata*—fringed spineflower

Chorizanthe fimbriata—fringed spineflower

Eriogonum davidsonii—Davidson's buckwheat

APPENDIX E-2 (Continued)

Eriogonum elongatum var. *elongatum*—longstem buckwheat
Eriogonum fasciculatum var. *polifolium*—California buckwheat
Eriogonum thurberi—Thurber's buckwheat
Eriogonum wrightii var. *membranaceum*—bastardsage

RANUNCULACEAE—BUTTERCUP FAMILY

Clematis ligusticifolia—western white clematis
Clematis pauciflora—ropevine clematis
Delphinium parishii ssp. *subglobosum*—Colorado Desert larkspur

RHAMNACEAE—BUCKTHORN FAMILY

Ceanothus leucodermis—chaparral white thorn
Ceanothus perplexans—desert ceanothus
Frangula californica—California coffee berry
Rhamnus ilicifolia—hollyleaf redberry

ROSACEAE—ROSE FAMILY

Adenostoma fasciculatum—chamise
Adenostoma sparsifolium—redshank
Cercocarpus betuloides—birch leaf mountain mahogany
Cercocarpus minutiflorus—smooth mountain mahogany
Prunus fremontii—desert apricot
Prunus ilicifolia—holly leaf cherry

RUBIACEAE—MADDER FAMILY

Galium andrewsii ssp. *andrewsii*—Andrews' bedstraw
Galium angustifolium—narrowleaf bedstraw

SALICACEAE—WILLOW FAMILY

Salix laevigata—red willow
Salix lasiolepis—arroyo willow

SCROPHULARIACEAE—FIGWORT FAMILY

Scrophularia californica—California figwort

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii—sacred thorn-apple
Nicotiana attenuata—coyote tobacco
Nicotiana quadrivalvis—Indian tobacco
Solanum douglasii—greenspot nightshade
Solanum parishii—Parish's nightshade

APPENDIX E-2 (Continued)

Solanum xanti—chaparral nightshade

TAMARICACEAE—TAMARISK FAMILY

* *Tamarix ramosissima*—salt cedar

URTICACEAE—NETTLE FAMILY

Urtica dioica ssp. *holosericea*—stinging nettle

VISCACEAE—MISTLETOE FAMILY

Phoradendron bolleanum—Bollean mistletoe

Phoradendron californicum—mesquite mistletoe

FERNS AND FERN ALLIES

VASCULAR SPECIES

PTERIDACEAE—BRAKE FAMILY

Pellaea mucronata—birdfoot cliffbrake

GYMNOSPERMS AND GNETOPHYTES

VASCULAR SPECIES

CUPRESSACEAE—CYPRESS FAMILY

Juniperus californica—California juniper

EPHEDRACEAE—EPHEDRA FAMILY

Ephedra californica—California joint fir

PINACEAE—PINE FAMILY

Pinus monophylla—singleleaf pinyons

MONOCOTS

VASCULAR SPECIES

AGAVACEAE—AGAVE FAMILY

Hesperoyucca whipplei—chaparral yucca

Yucca schidigera—Mojave yucca

CYPERACEAE—SEDGE FAMILY

Carex praegracilis—clustered field sedge

Carex spissa—San Diego sedge

APPENDIX E-2 (Continued)

JUNCACEAE—Rush Family

- Juncus bufonius*—toad rush
- Juncus mexicanus*—Mexican rush

LILIACEAE—LILY FAMILY

- Calochortus concolor*—goldenbowl mariposa lily
- Calochortus splendens*—splendid mariposa lily

POACEAE—GRASS FAMILY

- * *Avena barbata*—slender oat
- Bothriochloa barbinodis*—cane bluestem
- * *Bromus diandrus*—ripgut brome
- * *Bromus madritensis* ssp. *madritensis*—compact brome
- * *Bromus madritensis* ssp. *rubens*—red brome
- * *Bromus tectorum*—cheatgrass
- Distichlis spicata*—salt grass
- Elymus elymoides* var. *brevifolius*—squirreltail
- Elymus glaucus*—blue wild rye
- * *Festuca myuros*—rat-tail fescue
- * *Hordeum murinum* ssp. *glaucum*—smooth barley
- * *Hordeum murinum*—mouse barley
- Melica imperfecta*—smallflower melicgrass
- Muhlenbergia rigens*—deer grass beds
- * *Poa bulbosa* ssp. *bulbosa*—bulbous bluegrass
- * *Polypogon monspeliensis*—annual rabbitsfoot grass
- * *Schismus barbatus*—common Mediterranean grass
- Sporobolus airoides*—alkali sacaton
- Stipa lepida*—foothill needle grass
- Stipa pulchra*—purple needle grass
- Stipa speciosa*—desert needlegrass
- Stipa cernua*—nodding needlegrass

SAURURACEAE-LIZARD TAIL FAMILY

- Anemopsis californica*- yerba mansa

THEMIDACEAE—BRODIAEA FAMILY

- Dichelostemma capitatum* ssp. *capitatum*—bluedicks

- * Non-native species

APPENDIX E-2 (Continued)

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APPENDIX F-1
Wildlife Species Observed

APPENDIX F-**1**
Wildlife Species Observed

APPENDIX F-1

Wildlife Species Observed

AMPHIBIAN

FROGS

HYLIDAE—TREEFROGS

¹ *Pseudacris regilla*—Pacific treefrog

TOADS

BUFONIDAE—TRUE TOADS

¹ *Anaxyrus boreas*—western toad

PELOBATIDAE—SPADEFEETS

¹ *Spea hammondi*—western spadefoot

BIRD

BLACKBIRDS, ORIOLES AND ALLIES

ICTERIDAE—BLACKBIRDS

Agelaius phoeniceus—red-winged blackbird

Euphagus cyanocephalus—Brewer's blackbird

Icterus parisorum—Scott's oriole

Sturnella neglecta—western meadowlark

* *Molothrus ater*—brown-headed cowbird

¹ *Agelaius tricolor*—tricolored blackbird

¹ *Icterus bullockii*—Bullock's oriole

¹ *Icterus cucullatus*—hooded oriole

¹ *Quiscalus mexicanus*—great-tailed grackle

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS AND BUSHTITS

Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS AND ALLIES

CARDINALIDAE—CARDINALS AND ALLIES

Pheucticus melanocephalus—black-headed grosbeak

Piranga ludoviciana—western tanager

¹ *Passerina amoena*—lazuli bunting

APPENDIX F-1 (Continued)

¹ *Passerina caerulea*—blue grosbeak

FALCONS

FALCONIDAE—CARACARAS AND FALCONS

Falco columbarius—merlin

Falco mexicanus—prairie falcon

Falco peregrinus anatum—American peregrine falcon

Falco sparverius—American kestrel

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous cassinii—Cassin's finch

Haemorhous mexicanus—house finch

Spinus lawrencei—Lawrence's goldfinch

Spinus pinus—pine siskin

Spinus psaltria—lesser goldfinch

No scientific name—finch sp.

¹ *Spinus tristis*—American goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Myiarchus cinerascens—ash-throated flycatcher

Sayornis nigricans—black phoebe

Sayornis saya—Say's phoebe

Tyrannus verticalis—western kingbird

Tyrannus vociferans—Cassin's kingbird

Tyrannus sp.—no common name

¹ *Contopus cooperi*—olive-sided flycatcher

¹ *Contopus sordidulus*—western wood-pewee

¹ *Empidonax difficilis*—Pacific-slope flycatcher

¹ *Empidonax hammondii*—Hammond's flycatcher

¹ *Empidonax traillii*—willow flycatcher

GOATSUCKERS

CAPRIMULGIDAE—GOATSUCKERS

Chordeiles acutipennis—lesser nighthawk

Chordeiles minor—common nighthawk

¹ *Phalaenoptilus nuttallii*—common poorwill

APPENDIX F-1 (Continued)

GREBES

PODICIPEDIDAE—GREBES

- ¹ *Podiceps nigricollis*—eared grebe

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

- Accipiter cooperii*—Cooper’s hawk
Accipiter striatus—sharp-shinned hawk
Aquila chrysaetos—golden eagle
Buteo jamaicensis—red-tailed hawk
Buteo lineatus—red-shouldered hawk
Buteo regalis—ferruginous hawk
Circus hudsonius—northern harrier
Accipiter sp.—no common name
Parabuteo unicinctus—Harris’s hawk
¹ *Buteo platypterus*—broad-winged hawk
¹ *Buteo swainsoni*—Swainson’s hawk
¹ *Elanus leucurus*—white-tailed kite
¹ *Pandion haliaetus*—osprey

HERONS AND BITTERNS

ARDEIDAE—HERONS, BITTERNS, AND ALLIES

- Ardea alba*—great egret
¹ *Ardea herodias*—great blue heron

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

- Calypte anna*—Anna’s hummingbird
Calypte costae—Costa’s hummingbird
Selasphorus rufus—rufous hummingbird
Selasphorus sasin—Allen’s hummingbird
No scientific name—hummingbird sp.
¹ *Archilochus alexandri*—black-chinned hummingbird

JAYS, MAGPIES AND CROWS

CORVIDAE—CROWS AND JAYS

- Aphelocoma californica*—California scrub-jay

APPENDIX F-1 (Continued)

Corvus brachyrhynchos—American crow

Corvus corax—common raven

Cyanocitta stelleri—Steller's jay

Pica nuttalli—Yellow-billed magpie

¹ *Gymnorhinus cyanocephalus*—pinyon jay

KINGFISHERS

ALCEDINIDAE—KINGFISHERS

¹ *Megaceryle alcyon*—belted kingfisher

KINGLETS

REGULIDAE—KINGLETS

Regulus calendula—ruby-crowned kinglet

LARKS

ALAUDIDAE—LARKS

Eremophila alpestris—horned lark

MOCKINGBIRDS AND THRASHERS

MIMIDAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—northern mockingbird

Oreoscoptes montanus—sage thrasher

Toxostoma redivivum—California thrasher

NEW WORLD QUAIL

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

Callipepla gambelii—Gambel's quail

¹ *Oreortyx pictus*—mountain quail

NEW WORLD VULTURES

CATHARTIDAE—NEW WORLD VULTURES

Cathartes aura—turkey vulture

NUTHATCHES

APPENDIX F-1 (Continued)

SITTIDAE—NUTHATCHES

Sitta carolinensis—white-breasted nuthatch

OLD WORLD SPARROWS

PASSERIDAE—OLD WORLD SPARROWS

* *Passer domesticus*—house sparrow

OLD WORLD WARBLERS AND GNATCATCHERS

SYLVIIDAE—SYLVIID WARBLERS

Polioptila caerulea—blue-gray gnatcatcher

OWLS

TYTONIDAE—BARN OWLS

¹ *Tyto alba*—barn owl

STRIGIDAE—TYPICAL OWLS

Bubo virginianus—great horned owl

¹ *Asio otus*—long-eared owl

¹ *Megascops kennicottii*—western screech-owl

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

Zenaida macroura—mourning dove

* *Columba livia*—rock pigeon (rock dove)

*¹ *Streptopelia decaocto*—Eurasian collared-dove

¹ *Zenaida asiatica*—white-winged dove

QUAILS, PHEASANTS AND RELATIVES

PHASIANIDAE—PARTRIDGES, GROUSE, TURKEYS, AND OLD WORLD QUAIL

¹ *Meleagris gallopavo*—wild turkey

RAILS, GALLINULES AND COOTS

RALLIDAE—RAILS, GALLINULES, AND COOTS

¹ *Fulica americana*—American coot

¹ *Porzana carolina*—sora

ROADRUNNERS AND CUCKOOS

APPENDIX F-1 (Continued)

CUCULIDAE—CUCKOOS, ROADRUNNERS, AND ANIS

Geococcyx californianus—greater roadrunner

SHOREBIRDS

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus—killdeer

SCOLOPACIDAE—SANDPIPERS, PHALAROPES, AND ALLIES

¹ *Numenius phaeopus*—whimbrel

SHRIKES

LANIIDAE—SHRIKES

Lanius ludovicianus—loggerhead shrike

SILKY FLYCATCHERS

PTILOGONATIDAE—SILKY-FLYCATCHERS

Phainopepla nitens—phainopepla

STARLINGS AND ALLIES

STURNIDAE—STARLINGS

* *Sturnus vulgaris*—European starling

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Hirundo rustica—barn swallow

Petrochelidon pyrrhonota—cliff swallow

Stelgidopteryx serripennis—northern rough-winged swallow

No scientific name—swallow sp.

¹ *Riparia riparia*—bank swallow

¹ *Tachycineta bicolor*—tree swallow

¹ *Tachycineta thalassina*—violet-green swallow

SWIFTS

APODIDAE—SWIFTS

Aeronautes saxatalis—white-throated swift

¹ *Chaetura vauxi*—Vaux's swift

¹ *Cypseloides niger*—black swift

TERNs AND GULLS

LARIDAE—GULLS, TERNS, AND SKIMMERS

Larus delawarensis—ring-billed gull

¹ *Larus californicus*—California gull

THRUSHES

TURDIDAE—THRUSHES

Catharus ustulatus—Swainson's thrush

Sialia mexicana—western bluebird

Turdus migratorius—American robin

¹ *Catharus guttatus*—hermit thrush

TITMICE

PARIDAE—CHICKADEES AND TITMICE

Baeolophus inornatus—oak titmouse

VERDIN

REMIZIDAE—PENDULINE TITS AND VERDINS

¹ *Auriparus flaviceps*—verdin

VIREOS

VIREONIDAE—VIREOS

Vireo huttoni—Hutton's vireo

¹ *Vireo flavifrons*—yellow-throated vireo

¹ *Vireo gilvus*—warbling vireo

WAGTAILS AND PIPITS

MOTACILLIDAE—WAGTAILS AND PIPITS

¹ *Anthus rubescens*—American pipit

WATERFOWL

ANATIDAE—DUCKS, GEESE, AND SWANS

Anas platyrhynchos—mallard

Melanitta perspicillata—surf scoter

¹ *Aythya collaris*—ring-necked duck

¹ *Branta bernicla*—brant

APPENDIX F-1 (Continued)

- ¹ *Mareca americana*—American wigeon
- ¹ *Mareca strepera*—gadwall
- ¹ *Spatula clypeata*—northern shoveler

WAXWINGS

BOMBYCILLIDAE—WAXWINGS

- ¹ *Bombycilla cedrorum*—cedar waxwing

WOOD WARBLERS AND ALLIES

PARULIDAE—WOOD-WARBLERS

- Cardellina pusilla*—Wilson’s warbler
- Geothlypis tolmiei*—MacGillivray’s warbler
- Geothlypis trichas*—common yellowthroat
- Oreothlypis celata*—orange-crowned warbler
- Setophaga coronata*—yellow-rumped warbler
- Setophaga nigrescens*—black-throated gray warbler
- Setophaga occidentalis*—hermit warbler
- Setophaga townsendi*—Townsend’s warbler
- No scientific name—warbler sp.
- ¹ *Oreothlypis ruficapilla*—Nashville warbler
- ¹ *Setophaga palmarum*—palm warbler
- ¹ *Setophaga petechia*—yellow warbler

WOODPECKERS

PICIDAE—WOODPECKERS AND ALLIES

- Colaptes auratus*—northern flicker
- Melanerpes formicivorus*—acorn woodpecker
- Dryobates nuttallii*—Nuttall’s woodpecker
- Dryobates scalaris*—ladder-backed woodpecker
- No scientific name—woodpecker sp.
- ¹ *Melanerpes lewis*—Lewis’s woodpecker
- ¹ *Dryobates villosus*—hairy woodpecker
- ¹ *Sphyrapicus nuchalis*—red-naped sapsucker

WRENS

TROGLODYTIDAE—WRENS

- Campylorhynchus brunneicapillus*—cactus wren

APPENDIX F-1 (Continued)

Catherpes mexicanus—canyon wren
Salpinctes obsoletus—rock wren
Thryomanes bewickii—Bewick’s wren
Troglodytes aedon—house wren
No scientific name—wren sp.
1 *Cistothorus palustris*—marsh wren

WRENTITS

TIMALIIDAE—BABBLERS

Chamaea fasciata—wrentit

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

Amphispiza bilineata—black-throated sparrow
Artemisiospiza belli—Bell’s sparrow
Artemisiospiza nevadensis—sagebrush sparrow
Junco hyemalis—dark-eyed junco
Melospiza melodia—song sparrow
Melozona crissalis—California towhee
Pipilo maculatus—spotted towhee
Spizella atrogularis—black-chinned sparrow
Spizella passerina—chipping sparrow
Zonotrichia leucophrys—white-crowned sparrow
1 *Aimophila ruficeps*—rufous-crowned sparrow
1 *Chondestes grammacus*—lark sparrow
1 *Melospiza lincolni*—Lincoln’s sparrow
1 *Passerculus sandwichensis*—savannah sparrow
1 *Passerella iliaca*—fox sparrow
1 *Pipilo chlorurus*—green-tailed towhee
1 *Pooecetes gramineus*—vesper sparrow
1 *Spizella breweri*—Brewer’s sparrow
1 *Zonotrichia atricapilla*—golden-crowned sparrow

INVERTEBRATE

BUTTERFLIES

LYCAENIDAE—BLUES, HAIRSTREAKS, AND COPPERS

- Atlides halesus*—great purple hairstreak
Brephidium exile—western pygmy-blue
Callophrys augustinus—brown elfin
Callophrys dumetorum—bramble hairstreak
~~*Celistrina*~~*Celastrina ladon [argiolus] echo*—echo blue
Euphilotes battoides bernardino—Bernardino square-spotted blue
Everes amyntula—western tailed-blue
Glaucopsyche lygdamus australis—southern blue
Hemiargus ceraunus gyas—Edward’s blue
Icaricia acmon acmon—Acmon blue
Leptotes marina—marine blue
Lycaeides melissa—Melissa blue
Lycaena gorgon—Gorgon copper
Philotes sonorensis—Sonoran blue
Satyrium saepium—hedgerow hairstreak
Strymon melinus—gray hairstreak
¹ *Glaucopsyche piasus*—Arrowhead blue
¹ *Lycaena xanthoides*—great copper
¹ *Plebejus lupini*—lupine blue
¹ *Satyrium tetra*—mountain mahogany hairstreak

NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

- Adelpha bredowii*—California sister
Chlosyne californica—California patch
Chlosyne gabbii—Gabb’s checkerspot
Coenonympha tullia californica—common californica ringlet
Danaus gilippus—queen
Euphydryas chalcedona chalcedona—Chalcedon variable checkerspot
Euphydryas chalcedona—variable checkerspot
Junonia coenia—common buckeye
Limenitis lorquini—Lorquin’s admiral
Nymphalis antiopa—mourning cloak
Nymphalis californica—California tortoiseshell
Phyciodes mylitta—Mylitta crescent
Vanessa annabella—west coast lady
Vanessa atalanta—red admiral

APPENDIX F-1 (Continued)

- Vanessa cardui*—painted lady
1 *Agraulis vanillae*—Gulf fritillary
1 *Euphydryas editha quino*—quino checkerspot butterfly
1 *Euptoieta claudia*—variegated fritillary
1 *Vanessa virginiensis*—American lady

RIODINIDAE—METALMARKS

Apodemia mormo virgulti—Behr’s metalmark

HESPERIIDAE—SKIPPERS

- Copaeodes aurantiacus*—orange skipperling
Erynnis afranius—Afranius duskywing
Erynnis brizo—sleepy duskywing
Erynnis funeralis—funereal duskywing
Erynnis propertius—Propertius duskywing
Hylephila phyleus—fiery skipper
Pholisora catullus—common sootywing
1 *Atalopedes campestris*—sachem
1 *Erynnis pacuvius*—Pacuvius duskywing
1 *Erynnis tristis*—mournful duskywing
1 *Heliopetes ericetorum*—northern white-skipper
1 *Hesperia juba*—Juba skipper
1 *Ochlodes sylvanoides*—woodland skipper
1 *Pyrgus scriptura*—small checkered-skipper

PAPILIONIDAE—SWALLOWTAILS

- Papilio eurymedon*—pale swallowtail
Papilio rutulus—western tiger swallowtail
Papilio zelicaon—anise swallowtail
1 *Papilio polyxenes coloro*—desert black swallowtail

PIERIDAE—WHITES AND SULFURS

- Anthocharis cethura*—desert orangetip
Anthocharis sara sara—Pacific sara orangetip
Colias eurytheme—orange sulphur
Colias harfordii—Harford’s sulphur
Euchloe hyantis lotta—desert pearly marble
Phoebis sennae—cloudless sulphur
Pieris rapae—cabbage white
Pontia protodice—checkered white
Pontia sisymbrii—spring white

APPENDIX F-1 (Continued)

- ¹ *Anthocharis lanceolata*—gray marble
- ¹ *Colias eurydice*—California dogface
- ¹ *Eurema nicippe*—sleepy orange
- ¹ *Nathalis iole*—dainty sulphur
- ¹ *Pontia beckerii*—Becker's white

MOTHS

SPHINGIDAE—HAWK MOTHS

- ¹ *Hyles lineata*—white-lined sphinx
- ¹ *Hemaris diffinis*—snowberry clearwing
- ¹ *Euproserpinus phaeton*—~~Phaeton primrose euterpe~~—Kern primrose sphinx moth

NOCTUIDAE—OWLET MOTHS

- ¹ *Alypia ridingsii*—mountain forester
- ¹ *Heliothis belladonna*—no common name

EREBIDAE—MOTHS

- ¹ *Drasteria tejonica*—no common name
- ¹ *Drasteria edwardsii*—no common name
- ¹ *Drasteria biformata*—no common name
- ¹ *Litocala sexsignata*—litocala moth
- ¹ *Leptarctia californiae*—no common name

ADELINAE—FAIRY MOTHS

- ¹ *Adela* sp.—no common name

MAMMAL

BATS

VESPERTILIONIDAE—EVENING BATS

- Antrozous pallidus*—pallid bat
- Corynorhinus townsendii*—Townsend's big-eared bat
- Eptesicus fuscus*—big brown bat
- Lasiurus cinereus*—hoary bat
- Myotis californicus*—Californian myotis
- Myotis ciliolabrum*—western small-footed myotis
- Myotis yumanensis*—Yuma myotis
- ¹ *Myotis* sp.—myotis
- ¹ *Myotis evotis*—long-eared myotis
- Myotis thysanodes*—fringed myotis
- Parastrellus hesperus*—canyon bat

APPENDIX F-1 (Continued)

Lasiurus xanthinus—western yellow bat

MOLOSSIDAE—FREE-TAILED BATS

Eumops perotis californicus—western mastiff bat

Nyctinomops femorosaccus—pocketed free-tailed bat

Nyctinomops macrotis—big free-tailed bat

Tadarida basiliensis—Brazilian free-tailed bat

CANIDS

CANIDAE—WOLVES AND FOXES

Canis latrans—coyote

¹ *Urocyon cinereoargenteus*—gray fox

CATS

FELIDAE—CATS

Lynx rufus—bobcat

¹ *Puma concolor*—cougar

DOMESTIC

CANIDAE—WOLVES AND FOXES

^{*1} *Canis lupus familiaris*—domestic dog

HARES AND RABBITS

LEPORIDAE—HARES AND RABBITS

Lepus californicus—black-tailed jackrabbit

Sylvilagus audubonii—desert cottontail

Sylvilagus bachmani—brush rabbit

¹ *Lepus californicus bennettii*—San Diego black-tailed jackrabbit

KANGAROO RATS

HETEROMYIDAE—POCKET MICE AND KANGAROO RATS

¹ *Dipodomys* sp.—kangaroo rat

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

Thomomys bottae—Botta's pocket gopher

APPENDIX F-1 (Continued)

SQUIRRELS

SCIURIDAE—SQUIRRELS

- Spermophilus (Otospermophilus) beecheyi*—California ground squirrel
Tamias merriami—Merriam's chipmunk

UNGULATES

CERVIDAE—DEERS

- Odocoileus hemionus*—mule deer

RATS, MICE, AND VOLES

CRICETIDAE—RATS, MICE, AND VOLES

- ¹ *Neotoma* sp.—woodrat
¹ *Peromyscus* sp.—mouse

REPTILE

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

- Phrynosoma blainvillii*—Blainville's horned lizard
Sceloporus occidentalis—western fence lizard
Sceloporus orcutti—granite spiny lizard
Uta stansburiana—common side-blotched lizard

SCINCIDAE—SKINKS

- Plestiodon skiltonianus*—western skink

TEIIDAE—WHIPTAIL LIZARDS

- Aspidoscelis tigris stejnegeri*—San Diegan tiger whiptail
Aspidoscelis tigris—tiger whiptail

XANTUSIIDAE—NIGHT LIZARDS

- ¹ *Xantusia henshawi*—granite night lizard

SNAKES

COLUBRIDAE—COLUBRID SNAKES

- Pituophis catenifer*—gophersnake
Rhinocheilus lecontei—long-nosed snake
¹ *Diadophis punctatus*—ring-necked snake

APPENDIX F-1 (Continued)

- ¹ *Lampropeltis californiae*—California kingsnake
- ¹ *Salvadora hexalepis*—western patch-nosed snake

BOIDAE—BOAS

Lichanura trivirgata—rosy boa

VIPERIDAE—VIPERS

- Crotalus oreganus*—western rattlesnake
- ¹ *Crotalus mitchellii*—speckled rattlesnake

- * Non-native species
- ¹ Only recorded in Shu’luuk report (AECOM 2012)

INTENTIONALLY LEFT BLANK

APPENDIX F-2
Wildlife Compendium – Torrey Wind

APPENDIX F-2
Wildlife Compendium – Torrey Wind

BIRDS

BLACKBIRDS, ORIOLES, AND ALLIES

ICTERIDAE—BLACKBIRDS

Euphagus cyanocephalus—Brewer’s blackbird

Icterus bullockii—Bullock’s oriole

Icterus cucullatus—hooded oriole

Icterus parisorum—Scott’s oriole

Sturnella neglecta—western meadowlark

* *Molothrus ater*—brown-headed cowbird

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS AND BUSHTITS

Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS, AND ALLIES

CARDINALIDAE—CARDINALS and ALLIES

Pheucticus melanocephalus—black-headed grosbeak

Piranga ludoviciana—western tanager

FALCONS

FALCONIDAE—CARACARAS AND FALCONS

Falco columbarius—merlin

Falco sparverius—American kestrel

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch

Spinus lawrencei—Lawrence’s goldfinch

Spinus psaltria—lesser goldfinch

Spinus tristis—American goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Contopus sordidulus—western wood-pewee

Empidonax difficilis—Pacific-slope flycatcher

Myiarchus cinerascens—ash-throated flycatcher

Sayornis nigricans—black phoebe

Sayornis saya—Say’s phoebe

APPENDIX F-2 (Continued)

Tyrannus verticalis—western kingbird
Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

Accipiter cooperii—Cooper's hawk
Aquila chrysaetos—golden eagle
Buteo jamaicensis—red-tailed hawk
Buteo lineatus—red-shouldered hawk
Circus hudsonius—northern harrier

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Archilochus alexandri—black-chinned hummingbird
Calypte anna—Anna's hummingbird
Calypte costae—Costa's hummingbird
Selasphorus rufus—rufous hummingbird
Selasphorus sp.—Allen's/rufous hummingbird

JAYS, MAGPIES, AND CROWS

CORVIDAE—CROWS and JAYS

Apelocoma californica—California scrub-jay
Corvus brachyrhynchos—American crow
Corvus corax—common raven
Cyanocitta stelleri—Steller's jay

LARKS

ALAUDIDAE—LARKS

Eremophila alpestris actia—California horned lark

MOCKINGBIRDS AND THRASHERS

MIMIDAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—northern mockingbird
Oreoscoptes montanus—sage thrasher
Toxostoma redivivum—California thrasher

NEW WORLD QUAIL

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

APPENDIX F-2 (Continued)

NEW WORLD VULTURES

CATHARTIDAE—CARDINALS AND ALLIES

Cathartes aura—turkey vulture

OLD WORLD WARBLERS AND GNATCATCHERS

SYLVIIDAE—SYLVIID WARBLERS

Polioptila caerulea—blue-gray gnatcatcher

OWLS

TYTONIDAE—BARN OWLS

Tyto alba—barn owl

STRIGIDAE—TYPICAL OWLS

Bubo virginianus—great horned owl

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

Zenaida macroura—mourning dove

* *Streptopelia decaocto*—Eurasian collared-dove

QUAILS, PHEASANTS, AND RELATIVES

PHASIANIDAE—PARTRIDGES, GROUSE, TURKEYS, AND OLD WORLD QUAIL

Meleagris gallopavo—wild turkey

ROADRUNNERS AND CUCKOOS

CUCULIDAE—CUCKOOS, ROADRUNNERS, AND ANIS

Geococcyx californianus—greater roadrunner

SHRIKES

LANIIDAE—SHRIKES

Lanius ludovicianus—loggerhead shrike

SILKY FLYCATCHERS

PTILOGONATIDAE—SILKY-FLYCATCHERS

Phainopepla nitens—phainopepla

APPENDIX F-2 (Continued)

STARLINGS AND ALLIES

STURNIDAE—STARLINGS

- * *Sturnus vulgaris*—European starling

SWALLOWS

HIRUNDINIDAE—SWALLOWS

- Petrochelidon pyrrhonota*—cliff swallow
Stelgidopteryx serripennis—northern rough-winged swallow

SWIFTS

APODIDAE—SWIFTS

- Aeronautes saxatalis*—white-throated swift

THRUSHES

TURDIDAE—THRUSHES

- Sialia mexicana*—western bluebird

TITMICE

PARIDAE—CHICKADEES AND TITMICE

- Baeolophus inornatus*—oak titmouse

VIREOS

VIREONIDAE—VIREOS

- Vireo gilvus*—warbling vireo

WOOD WARBLERS AND ALLIES

PARULIDAE—WOOD-WARBLERS

- Cardellina pusilla*—Wilson's warbler
Oreothlypis celata—orange-crowned warbler
Setophaga coronata—yellow-rumped warbler
Setophaga occidentalis—hermit warbler
Setophaga petechia—yellow warbler
Setophaga townsendi—Townsend's warbler

WOODPECKERS

PICIDAE—WOODPECKERS AND ALLIES

- Colaptes auratus*—northern flicker
Melanerpes formicivorus—acorn woodpecker
Picoides nuttallii—Nuttall's woodpecker
Picoides scalaris—ladder-backed woodpecker

APPENDIX F-2 (Continued)

WRENS

TROGLODYTIDAE—WRENS

- Campylorhynchus brunneicapillus*—cactus wren
- Salpinctes obsoletus*—rock wren
- Thryomanes bewickii*—Bewick's wren
- Troglodytes aedon*—house wren

WRENTITS

TIMALIIDAE—BABBLERS

- Chamaea fasciata*—wren tit

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

- Aimophila ruficeps canescens*—Southern California rufous-crowned sparrow
- Aimophila ruficeps*—rufous-crowned sparrow
- Amphispiza bilineata*—black-throated sparrow
- Artemisospiza nevadensis*—sagebrush sparrow
- Junco hyemalis*—dark-eyed junco
- Melospiza melodia*—song sparrow
- Melozona crissalis*—California towhee
- Pipilo maculatus*—spotted towhee
- Spizella atrogularis*—black-chinned sparrow
- Spizella breweri*—Brewer's sparrow
- Spizella passerina*—chipping sparrow
- Zonotrichia leucophrys*—white-crowned sparrow

INVERTEBRATES

BUTTERFLIES

LYCAENIDAE—BLUES, HAIRSTREAKS, AND COPPERS

- Callophrys augustinus*—brown elfin
- Callophrys dumetorum*—bramble hairstreak
- Glaucopsyche lygdamus australis*—southern blue
- Icaricia acmon acmon*—Acmon blue
- Philotes sonorensis*—Sonoran blue
- Strymon melinus*—gray hairstreak
- Blue sp.

NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

- Adelpha bredowii*—California sister
- Chlosyne californica*—California patch
- Chlosyne gabbii*—Gabb's checkerspot

APPENDIX F-2 (Continued)

Danaus gilippus—queen
Limenitis lorquini—Lorquin’s admiral
Nymphalis californica—California tortoiseshell
Vanessa annabella—west coast lady
Vanessa cardui—painted lady
Vanessa sp.—lady

RIODINIDAE—METALMARKS

Apodemia mormo virgulti—Behr’s metalmark

HESPERIIDAE—SKIPPERS

Erynnis brizo—sleepy duskywing
Erynnis funeralis—funereal duskywing
Erynnis propertius—Propertius duskywing
Erynnis sp.—duskywing
Hylephila phyleus—fiery skipper

PAPILIONIDAE—SWALLOWTAILS

Papilio eurymedon—pale swallowtail
Papilio rutulus—western tiger swallowtail

PIERIDAE—WHITES AND SULFURS

Anthocharis cethura—desert orangetip
Anthocharis sara sara—Pacific sara orangetip
Colias eurydice—California dogface
Colias eurytheme—orange sulphur
Euchloe hyantis lotta—desert pearly marble
Pontia protodice—checkered white
Pontia sisymbrii—spring white
Sulphur sp.
White sp.

ANTS

FORMICIDAE—ANTS

Harvester ant sp.

MAMMALS

BATS

MOLOSSIDAE—FREE-TAILED BATS

Eumops perotis californicus—western mastiff bat
Nyctinomops femorosaccus—pocketed free-tailed bat
Nyctinomops macrotis—big free-tailed bat
Tadarida brasiliensis—Brazilian free-tailed bat

APPENDIX F-2 (Continued)

VESPERTILIONIDAE—EVENING BATS

- Antrozous pallidus*—pallid bat
- Corynorhinus townsendii*—Townsend's big-eared bat
- Eptesicus fuscus*—big brown bat
- Lasiurus cinereus*—hoary bat
- Lasiurus xanthinus*—western yellow bat
- Myotis californicus*—Californian myotis
- Myotis ciliolabrum*—western small-footed myotis
- Myotis yumanensis*—Yuma myotis
- Parastrellus hesperus*—canyon bat

CANIDS

CANIDAE—WOLVES AND FOXES

- Canis latrans*—coyote

CATS

FELIDAE—CATS

- Lynx rufus*—bobcat

HARES AND RABBITS

LEPORIDAE—HARES AND RABBITS

- Lepus californicus bennettii*—San Diego black-tailed jackrabbit
- Lepus californicus*—black-tailed jackrabbit
- Sylvilagus audubonii*—desert cottontail
- Sylvilagus bachmani*—brush rabbit

KANGAROO RATS

HETEROMYIDAE—POCKET MICE AND KANGAROO RATS

- Dipodomys* sp.—kangaroo rat (sign only)

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

- Thomomys bottae*—Botta's pocket gopher

SQUIRRELS

SCIURIDAE—SQUIRRELS

- Ammospermophilus leucurus*—white-tailed antelope squirrel
- Spermophilus (Otospermophilus) beecheyi*—California ground squirrel
- Tamias merriami*—Merriam's chipmunk
- Tamias obscurus*—California chipmunk

APPENDIX F-2 (Continued)

UNGULATES

CERVIDAE—DEERS

Odocoileus hemionus—mule deer

RATS, MICE AND VOLES

CRICETIDAE—RATS, MICE, AND VOLES

Neotoma lepida intermedia—San Diego desert woodrat

Microtus sp.—vole

REPTILES

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

Callisaurus draconoides—zebra-tailed lizard

Phrynosoma blainvillii—Blainville's horned lizard

Sceloporus occidentalis—western fence lizard

Sceloporus orcutti—granite spiny lizard

Uta stansburiana—common side-blotched lizard

ANGUIDAE—ALLIGATOR LIZARDS

Elgaria multicarinata—southern alligator lizard

TEIIDAE—WHIPTAIL LIZARDS

Aspidoscelis tigris stejnegeri—San Diegan tiger whiptail

SNAKES

COLUBRIDAE—COLUBRID SNAKES

Coluber lateralis—striped racer

Pituophis catenifer—gophersnake

Lampropeltis sp.—kingsnake

VIPERIDAE—VIPERS

Crotalus oreganus—western rattlesnake

* Non-native species

APPENDIX G
Golden Eagle Biotelemetry Data

2015-2017 (USGS 2017)

Golden Eagle Biotelemetry Data

Name	Time	Latitude	Longitude
f007-dsFeb20	2/24/2016 6:24	32.570229	116.508141
	2/24/2016 6:40	32.570198	116.508179
	2/24/2016 6:56	32.570061	116.507896
	2/24/2016 7:11	32.567947	116.503929
	2/24/2016 7:27	32.570938	-116.50396
	2/24/2016 7:43	32.571213	116.506416
	2/24/2016 7:59	32.571217	116.506432
	2/24/2016 8:14	32.571217	116.506424
	2/24/2016 8:30	32.57122	116.506432
	2/24/2016 8:46	32.571213	116.506424
	2/24/2016 9:02	32.571209	116.506416
	2/24/2016 9:17	32.570068	116.508286
	2/24/2016 9:33	32.570057	116.508308
	2/24/2016 10:20	32.570045	116.507469
	2/24/2016 10:35	32.570187	116.508354
	2/24/2016 10:51	32.570194	116.508247
	2/24/2016 11:07	32.570206	-116.50824
	2/24/2016 11:23	32.570183	116.508286
	2/24/2016 11:38	32.570301	116.507637
	2/24/2016 11:54	32.570438	116.506836
2/24/2016 12:10	32.571239	116.506416	

2/24/2016 12:26	32.571251	116.506432	-
2/24/2016 12:42	32.571259	116.505936	-
2/24/2016 12:57	32.570171	116.508278	-
2/24/2016 13:13	32.570232	116.507576	-
2/24/2016 13:28	32.567814	116.508698	-
2/24/2016 13:44	32.57122	116.506416	-
2/24/2016 14:00	32.571159	116.505226	-
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		-
3/24/2016 17:53	32.547409	116.273033
		-
3/24/2016 18:09	32.547215	116.273483
		-
3/24/2016 18:25	32.547203	116.273476
		-
3/24/2016 18:41	32.549786	116.277115
3/24/2016 18:56	32.54966	-116.27713
		-
3/24/2016 19:12	32.549725	116.277092
		-
3/24/2016 19:28	32.54961	116.277077
		-
3/24/2016 19:44	32.549679	116.277115
		-
3/24/2016 20:00	32.549801	116.277122
		-
3/24/2016 20:12	32.549809	116.277115
		-
3/25/2016 6:22	32.558857	116.277191
		-
3/25/2016 6:37	32.548462	116.276199
		-
3/25/2016 6:53	32.548279	116.276352
3/25/2016 7:08	32.548302	-116.27636
		-
3/25/2016 7:24	32.548309	116.276337
		-
3/25/2016 7:40	32.548271	116.276344
		-
3/25/2016 7:55	32.548275	116.276344
3/25/2016 8:11	32.548283	-116.27636
		-
3/25/2016 8:26	32.548286	116.276337
		-
3/25/2016 8:42	32.548302	116.276337

3/25/2016 8:58	32.548279	116.276321	-
3/25/2016 9:13	32.548264	116.276321	-
3/25/2016 9:29	32.548275	116.276321	-
3/25/2016 9:44	32.548286	-116.27636	-
3/25/2016 10:00	32.548302	116.276344	-
3/25/2016 10:16	32.54826	116.276337	-
3/25/2016 10:31	32.548191	116.276215	-
3/25/2016 10:47	32.548195	116.276245	-
3/25/2016 11:02	32.548203	116.276222	-
3/25/2016 11:18	32.548225	116.276192	-
3/25/2016 11:34	32.555946	116.274063	-
3/25/2016 11:49	32.551102	116.240623	-
3/25/2016 12:05	32.560009	116.241631	-
3/25/2016 12:20	32.565411	116.251801	-
3/25/2016 12:36	32.579338	116.242928	-
3/25/2016 12:52	32.582127	116.235138	-
3/25/2016 13:07	32.582497	116.231773	-
3/25/2016 13:23	32.582733	116.231018	-
3/25/2016 13:39	32.587872	116.224442	-
3/25/2016 13:54	32.570431	116.198158	-
3/25/2016 14:10	32.543316	116.228928	-
3/25/2016 14:25	32.531651	116.239098	-
3/25/2016 14:41	32.527866	116.222527	-
3/25/2016 14:57	32.55011	116.259354	-

3/25/2016 15:12	32.576111	-116.27961
		-
3/25/2016 15:28	32.539108	116.292221
		-
3/25/2016 15:44	32.539104	116.292236
		-
3/25/2016 15:59	32.539127	116.292252
		-
3/25/2016 16:15	32.540653	116.288719
		-
3/25/2016 16:30	32.540657	116.288704
		-
3/25/2016 16:46	32.540665	116.288696
3/25/2016 17:02	32.541298	-116.28698
		-
3/25/2016 17:17	32.540466	116.278992
		-
3/25/2016 17:33	32.54237	116.273781
		-
3/25/2016 17:49	32.546955	116.274216
		-
3/25/2016 18:04	32.546955	116.274208
3/25/2016 18:20	32.546947	-116.2742
		-
3/25/2016 18:35	32.546974	116.274208
		-
3/25/2016 18:51	32.546951	116.274216
		-
3/25/2016 19:07	32.546959	116.274216
		-
3/25/2016 19:22	32.546848	116.274139
3/25/2016 19:38	32.546951	-116.27417
		-
3/25/2016 19:54	32.546925	116.274208
		-
3/25/2016 20:08	32.546936	116.274208
		-
3/26/2016 5:33	32.546913	116.274254
		-
3/26/2016 5:48	32.546906	116.274193
		-
3/26/2016 6:04	32.546944	116.274261
		-
3/26/2016 6:20	32.546959	116.274284
		-
3/26/2016 6:35	32.546921	116.274239

3/26/2016 6:51	32.546928	116.274216	-
3/26/2016 7:06	32.546921	116.274216	-
3/26/2016 7:22	32.546913	116.274223	-
3/26/2016 7:38	32.546963	116.274208	-
3/26/2016 7:53	32.54694	116.274185	-
3/26/2016 8:09	32.546955	116.274208	-
3/26/2016 8:24	32.546955	-116.2742	-
3/26/2016 8:40	32.546978	116.274193	-
3/26/2016 8:56	32.546955	-116.2742	-
3/26/2016 9:11	32.546951	116.274231	-
3/26/2016 9:27	32.546982	116.274208	-
3/26/2016 9:43	32.546955	116.274223	-
3/26/2016 9:58	32.546978	116.274239	-
3/26/2016 10:14	32.546955	116.274223	-
3/26/2016 10:29	32.546871	116.274216	-
3/26/2016 10:45	32.546951	-116.2742	-
3/26/2016 11:01	32.546928	116.274231	-
3/26/2016 11:16	32.546932	116.274231	-
3/26/2016 11:32	32.546974	116.274216	-
3/26/2016 11:48	32.546989	116.274208	-
3/26/2016 12:03	32.546944	116.274178	-
3/26/2016 12:19	32.546936	116.274239	-
3/26/2016 12:34	32.547356	116.273949	-
3/26/2016 12:50	32.550575	116.277367	-

3/26/2016 13:06	32.550602	116.277367	-
3/26/2016 13:21	32.550629	116.277382	-
3/26/2016 13:37	32.550617	116.277382	-
3/26/2016 13:53	32.550625	116.277367	-
3/26/2016 14:08	32.555069	116.272125	-
3/26/2016 14:24	32.555138	116.272087	-
3/26/2016 14:40	32.555107	116.272087	-
3/26/2016 14:56	32.555092	116.272095	-
3/26/2016 15:11	32.555099	116.272079	-
3/26/2016 15:27	32.555119	116.272057	-
3/26/2016 15:43	32.555119	116.272064	-
3/26/2016 15:58	32.555088	116.272102	-
3/26/2016 16:14	32.555084	116.272087	-
3/26/2016 16:29	32.555077	116.272079	-
3/26/2016 16:45	32.555099	116.272057	-
3/26/2016 17:01	32.555645	116.271858	-
3/26/2016 17:17	32.556034	116.271385	-
3/26/2016 17:32	32.555931	-116.2714	-
3/26/2016 17:48	32.556011	116.271004	-
3/26/2016 18:03	32.556011	116.270943	-
3/26/2016 18:19	32.555946	116.270935	-
3/26/2016 18:35	32.556053	-116.27092	-
3/26/2016 18:50	32.556023	116.270905	-
3/26/2016 19:06	32.556	116.270905	-

	3/26/2016 19:22	32.556015	-116.27092
			-
	3/26/2016 19:37	32.555996	116.270897
			-
	3/26/2016 19:53	32.556011	116.270882
			-
	3/26/2016 20:08	32.556019	116.270882
	3/26/2016 20:10	32.556019	-116.27092
			-
	3/27/2016 5:32	32.556011	116.270958
			-
	3/27/2016 5:47	32.556026	116.270973
			-
m011-dsFeb20	3/8/2016 12:16	32.513931	116.520554
			-
	3/8/2016 12:31	32.536129	116.495972
			-
	3/8/2016 12:47	32.509998	116.518867
			-
	3/12/2016 14:00	32.543201	116.533867
			-
	3/12/2016 14:16	32.552765	116.475815
			-
	3/12/2016 14:31	32.573196	116.451668
			-
	3/12/2016 14:47	32.594063	116.431725
			-
	3/12/2016 15:02	32.61512	116.451935
			-
	3/12/2016 15:18	32.629253	116.496399
			-
	3/12/2016 15:34	32.63797	116.507011
			-
	3/12/2016 15:49	32.672642	116.546097
			-
	3/12/2016 16:05	32.675465	116.547501
			-
	3/12/2016 16:20	32.670322	116.549896
			-
	7/6/2016 14:38	32.826824	116.162399
			-
	7/6/2016 14:53	32.837917	116.244888
			-
	7/6/2016 15:09	32.819263	116.301025
			-
	7/6/2016 15:25	32.813671	116.371826

7/6/2016 15:40	32.813675	116.371849	-
7/6/2016 15:56	32.78717	116.399857	-
7/6/2016 16:11	32.787167	116.399841	-
7/6/2016 16:27	32.787178	116.399834	-
7/6/2016 16:43	32.787159	116.399849	-
7/6/2016 16:59	32.786579	116.402229	-
7/6/2016 17:14	32.786545	116.402229	-
7/6/2016 17:30	32.78656	116.402222	-
7/6/2016 17:45	32.782543	116.405014	-
7/6/2016 18:01	32.782524	116.404968	-
7/6/2016 18:16	32.782547	116.404976	-
7/6/2016 18:32	32.782524	116.404976	-
7/6/2016 18:47	32.782536	116.404968	-
7/6/2016 19:03	32.776512	116.403702	-
7/6/2016 19:18	32.776524	116.403725	-
7/6/2016 19:34	32.776512	116.403709	-
7/6/2016 19:49	32.776524	116.403687	-
7/6/2016 20:05	32.776508	116.403717	-
7/6/2016 20:20	32.776508	116.403679	-
7/6/2016 20:36	32.776535	116.403702	-
7/6/2016 20:52	32.77652	116.403709	-
7/6/2016 21:08	32.776531	116.403725	-
7/6/2016 21:09	32.776524	116.403702	-

7/7/2016 4:31	32.776562	116.403702	-
7/7/2016 4:45	32.776546	116.403694	-
7/7/2016 5:01	32.77652	-116.40374	-
7/7/2016 5:16	32.776524	116.403725	-
7/7/2016 5:32	32.77652	-116.40374	-
7/7/2016 5:47	32.776508	116.403732	-

APPENDIX H
Jurisdictional Delineation Forms

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/12/18 & 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 1a
 Investigator(s): L. Mobley, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): 5%
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Seep on hillslope approximately 20'x20' in size. Surrounding area is upland.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2. _____				Total Number of Dominant Species Across All Strata:	7 (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	28.6 % (A/B)
4. _____					
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Quercus ×acutidens</i>	10	Yes	Not Listed		
2. <i>Arctostaphylos pungens</i>	5	Yes	Not Listed		
3. <i>Ceanothus leucodermis</i>	5	Yes	Not Listed		
4. <i>Prunus ilicifolia</i>	5	Yes	Not Listed		
5. <i>Eriogonum fasciculatum var. polifolium</i>	5	Yes	Not Listed		
Total Cover: 30 %					
Herb Stratum					
1. <i>Anemopsis californica</i>	30	Yes	OBL		
2. <i>Juncus mexicanus</i>	20	Yes	FACW		
3. <i>Urtica dioica</i>	10	No	FAC		
4. <i>Juncus acutus</i>	5	No	FACW		
5. <i>Heliotropium curassavicum</i>	5	No	FACU		
6. <i>Artemisia dracunculus</i>	1	No	Not Listed		
7. _____					
8. _____					
Total Cover: 71 %					
Woody Vine Stratum					
1. _____					
2. _____					
Total Cover: _____ %					
% Bare Ground in Herb Stratum _____ %		% Cover of Biotic Crust _____ %			

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: DS 1a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 2/1	100					sandy clay loam	
2-16	7.5YR 3/1	90	7.5YR 4/6	10	C	M	sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
--	--	--	--

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
--	---

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
---	---	---

Field Observations: Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>1"</u> Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 1b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): 5%
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0 %</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
Total Cover: <u> </u> %				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species</td> <td>x 3 = <u>6</u></td> </tr> <tr> <td>FACU species</td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td>x 5 = <u>55</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>53</u> (A) <u>141</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.66</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species	x 1 = <u>0</u>	FACW species	x 2 = <u>80</u>	FAC species	x 3 = <u>6</u>	FACU species	x 4 = <u>0</u>	UPL species	x 5 = <u>55</u>	Column Totals:	<u>53</u> (A) <u>141</u> (B)	Prevalence Index = B/A = <u>2.66</u>	
Total % Cover of:	Multiply by:																			
OBL species	x 1 = <u>0</u>																			
FACW species	x 2 = <u>80</u>																			
FAC species	x 3 = <u>6</u>																			
FACU species	x 4 = <u>0</u>																			
UPL species	x 5 = <u>55</u>																			
Column Totals:	<u>53</u> (A) <u>141</u> (B)																			
Prevalence Index = B/A = <u>2.66</u>																				
Sapling/Shrub Stratum																				
1. <i>Eriogonum fasciculatum var. polifolium</i>	5	Yes	Not Listed																	
2. <i>Artemisia dracunculus</i>	2	No	Not Listed																	
3. <i>Quercus × acutidens</i>	2	No	Not Listed																	
4. <i>Prunus ilicifolia</i>	2	No	Not Listed																	
5. _____																				
Total Cover: <u>11</u> %																				
Herb Stratum																				
1. <i>Juncus mexicanus</i>	30	Yes	FACW																	
2. <i>Anemopsis californica</i>	10	No	FACW																	
3. <i>Urtica dioica</i>	2	No	FAC																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
Total Cover: <u>42</u> %																				
Woody Vine Stratum																				
1. _____																				
2. _____																				
Total Cover: <u> </u> %																				
% Bare Ground in Herb Stratum <u> </u> %		% Cover of Biotic Crust <u> </u> %																		

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: DS 1b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 4/2	100					sandy clay loam	
10-16	10YR 4/2	93	10YR 3/4	5	C	M	sandy clay loam	
10-16	10YR 4/2	--	10YR /2	2	D	M	sandy clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | |
|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | |

Indicators for Problematic Hydric Soils⁴:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: concentration and depletion features only present in 10"+ layer but are present in a layer at least 6 inches thick starting at a depth of 10 inches from soil surface.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/25/18, 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 2a
 Investigator(s): L. Mobley, M. Forgey, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Hydrophytic vegetation adjacent to ponded water (DS 3)	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>Quercus agrifolia</i>	5	Yes	Not Listed	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)	
2. _____				Total Number of Dominant Species Across All Strata: 6 (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B)	
4. _____					
Total Cover:	5 %				
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Artemisia tridentata</i>	3	Yes	Not Listed	Total % Cover of: _____ Multiply by: _____	
2. <i>Arctostaphylos pungens</i>	2	Yes	Not Listed	OBL species	40 x 1 = 40
3. <i>Artemisia dracunculus</i>	2	Yes	Not Listed	FACW species	55 x 2 = 110
4. _____				FAC species	_____ x 3 = 0
5. _____				FACU species	3 x 4 = 12
Total Cover:	7 %			UPL species	14 x 5 = 70
Herb Stratum				Column Totals:	112 (A) 232 (B)
1. <i>Juncus mexicanus</i>	55	Yes	FACW	Prevalence Index = B/A = 2.07	
2. <i>Anemopsis californica</i>	40	Yes	OBL		
3. <i>Ambrosia psilostachya</i>	3	No	FACU		
4. <i>Carduus pycnocephalus</i>	2	No	Not Listed		
5. _____					
6. _____					
7. _____					
8. _____					
Total Cover:	100%				
Woody Vine Stratum				Hydrophytic Vegetation Indicators:	
1. _____				<input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
2. _____				¹ Indicators of hydric soil and wetland hydrology must be present.	
Total Cover:	%				
% Bare Ground in Herb Stratum _____ %		% Cover of Biotic Crust _____ %		Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	

Remarks: _____

SOIL

Sampling Point: DS 2a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	5Y 2.5/1	100	N/A				clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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Restrictive Layer (if present): Type: roots _____ Depth (inches): 10+ _____	Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 2b
 Investigator(s): C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Hydrophytic vegetation adjacent to ponded water (DS 3)	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Quercus agrifolia</i> (canopy cover)	2	No	Not Listed		
2. _____					
3. _____					
4. _____					
Total Cover:	2 %				
Sapling/Shrub Stratum					
1. <i>Artemisia tridentata</i>	20	Yes	Not Listed		
2. <i>Artemisia dracunculus</i>	20	Yes	Not Listed		
3. <i>Arctostaphylos pungens</i>	2	No	Not Listed		
4. _____					
5. _____					
Total Cover:	42 %				
Herb Stratum					
1. <i>Juncus mexicanus</i>	80	Yes	FACW		
2. <i>Anemopsis californica</i>	30	Yes	OBL		
3. <i>Carduus pycnocephalus</i>	2	No	Not Listed		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
Total Cover:	112 %				
Woody Vine Stratum					
1. _____					
2. _____					
Total Cover:	%				
% Bare Ground in Herb Stratum _____ %	% Cover of Biotic Crust _____ %				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:		
OBL species	30	x 1 =		30	
FACW species	80	x 2 =		160	
FAC species		x 3 =		0	
FACU species		x 4 =		0	
UPL species	46	x 5 =		230	
Column Totals:	156	(A)		420	(B)
Prevalence Index = B/A =				2.69	

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: DS 2b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	5Y 2.5/1	100	N/A				clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
--	---	--

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ Remarks: _____		

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 3
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Spring Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: <u>Concrete-walled basin/spring with earthen bottom; fenced.</u>	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
Total Cover: _____ %				
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: _____ %				
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Typha latifolia</u>	100	Yes	OBL	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Total Cover: <u>100%</u>				
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
Total Cover: _____ %				
% Bare Ground in Herb Stratum _____ %		% Cover of Biotic Crust _____ %		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	100	x 1 =	100
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	100	(A)	100 (B)
Prevalence Index = B/A =			1.00

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 7/17/18 & 9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 4
 Investigator(s): M. O'Conner, M. Forgey, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): drainage channel Local relief (concave, convex, none): None Slope (%): 10
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <i>Salix lasiolepis</i>	20	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B)																																
2. <i>Quercus agrifolia</i>	5	No	Not Listed																																	
3. _____																																				
4. _____																																				
Total Cover:	25 %																																			
Sapling/Shrub Stratum																																				
1. <i>Artemisia dracunculus</i>	5	Yes	Not Listed	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="width: 20px;"></td> <td style="text-align: right;">Multiply by:</td> <td></td> </tr> <tr> <td>OBL species</td> <td style="background-color: #cccccc;"></td> <td style="text-align: right;">x 1 =</td> <td style="background-color: #cccccc; text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">20</td> <td style="text-align: right;">x 2 =</td> <td style="background-color: #cccccc; text-align: center;">40</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">2</td> <td style="text-align: right;">x 3 =</td> <td style="background-color: #cccccc; text-align: center;">6</td> </tr> <tr> <td>FACU species</td> <td style="background-color: #cccccc;"></td> <td style="text-align: right;">x 4 =</td> <td style="background-color: #cccccc; text-align: center;">0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">26</td> <td style="text-align: right;">x 5 =</td> <td style="background-color: #cccccc; text-align: center;">130</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">48</td> <td style="text-align: center;">(A)</td> <td style="text-align: center;">176 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td></td> <td style="background-color: #cccccc; text-align: center;">3.67</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species		x 1 =	0	FACW species	20	x 2 =	40	FAC species	2	x 3 =	6	FACU species		x 4 =	0	UPL species	26	x 5 =	130	Column Totals:	48	(A)	176 (B)	Prevalence Index = B/A =			3.67
Total % Cover of:		Multiply by:																																		
OBL species		x 1 =	0																																	
FACW species	20	x 2 =	40																																	
FAC species	2	x 3 =	6																																	
FACU species		x 4 =	0																																	
UPL species	26	x 5 =	130																																	
Column Totals:	48	(A)	176 (B)																																	
Prevalence Index = B/A =			3.67																																	
2. <i>Ericameria linearifolia</i>	1	No	Not Listed																																	
3. _____																																				
4. _____																																				
5. _____																																				
Total Cover:	6 %																																			
Herb Stratum																																				
1. <i>Bromus tectorum</i>	10	Yes	Not Listed	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																																
2. <i>Avena barbata</i>	3	No	Not Listed																																	
3. <i>Eriastrum densifolium</i>	2	No	NI																																	
4. <i>Urtica dioica</i>	1	No	FAC																																	
5. <i>Rumex crispus</i>	1	No	FAC																																	
6. _____																																				
7. _____																																				
8. _____																																				
Total Cover:	17 %																																			
Woody Vine Stratum																																				
1. _____				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>																																
2. _____																																				
Total Cover:	%																																			
% Bare Ground in Herb Stratum <u>50 %</u>		% Cover of Biotic Crust _____ %																																		

Remarks: _____

SOIL

Sampling Point: DS 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	7.5YR 4/2	100	N/A				Sand	
6-16	7.5YR 3/3	100	N/A				Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/1/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 5a
 Investigator(s): S. Lawrence, B. Mulrooney, C. Amoaku, P. Sob Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Sample point in collection basin in the sand pit area where sand and gravel has been excavated.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>Salix lasiolepis</i>	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2. <i>Tamarix (chinensis) ramosissima</i>	1	No	FAC	Total Number of Dominant Species Across All Strata:	4 (B)
3. <i>Salix exigua</i>	1	No	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0 % (A/B)
4. <i>Populus fremontii</i>	1	No	Not Listed		
Total Cover:	13 %				
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Baccharis salicifolia</i>	8	Yes	FAC	Total % Cover of:	Multiply by:
2.				OBL species	x 1 = 0
3.				FACW species	26 x 2 = 52
4.				FAC species	15 x 3 = 45
5.				FACU species	3 x 4 = 12
	8 %			UPL species	11 x 5 = 55
Total Cover:	8 %			Column Totals:	55 (A) 164 (B)
Herb Stratum				Prevalence Index = B/A = 2.98	
1. <i>Hirschfeldia incana</i>	10	Yes	Not Listed	Hydrophytic Vegetation Indicators:	
2. <i>Persicaria lapathifolia</i>	10	Yes	FACW	<input checked="" type="checkbox"/> Dominance Test is >50%	
3. <i>Rumex crispus</i>	5	No	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹	
4. <i>Polypogon monspeliensis</i>	5	No	FACW	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. <i>Xanthium strumarium</i>	1	No	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6. <i>Chenopodium album</i>	1	No	FACU		
7. <i>Heliotropium curassavicum</i>	1	No	FACU		
8. <i>Erigeron canadensis</i>	1	No	FACU		
Total Cover:	34 %			¹ Indicators of hydric soil and wetland hydrology must be present.	
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
1.					
2.					
Total Cover:	%				
% Bare Ground in Herb Stratum	50 %	% Cover of Biotic Crust	%		

Remarks:

SOIL

Sampling Point: DS 5a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: Assumed hydric soils based on saturation and inundation on aerial

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	<p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations:

Surface Water Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	<u>4 inches</u>
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	_____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 5b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0 %</u> (A/B)	
4. _____	_____	_____	_____		
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Ambrosia psilostachya</i>	15	Yes	FACU	Total % Cover of: _____ Multiply by: _____	
2. <i>Artemisia tridentata</i>	10	No	Not Listed	OBL species _____ x 1 = <u>0</u>	
3. <i>Baccharis salicifolia</i>	5	No	FAC	FACW species _____ x 2 = <u>0</u>	
4. _____	_____	_____	_____	FAC species <u>5</u> x 3 = <u>15</u>	
5. _____	_____	_____	_____	FACU species <u>15</u> x 4 = <u>60</u>	
Total Cover: <u>30 %</u>				UPL species <u>10</u> x 5 = <u>50</u>	
Herb Stratum				Column Totals: <u>30</u> (A) <u>125</u> (B)	
1. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.17</u>	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
Total Cover: _____ %					
Woody Vine Stratum					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
Total Cover: _____ %					
% Bare Ground in Herb Stratum _____ %	% Cover of Biotic Crust _____ %			Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks:

SOIL

Sampling Point: DS 5b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Texture ³	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹			Loc ²
0-4	10YR 4/4	100	N/A			sandy loam		
4-16	10YR 3/4	100	N/A			clay loam		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

<p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____	<p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
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HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	<p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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<p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	<p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/2/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 6a
 Investigator(s): S. Lawrence, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <i>Salix lasiolepis</i>	20	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)																																
2. <i>Populus fremontii</i>	5	No	Not Listed																																	
3. <i>Tamarix (chinensis) ramosissima</i>	1	No	FAC																																	
4. _____																																				
Total Cover: 26 %																																				
Sapling/Shrub Stratum																																				
1. <i>Baccharis salicifolia</i>	30	Yes	FAC	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td></td> <td style="text-align: right;">Multiply by:</td> <td></td> </tr> <tr> <td>OBL species</td> <td style="background-color: #e0e0e0;"></td> <td style="text-align: right;">x 1 =</td> <td style="background-color: #e0e0e0;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">20</td> <td style="text-align: right;">x 2 =</td> <td style="background-color: #e0e0e0;">40</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">36</td> <td style="text-align: right;">x 3 =</td> <td style="background-color: #e0e0e0;">108</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">1</td> <td style="text-align: right;">x 4 =</td> <td style="background-color: #e0e0e0;">4</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">26</td> <td style="text-align: right;">x 5 =</td> <td style="background-color: #e0e0e0;">130</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">83</td> <td style="text-align: right;">(A)</td> <td style="background-color: #e0e0e0;">282 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td></td> <td style="background-color: #e0e0e0;">3.40</td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species		x 1 =	0	FACW species	20	x 2 =	40	FAC species	36	x 3 =	108	FACU species	1	x 4 =	4	UPL species	26	x 5 =	130	Column Totals:	83	(A)	282 (B)	Prevalence Index = B/A =			3.40
Total % Cover of:		Multiply by:																																		
OBL species		x 1 =	0																																	
FACW species	20	x 2 =	40																																	
FAC species	36	x 3 =	108																																	
FACU species	1	x 4 =	4																																	
UPL species	26	x 5 =	130																																	
Column Totals:	83	(A)	282 (B)																																	
Prevalence Index = B/A =			3.40																																	
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
Total Cover: 30 %																																				
Herb Stratum																																				
1. <i>Artemisia tridentata</i>	10	Yes	Not Listed	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																																
2. <i>Artemisia dracunculus</i>	5	Yes	Not Listed																																	
3. <i>Medicago lupulina</i>	5	Yes	FAC																																	
4. <i>Schismus barbatus</i>	5	Yes	Not Listed																																	
5. <i>Gutierrezia californica</i>	1	No	Not Listed																																	
6. <i>Erigeron canadensis</i>	1	No	FACU																																	
7. _____																																				
8. _____																																				
Total Cover: 27 %																																				
Woody Vine Stratum																																				
1. _____				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>																																
2. _____																																				
Total Cover: %																																				
% Bare Ground in Herb Stratum 50 %		% Cover of Biotic Crust %																																		

Remarks: _____

SOIL

Sampling Point: DS 6a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 5/4	100	N/A				sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

<p>Restrictive Layer (if present):</p> Type: _____ Depth (inches): _____ Remarks: _____	<p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
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HYDROLOGY

<p>Wetland Hydrology Indicators:</p> Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine) <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input checked="" type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	<p>Secondary Indicators (2 or more required)</p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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<p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): _____	<p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 6b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: <u>Small depression in overall basin that collects water for longer periods of time.</u>	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>5</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0.0 %</u> (A/B)
4. _____				Prevalence Index worksheet:	
Total Cover: _____ %				Total % Cover of: _____ Multiply by: _____	
Sapling/Shrub Stratum				OBL species	x 1 = <u>0</u>
1. <u>Artemisia dracunculus</u>	<u>2</u>	Yes	Not Listed	FACW species	x 2 = <u>0</u>
2. <u>Artemisia tridentata</u>	<u>2</u>	Yes	Not Listed	FAC species	x 3 = <u>0</u>
3. _____				FACU species	<u>1</u> x 4 = <u>4</u>
4. _____				UPL species	<u>19</u> x 5 = <u>95</u>
5. _____				Column Totals:	<u>20</u> (A) <u>99</u> (B)
Total Cover: <u>4</u> %				Prevalence Index = B/A = <u>4.95</u>	
Herb Stratum				Hydrophytic Vegetation Indicators:	
1. <u>Hirschfeldia incana</u>	<u>5</u>	Yes	Not Listed	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. <u>Bromus madritensis</u>	<u>5</u>	Yes	UPL	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. <u>Schismus barbatus</u>	<u>5</u>	Yes	Not Listed	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Heliotropium curassavicum</u>	<u>1</u>	No	FACU	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present.	
6. _____				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
7. _____					
8. _____					
Total Cover: <u>16</u> %					
Woody Vine Stratum					
1. _____					
2. _____					
Total Cover: _____ %					
% Bare Ground in Herb Stratum <u>80 %</u>		% Cover of Biotic Crust _____ %			

Remarks: _____

SOIL

Sampling Point: DS 6b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-6	2.5YR 6/3	95	7.5YR 5/8	5	C	PL	clay loam	
6-16	2.5YR 6/3	70	5YR 5/6	5	C	PL	clay loam	
6-16	2.5YR 3/2	20	5YR 5/6	5	C	PL	clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input checked="" type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations:

Surface Water Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Depth (inches): _____
Water Table Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Depth (inches): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 8/2/18&9/25/18
 Applicant/Owner: Various State: CA Sampling Point: DS 7a
 Investigator(s): S. Lawrence, C. Amoaku, P. Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Sample point in collection basin in the sand pit area where sand and gravel has been excavated.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>Salix lasiolepis</i>	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	7 (A)
2. <i>Salix exigua</i>	20	Yes	FACW	Total Number of Dominant Species Across All Strata:	8 (B)
3. <i>Tamarix (chinensis) ramosissima</i>	10	No	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC:	87.5 % (A/B)
4. <i>Populus fremontii</i>	1	No	Not Listed		
Total Cover:	71 %				
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. <i>Baccharis salicifolia</i>	2	Yes	FAC	Total % Cover of: _____ Multiply by: _____	
2. <i>Artemisia tridentata</i>	1	No	Not Listed	OBL species	1 x 1 = 1
3. _____				FACW species	61 x 2 = 122
4. _____				FAC species	14 x 3 = 42
5. _____				FACU species	1 x 4 = 4
Total Cover:	3 %			UPL species	2 x 5 = 10
Herb Stratum				Column Totals:	79 (A) 179 (B)
1. <i>Erigeron canadensis</i>	1	Yes	FACU	Prevalence Index = B/A = 2.27	
2. <i>Rumex crispus</i>	1	Yes	FAC	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
3. <i>Xanthium strumarium</i>	1	Yes	FAC		
4. <i>Polypogon monspeliensis</i>	1	Yes	FACW		
5. <i>Typha sp. (dead)</i>	1	Yes	OBL		
6. _____					
7. _____					
8. _____					
Total Cover:	5 %				
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
1. _____					
2. _____					
Total Cover:	%				
% Bare Ground in Herb Stratum <u>50 %</u>	%		% Cover of Biotic Crust _____ %		

Remarks:

SOIL

Sampling Point: DS 7a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Assumed hydric soils based on ponded water.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>unknown</u> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 9/25/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 7b
 Investigator(s): Callie Amoaku, Patricia Schuyler Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>Salix lasiolepis</i>	25	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2. <i>Salix exigua</i>	10	No	FACW	Total Number of Dominant Species Across All Strata:	4 (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0 % (A/B)
4. _____					
Total Cover:			35 %		
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:	
1. <i>Artemisia dracunculus</i>	5	Yes	Not Listed	Total % Cover of:	Multiply by:
2. <i>Baccharis salicifolia</i>	5	Yes	FAC	OBL species	x 1 = 0
3. <i>Ambrosia psilostachya</i>	1	No	FACU	FACW species	35 x 2 = 70
4. _____				FAC species	5 x 3 = 15
5. _____				FACU species	1 x 4 = 4
Total Cover:			11 %	UPL species	10 x 5 = 50
				Column Totals:	51 (A) 139 (B)
				Prevalence Index = B/A = 2.73	
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <i>Bromus madritensis</i>	5	Yes	UPL	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. _____				<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present.	
6. _____					
7. _____					
8. _____					
Total Cover:			5 %		
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?	
1. _____				Yes <input checked="" type="radio"/> No <input type="radio"/>	
2. _____					
Total Cover:			%		
% Bare Ground in Herb Stratum		%	% Cover of Biotic Crust		%

Remarks: _____

SOIL

Sampling Point: DS 7b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	5YR 3/3	100	N/A				sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<p>Indicators for Problematic Hydric Soils:⁴</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

<p>Restrictive Layer (if present):</p> Type: <u>hard soil</u> Depth (inches): <u>12+</u>	<p>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
Remarks:	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (any one indicator is sufficient)</p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input type="checkbox"/> Other (Explain in Remarks)	<p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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<p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	<p>Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

New: DS 8a

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: CJA5a
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
Total Cover: _____ %				
Sapling/Shrub Stratum				
1. <i>Isocoma menziesii</i>	3	Yes	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: 3 %				
Herb Stratum				
1. <i>Juncus mexicanus</i>	70	Yes	FACW	
2. <i>Ambrosia psilostachya</i>	10	No	FACU	
3. <i>Anemopsis californica</i>	10	No	OBL	
4. <i>Carex praegracilis</i>	5	No	FACW	
5. <i>Erigeron foliosus</i>	3	No	Not Listed	
6. <i>Cirsium vulgare</i>	2	No	FACU	
7. <i>Solidago velutina ssp. californica</i>	1	No	Not Listed	
8. <i>Distichlis spicata</i>	1	No	FAC	
Total Cover: 102%				
Woody Vine Stratum				
1. _____				
2. _____				
Total Cover: _____ %				
% Bare Ground in Herb Stratum _____ %		% Cover of Biotic Crust _____ %		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	75	x 2 =	150
FAC species	4	x 3 =	12
FACU species	12	x 4 =	48
UPL species	4	x 5 =	20
Column Totals:	105 (A)		240 (B)
Prevalence Index = B/A =			2.29

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: CJA5a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-12	5YR 3/1	98	2.5YR 4/8	2	C	PL	clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Tule Creek floodplain

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8b
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
Total Cover: _____ %				
Sapling/Shrub Stratum				
1. <i>Marrubium vulgare</i>	2	Yes	FACU	
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: 2 %				
Herb Stratum				
1. <i>Carex praegracilis</i>	50	Yes	FACW	
2. <i>Ambrosia psilostachya</i>	40	Yes	FACU	
3. <i>Juncus mexicanus</i>	10	No	FACW	
4. <i>Cirsium vulgare</i>	1	No	FACU	
5. <i>Hirschfeldia incana</i>	1	No	Not Listed	
6. _____				
7. _____				
8. _____				
Total Cover: 102 %				
Woody Vine Stratum				
1. _____				
2. _____				
Total Cover: _____ %				
% Bare Ground in Herb Stratum _____ %		% Cover of Biotic Crust _____ %		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 % (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	60	x 1 =	0
FACW species	60	x 2 =	120
FAC species	60	x 3 =	0
FACU species	43	x 4 =	172
UPL species	1	x 5 =	5
Column Totals:	104 (A)		297 (B)
Prevalence Index = B/A =			2.86

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks: _____

SOIL

Sampling Point: DS 8b

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-12	5YR 3/1	98	2.5YR 4/8	2	C	PL	clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8c
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: _____ _____ _____	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																									
1. <i>Salix laevigata</i>	10	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)																								
2. _____																												
3. _____																												
4. _____																												
Total Cover: 10 %																												
Sapling/Shrub Stratum																												
1. <i>Baccharis salicifolia</i>	20	Yes	FAC	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Total % Cover of:</th> <th colspan="2" style="text-align: right;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">30</td> <td style="text-align: center;">x 1 = 30</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">70</td> <td style="text-align: center;">x 2 = 140</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">20</td> <td style="text-align: center;">x 3 = 60</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">x 4 = 0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">x 5 = 0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">120 (A)</td> <td style="text-align: center;">230 (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A =</td> <td style="text-align: center;">1.92</td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:		OBL species	30	x 1 = 30	FACW species	70	x 2 = 140	FAC species	20	x 3 = 60	FACU species	_____	x 4 = 0	UPL species	_____	x 5 = 0	Column Totals:	120 (A)	230 (B)	Prevalence Index = B/A =		1.92
Total % Cover of:	Multiply by:																											
OBL species	30	x 1 = 30																										
FACW species	70	x 2 = 140																										
FAC species	20	x 3 = 60																										
FACU species	_____	x 4 = 0																										
UPL species	_____	x 5 = 0																										
Column Totals:	120 (A)	230 (B)																										
Prevalence Index = B/A =		1.92																										
2. _____																												
3. _____																												
4. _____																												
5. _____																												
Total Cover: 20 %																												
Herb Stratum																												
1. <i>Carex praegracilis</i>	45	Yes	FACW	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																								
2. <i>Anemopsis californica</i>	30	Yes	OBL																									
3. <i>Euthamia occidentalis</i>	15	No	FACW																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
Total Cover: 90 %																												
Woody Vine Stratum																												
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																								
2. _____																												
Total Cover: %																												
% Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ %																												

Remarks: _____

SOIL

Sampling Point: DS 8c

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	2.5YR 2.5/1	98	2.5YR 4/6	2	C	M	loamy sand	
6-12	2.5YR 2.5/1	95	2.5YR 4/6	5	C	M	loamy sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
--	---

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Campo Wind City/County: Campo/San Diego Sampling Date: 10/5/2018
 Applicant/Owner: Various State: CA Sampling Point: DS 8d
 Investigator(s): Callie Amoaku, Erin Bergman Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): C - Mediterranean California Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
Total Cover: _____ %				
Sapling/Shrub Stratum				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: _____ %				
Herb Stratum				
1. <i>Lactuca serriola</i>	40	Yes	FACU	
2. <i>Cirsium vulgare</i>	30	Yes	FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Total Cover: 70 %				
Woody Vine Stratum				
1. _____				
2. _____				
Total Cover: _____ %				
% Bare Ground in Herb Stratum _____ %	% Cover of Biotic Crust _____ %			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: **0** (A)

Total Number of Dominant Species Across All Strata: **2** (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: **0.0** % (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:		
OBL species	x 1 =	0	
FACW species	x 2 =	0	
FAC species	x 3 =	0	
FACU species	x 4 =	280	
UPL species	x 5 =	0	
Column Totals:		70 (A)	280 (B)
Prevalence Index = B/A =			4.00

Hydrophytic Vegetation Indicators:

Dominance Test is >50%

Prevalence Index is ≤3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks:

SOIL

Sampling Point: DS 8d

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	2.5YR 3/1	100	N/A				Loam	
6-12	2.5YR 3/1	95	2.5YR 4/8	5	C	M	Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	Indicators for Problematic Hydric Soils:⁴ <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
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⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) <input checked="" type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Unnamed tributary to Campo Creek floodplain

APPENDIX I
Shannon Diversity Index Data and Calculations

APPENDIX I

Shannon Diversity Index Data and Calculations

APPENDIX I

Shannon Diversity Index Raw Data and Calculations

Table I-1
Species and Individuals Observed

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
AA	American crow	3	0.009146341	-4.69440132	0.042936597
AA	Anna's hummingbird	1	0.00304878	-5.793013608	0.017661627
AA	Bewick's wren	3	0.009146341	-4.69440132	0.042936597
AA	black-chinned sparrow	1	0.00304878	-5.793013608	0.017661627
AA	black-headed grosbeak	1	0.00304878	-5.793013608	0.017661627
AA	blue-gray gnatcatcher	4	0.012195122	-4.406719247	0.053740479
AA	brown-headed cowbird	2	0.006097561	-5.099866428	0.031096747
AA	bushtit	30	0.091463415	-2.391816227	0.218763679
AA	California quail	3	0.009146341	-4.69440132	0.042936597
AA	California scrub-jay	52	0.158536585	-1.84176989	0.291987909
AA	California thrasher	11	0.033536585	-3.395118336	0.113860676
AA	California towhee	26	0.079268293	-2.53491707	0.200938548
AA	Cassin's kingbird	2	0.006097561	-5.099866428	0.031096747
AA	common raven	78	0.237804878	-1.436304782	0.341560283
AA	Cooper's hawk	1	0.00304878	-5.793013608	0.017661627
AA	dark-eyed junco	11	0.033536585	-3.395118336	0.113860676
AA	house finch	13	0.039634146	-3.228064251	0.127941571
AA	house wren	1	0.00304878	-5.793013608	0.017661627
AA	Lawrence's goldfinch	2	0.006097561	-5.099866428	0.031096747
AA	lazuli bunting	1	0.00304878	-5.793013608	0.017661627
AA	lesser goldfinch	18	0.054878049	-2.90264185	0.159291321
AA	mourning dove	3	0.009146341	-4.69440132	0.042936597
AA	northern flicker	2	0.006097561	-5.099866428	0.031096747
AA	northern mockingbird	1	0.00304878	-5.793013608	0.017661627
AA	Nuttall's woodpecker	1	0.00304878	-5.793013608	0.017661627
AA	oak titmouse	1	0.00304878	-5.793013608	0.017661627
AA	phainopepla	4	0.012195122	-4.406719247	0.053740479
AA	red-shouldered hawk	2	0.006097561	-5.099866428	0.031096747
AA	red-tailed hawk	5	0.015243902	-4.183575696	0.06377402
AA	song sparrow	1	0.00304878	-5.793013608	0.017661627
AA	spotted towhee	15	0.045731707	-3.084963407	0.141080644
AA	turkey vulture	14	0.042682927	-3.153956279	0.134620085
AA	western bluebird	3	0.009146341	-4.69440132	0.042936597
AA	wrentit	12	0.036585366	-3.308106959	0.121028303
AB	American crow	7	0.023411371	-3.754533424	0.087898776

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
AB	Anna's hummingbird	2	0.006688963	-5.007296393	0.033493621
AB	Bewick's wren	3	0.010033445	-4.601831285	0.04617222
AB	black-chinned sparrow	2	0.006688963	-5.007296393	0.033493621
AB	black-throated gray warbler	1	0.003344482	-5.700443573	0.019065029
AB	blue-gray gnatcatcher	7	0.023411371	-3.754533424	0.087898776
AB	bush tit	12	0.040133779	-3.215536924	0.129051649
AB	California scrub-jay	21	0.070234114	-2.655921136	0.186536267
AB	California thrasher	5	0.016722408	-4.091005661	0.068411466
AB	California towhee	5	0.016722408	-4.091005661	0.068411466
AB	common raven	123	0.411371237	-0.888259218	0.365404294
AB	Cooper's hawk	1	0.003344482	-5.700443573	0.019065029
AB	dark-eyed junco	3	0.010033445	-4.601831285	0.04617222
AB	house finch	29	0.096989967	-2.333147743	0.226291922
AB	house wren	1	0.003344482	-5.700443573	0.019065029
AB	Lawrence's goldfinch	3	0.010033445	-4.601831285	0.04617222
AB	lazuli bunting	3	0.010033445	-4.601831285	0.04617222
AB	lesser goldfinch	10	0.033444816	-3.39785848	0.113640752
AB	mourning dove	5	0.016722408	-4.091005661	0.068411466
AB	northern flicker	1	0.003344482	-5.700443573	0.019065029
AB	oak titmouse	1	0.003344482	-5.700443573	0.019065029
AB	phainopepla	1	0.003344482	-5.700443573	0.019065029
AB	red-tailed hawk	19	0.063545151	-2.756004594	0.175130727
AB	song sparrow	1	0.003344482	-5.700443573	0.019065029
AB	spotted towhee	16	0.053511706	-2.927854851	0.156674507
AB	turkey vulture	4	0.013377926	-4.314149212	0.057714371
AB	warbling vireo	3	0.010033445	-4.601831285	0.04617222
AB	white-crowned sparrow	1	0.003344482	-5.700443573	0.019065029
AB	white-throated swift	3	0.010033445	-4.601831285	0.04617222
AB	wren tit	6	0.02006689	-3.908684104	0.078435133
AC	Anna's hummingbird	3	0.011904762	-4.430816799	0.052747819
AC	ash-throated flycatcher	3	0.011904762	-4.430816799	0.052747819
AC	Bewick's wren	4	0.015873016	-4.143134726	0.065764043
AC	black-throated sparrow	2	0.007936508	-4.836281907	0.03838319
AC	blue-gray gnatcatcher	3	0.011904762	-4.430816799	0.052747819
AC	Bullock's oriole	1	0.003968254	-5.529429088	0.021942179
AC	bush tit	2	0.007936508	-4.836281907	0.03838319

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
AC	California scrub-jay	67	0.265873016	-1.324736468	0.35221168
AC	California thrasher	7	0.027777778	-3.583518938	0.099542193
AC	California towhee	16	0.063492063	-2.756840365	0.175037484
AC	common raven	73	0.28968254	-1.238969646	0.358907874
AC	Costa's hummingbird	2	0.007936508	-4.836281907	0.03838319
AC	dark-eyed junco	6	0.023809524	-3.737669618	0.088992134
AC	house finch	13	0.051587302	-2.96447973	0.15292951
AC	Lawrence's goldfinch	2	0.007936508	-4.836281907	0.03838319
AC	lesser goldfinch	8	0.031746032	-3.449987546	0.109523414
AC	northern flicker	6	0.023809524	-3.737669618	0.088992134
AC	northern mockingbird	2	0.007936508	-4.836281907	0.03838319
AC	Nuttall's woodpecker	1	0.003968254	-5.529429088	0.021942179
AC	phainopepla	1	0.003968254	-5.529429088	0.021942179
AC	red-tailed hawk	8	0.031746032	-3.449987546	0.109523414
AC	spotted towhee	4	0.015873016	-4.143134726	0.065764043
AC	turkey vulture	6	0.023809524	-3.737669618	0.088992134
AC	white-crowned sparrow	6	0.023809524	-3.737669618	0.088992134
AC	wren	6	0.023809524	-3.737669618	0.088992134
AD	American kestrel	2	0.007142857	-4.941642423	0.035297446
AD	Anna's hummingbird	3	0.010714286	-4.536177315	0.0486019
AD	Bell's sparrow	1	0.003571429	-5.634789603	0.020124249
AD	Bewick's wren	5	0.017857143	-4.025351691	0.07188128
AD	black-chinned sparrow	1	0.003571429	-5.634789603	0.020124249
AD	black-throated sparrow	1	0.003571429	-5.634789603	0.020124249
AD	blue-gray gnatcatcher	1	0.003571429	-5.634789603	0.020124249
AD	bushtit	21	0.075	-2.590267165	0.194270037
AD	California scrub-jay	34	0.121428571	-2.108429079	0.256023531
AD	California thrasher	10	0.035714286	-3.33220451	0.119007304
AD	California towhee	3	0.010714286	-4.536177315	0.0486019
AD	Cassin's kingbird	1	0.003571429	-5.634789603	0.020124249
AD	common raven	110	0.392857143	-0.934309237	0.367050058
AD	Cooper's hawk	1	0.003571429	-5.634789603	0.020124249
AD	dark-eyed junco	1	0.003571429	-5.634789603	0.020124249
AD	golden eagle	1	0.003571429	-5.634789603	0.020124249
AD	house finch	14	0.05	-2.995732274	0.149786614
AD	lazuli bunting	3	0.010714286	-4.536177315	0.0486019

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
AD	lesser goldfinch	6	0.021428571	-3.843030134	0.082350646
AD	lesser nighthawk	1	0.003571429	-5.634789603	0.020124249
AD	mourning dove	4	0.014285714	-4.248495242	0.060692789
AD	northern flicker	2	0.007142857	-4.941642423	0.035297446
AD	northern mockingbird	1	0.003571429	-5.634789603	0.020124249
AD	Nuttall's woodpecker	2	0.007142857	-4.941642423	0.035297446
AD	oak titmouse	1	0.003571429	-5.634789603	0.020124249
AD	phainopepla	2	0.007142857	-4.941642423	0.035297446
AD	red-tailed hawk	18	0.064285714	-2.744417845	0.176426861
AD	Say's phoebe	2	0.007142857	-4.941642423	0.035297446
AD	song sparrow	1	0.003571429	-5.634789603	0.020124249
AD	spotted towhee	3	0.010714286	-4.536177315	0.0486019
AD	turkey vulture	12	0.042857143	-3.149882953	0.134994984
AD	western bluebird	4	0.014285714	-4.248495242	0.060692789
AD	white-crowned sparrow	2	0.007142857	-4.941642423	0.035297446
AD	wren	6	0.021428571	-3.843030134	0.082350646
H	acorn woodpecker	2	0.00660066	-5.020585625	0.033139179
H	Bell's sparrow	6	0.01980198	-3.921973336	0.077662838
H	Bewick's wren	5	0.01650165	-4.104294893	0.067727638
H	bushtit	3	0.00990099	-4.615120517	0.045694263
H	California quail	5	0.01650165	-4.104294893	0.067727638
H	California scrub-jay	35	0.115511551	-2.158384744	0.24931837
H	California thrasher	11	0.03630363	-3.315837533	0.12037694
H	California towhee	8	0.02640264	-3.634291264	0.095954885
H	common raven	42	0.138613861	-1.976063187	0.273909749
H	Cooper's hawk	1	0.00330033	-5.713732806	0.018857204
H	dark-eyed junco	22	0.072607261	-2.622690352	0.190426362
H	house finch	5	0.01650165	-4.104294893	0.067727638
H	Lawrence's goldfinch	16	0.052805281	-2.941144083	0.155307938
H	lazuli bunting	4	0.01320132	-4.327438444	0.0571279
H	lesser goldfinch	21	0.069306931	-2.669210368	0.184994778
H	lesser nighthawk	2	0.00660066	-5.020585625	0.033139179
H	mourning dove	4	0.01320132	-4.327438444	0.0571279
H	northern flicker	6	0.01980198	-3.921973336	0.077662838
H	northern mockingbird	4	0.01320132	-4.327438444	0.0571279
H	northern rough-winged swallow	1	0.00330033	-5.713732806	0.018857204

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
H	red-tailed hawk	10	0.0330033	-3.411147713	0.112579132
H	song sparrow	2	0.00660066	-5.020585625	0.033139179
H	spotted towhee	10	0.0330033	-3.411147713	0.112579132
H	Swainson's hawk	1	0.00330033	-5.713732806	0.018857204
H	turkey vulture	21	0.069306931	-2.669210368	0.184994778
H	white-crowned sparrow	34	0.112211221	-2.187372281	0.245447715
H	white-throated swift	2	0.00660066	-5.020585625	0.033139179
H	wrenit	20	0.066006601	-2.718000532	0.179405976
I	acorn woodpecker	3	0.005119454	-5.274707501	0.027003622
I	Allen's/rufous hummingbird	1	0.001706485	-6.37331979	0.010875972
I	American crow	1	0.001706485	-6.37331979	0.010875972
I	Anna's hummingbird	1	0.001706485	-6.37331979	0.010875972
I	Bewick's wren	12	0.020477816	-3.88841314	0.079626208
I	black-chinned sparrow	5	0.008532423	-4.763881877	0.040647456
I	black-headed grosbeak	5	0.008532423	-4.763881877	0.040647456
I	black-throated sparrow	1	0.001706485	-6.37331979	0.010875972
I	bushtit	7	0.011945392	-4.427409641	0.052887146
I	California quail	7	0.011945392	-4.427409641	0.052887146
I	California scrub-jay	57	0.097269625	-2.330268522	0.226664344
I	California thrasher	22	0.037542662	-3.282277336	0.123225429
I	California towhee	34	0.058020478	-2.846959265	0.165181937
I	canyon wren	3	0.005119454	-5.274707501	0.027003622
I	common raven	92	0.156996587	-1.851531213	0.290684081
I	Costa's hummingbird	1	0.001706485	-6.37331979	0.010875972
I	dark-eyed junco	11	0.018771331	-3.975424517	0.07462401
I	house finch	11	0.018771331	-3.975424517	0.07462401
I	Lawrence's goldfinch	10	0.017064846	-4.070734697	0.069466462
I	lazuli bunting	2	0.003412969	-5.680172609	0.019386255
I	lesser goldfinch	14	0.023890785	-3.73426246	0.089214462
I	northern flicker	9	0.015358362	-4.176095212	0.064137981
I	northern mockingbird	4	0.006825939	-4.987025428	0.034041129
I	oak titmouse	3	0.005119454	-5.274707501	0.027003622
I	phainopepla	7	0.011945392	-4.427409641	0.052887146
I	red-tailed hawk	23	0.039249147	-3.237825574	0.127081891
I	spotted towhee	173	0.295221843	-1.220028195	0.360178972
I	turkey vulture	43	0.07337884	-2.612119674	0.191674311

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
I	white-crowned sparrow	3	0.005119454	-5.274707501	0.027003622
I	white-throated swift	1	0.001706485	-6.37331979	0.010875972
I	wrentit	20	0.034129693	-3.377587516	0.115276024
K	acorn woodpecker	1	0.002849003	-5.860786223	0.016697397
K	Anna's hummingbird	1	0.002849003	-5.860786223	0.016697397
K	ash-throated flycatcher	1	0.002849003	-5.860786223	0.016697397
K	Bell's sparrow	2	0.005698006	-5.167639043	0.029445237
K	Bewick's wren	2	0.005698006	-5.167639043	0.029445237
K	black-chinned sparrow	5	0.014245014	-4.251348311	0.060560517
K	black-headed grosbeak	3	0.008547009	-4.762173935	0.040702341
K	blue-gray gnatcatcher	1	0.002849003	-5.860786223	0.016697397
K	bushy tit	3	0.008547009	-4.762173935	0.040702341
K	California scrub-jay	21	0.05982906	-2.816263786	0.168494415
K	California thrasher	8	0.022792023	-3.781344682	0.086184494
K	California towhee	18	0.051282051	-2.970414466	0.152328947
K	cliff swallow	4	0.011396011	-4.474491862	0.05099136
K	common raven	72	0.205128205	-1.584120104	0.324947714
K	Cooper's hawk	1	0.002849003	-5.860786223	0.016697397
K	Costa's hummingbird	1	0.002849003	-5.860786223	0.016697397
K	dark-eyed junco	20	0.056980057	-2.86505395	0.163250937
K	house finch	17	0.048433048	-3.027572879	0.146634584
K	Lawrence's goldfinch	30	0.085470085	-2.459588842	0.210221269
K	lazuli bunting	9	0.025641026	-3.663561646	0.093937478
K	lesser goldfinch	31	0.088319088	-2.426799019	0.214332677
K	mourning dove	2	0.005698006	-5.167639043	0.029445237
K	northern flicker	2	0.005698006	-5.167639043	0.029445237
K	northern mockingbird	2	0.005698006	-5.167639043	0.029445237
K	red-tailed hawk	34	0.096866097	-2.334425699	0.226126706
K	sharp-shinned hawk	1	0.002849003	-5.860786223	0.016697397
K	song sparrow	1	0.002849003	-5.860786223	0.016697397
K	spotted towhee	6	0.017094017	-4.069026754	0.069556013
K	turkey vulture	19	0.054131054	-2.916347244	0.157864951
K	white-crowned sparrow	20	0.056980057	-2.86505395	0.163250937
K	wrentit	12	0.034188034	-3.375879574	0.115414686
K	yellow-rumped warbler	1	0.002849003	-5.860786223	0.016697397
L	American crow	1	0.002538071	-5.976350909	0.015168403

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
L	American kestrel	4	0.010152284	-4.590056548	0.046599559
L	ash-throated flycatcher	1	0.002538071	-5.976350909	0.015168403
L	Bell's sparrow	10	0.025380711	-3.673765816	0.093242787
L	Bewick's wren	6	0.015228426	-4.18459144	0.063724743
L	black-chinned sparrow	1	0.002538071	-5.976350909	0.015168403
L	blue-gray gnatcatcher	2	0.005076142	-5.283203729	0.026818293
L	bushtit	49	0.124365482	-2.084530611	0.259243655
L	California quail	15	0.038071066	-3.268300708	0.124427692
L	California scrub-jay	29	0.073604061	-2.609055079	0.192037049
L	California thrasher	11	0.027918782	-3.578455636	0.099906122
L	California towhee	16	0.040609137	-3.203762187	0.130102018
L	common raven	86	0.218274112	-1.522003613	0.332213987
L	dark-eyed junco	4	0.010152284	-4.590056548	0.046599559
L	hooded oriole	2	0.005076142	-5.283203729	0.026818293
L	house finch	13	0.032994924	-3.411401552	0.112558934
L	lark sparrow	2	0.005076142	-5.283203729	0.026818293
L	Lawrence's goldfinch	5	0.012690355	-4.366912997	0.055417678
L	lazuli bunting	6	0.015228426	-4.18459144	0.063724743
L	lesser goldfinch	5	0.012690355	-4.366912997	0.055417678
L	lesser nighthawk	2	0.005076142	-5.283203729	0.026818293
L	merlin	2	0.005076142	-5.283203729	0.026818293
L	mourning dove	5	0.012690355	-4.366912997	0.055417678
L	northern flicker	2	0.005076142	-5.283203729	0.026818293
L	northern mockingbird	1	0.002538071	-5.976350909	0.015168403
L	phainopepla	6	0.015228426	-4.18459144	0.063724743
L	red-tailed hawk	25	0.063451777	-2.757475084	0.174966693
L	ruby-crowned kinglet	2	0.005076142	-5.283203729	0.026818293
L	song sparrow	1	0.002538071	-5.976350909	0.015168403
L	spotted towhee	28	0.07106599	-2.644146399	0.187908881
L	turkey vulture	23	0.058375635	-2.840856693	0.165836812
L	western bluebird	4	0.010152284	-4.590056548	0.046599559
L	white-crowned sparrow	15	0.038071066	-3.268300708	0.124427692
L	wrentit	8	0.020304569	-3.896909368	0.079125063
L	yellow-rumped warbler	2	0.005076142	-5.283203729	0.026818293
M	Anna's hummingbird	1	0.003021148	-5.802118375	0.017529059
M	ash-throated flycatcher	1	0.003021148	-5.802118375	0.017529059

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
M	Bell's sparrow	12	0.036253776	-3.317211726	0.120261452
M	Bewick's wren	4	0.012084592	-4.415824014	0.053363432
M	black-chinned sparrow	2	0.006042296	-5.108971195	0.030869917
M	blue-gray gnatcatcher	1	0.003021148	-5.802118375	0.017529059
M	bushtit	11	0.033232628	-3.404223103	0.113131281
M	California scrub-jay	12	0.036253776	-3.317211726	0.120261452
M	California thrasher	2	0.006042296	-5.108971195	0.030869917
M	California towhee	7	0.021148036	-3.856208226	0.081551231
M	common raven	155	0.468277946	-0.758693258	0.35527932
M	Cooper's hawk	1	0.003021148	-5.802118375	0.017529059
M	dark-eyed junco	5	0.01510574	-4.192680463	0.063333542
M	horned lark	2	0.006042296	-5.108971195	0.030869917
M	house finch	6	0.018126888	-4.010358906	0.072695328
M	house sparrow	1	0.003021148	-5.802118375	0.017529059
M	Lawrence's goldfinch	10	0.03021148	-3.499533282	0.105726081
M	lazuli bunting	7	0.021148036	-3.856208226	0.081551231
M	lesser goldfinch	14	0.042296073	-3.163061046	0.133785059
M	loggerhead shrike	1	0.003021148	-5.802118375	0.017529059
M	merlin	1	0.003021148	-5.802118375	0.017529059
M	mourning dove	1	0.003021148	-5.802118375	0.017529059
M	northern flicker	1	0.003021148	-5.802118375	0.017529059
M	phainopepla	2	0.006042296	-5.108971195	0.030869917
M	red-tailed hawk	25	0.075528701	-2.583242551	0.195108954
M	spotted towhee	16	0.048338369	-3.029529653	0.146442521
M	turkey vulture	22	0.066465257	-2.711075922	0.180192357
M	western kingbird	1	0.003021148	-5.802118375	0.017529059
M	white-crowned sparrow	4	0.012084592	-4.415824014	0.053363432
M	wrentit	2	0.006042296	-5.108971195	0.030869917
M	zone-tailed hawk	1	0.003021148	-5.802118375	0.017529059
N	acorn woodpecker	2	0.005089059	-5.280662431	0.0268736
N	American kestrel	1	0.002544529	-5.973809612	0.015200533
N	Anna's hummingbird	1	0.002544529	-5.973809612	0.015200533
N	ash-throated flycatcher	1	0.002544529	-5.973809612	0.015200533
N	Bewick's wren	8	0.020356234	-3.89436807	0.079274668
N	black-throated sparrow	1	0.002544529	-5.973809612	0.015200533
N	blue-gray gnatcatcher	3	0.007633588	-4.875197323	0.037215247

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
N	bushy tit	28	0.071246819	-2.641605102	0.188205961
N	California quail	4	0.010178117	-4.587515251	0.046692267
N	California scrub-jay	67	0.170483461	-1.769116992	0.301605187
N	California thrasher	17	0.043256997	-3.140596268	0.135852765
N	California towhee	11	0.027989822	-3.575914339	0.100089205
N	common raven	79	0.201017812	-1.604361759	0.32250529
N	Costa's hummingbird	1	0.002544529	-5.973809612	0.015200533
N	dark-eyed junco	12	0.030534351	-3.488902962	0.106531388
N	house finch	25	0.063613232	-2.754933787	0.175250241
N	Lawrence's goldfinch	14	0.03562341	-3.334752282	0.118795247
N	lesser goldfinch	30	0.076335878	-2.57261223	0.196382613
N	lesser nighthawk	2	0.005089059	-5.280662431	0.0268736
N	mourning dove	3	0.007633588	-4.875197323	0.037215247
N	northern flicker	5	0.012722646	-4.364371699	0.055526357
N	northern mockingbird	5	0.012722646	-4.364371699	0.055526357
N	oak titmouse	1	0.002544529	-5.973809612	0.015200533
N	phainopepla	1	0.002544529	-5.973809612	0.015200533
N	prairie falcon	1	0.002544529	-5.973809612	0.015200533
N	red-tailed hawk	9	0.022900763	-3.776585035	0.08648668
N	Say's phoebe	1	0.002544529	-5.973809612	0.015200533
N	sharp-shinned hawk	1	0.002544529	-5.973809612	0.015200533
N	spotted towhee	13	0.03307888	-3.408860254	0.112761281
N	tree swallow	2	0.005089059	-5.280662431	0.0268736
N	turkey vulture	12	0.030534351	-3.488902962	0.106531388
N	white-crowned sparrow	15	0.038167939	-3.265759411	0.124647306
N	white-throated swift	1	0.002544529	-5.973809612	0.015200533
N	wren tit	16	0.040712468	-3.20122089	0.130329604
O	acorn woodpecker	2	0.005208333	-5.257495372	0.027382788
O	American kestrel	2	0.005208333	-5.257495372	0.027382788
O	Bell's sparrow	3	0.0078125	-4.852030264	0.037906486
O	Bewick's wren	5	0.013020833	-4.34120464	0.056526102
O	black-chinned sparrow	2	0.005208333	-5.257495372	0.027382788
O	black-throated sparrow	4	0.010416667	-4.564348191	0.047545294
O	blue-gray gnatcatcher	1	0.002604167	-5.950642553	0.015496465
O	bushy tit	2	0.005208333	-5.257495372	0.027382788
O	California quail	3	0.0078125	-4.852030264	0.037906486

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
O	California scrub-jay	36	0.09375	-2.367123614	0.221917839
O	California thrasher	19	0.049479167	-3.006203573	0.148744448
O	California towhee	6	0.015625	-4.158883083	0.064982548
O	Cassin's finch	1	0.002604167	-5.950642553	0.015496465
O	common raven	124	0.322916667	-1.130360987	0.365012402
O	Cooper's hawk	4	0.010416667	-4.564348191	0.047545294
O	dark-eyed junco	5	0.013020833	-4.34120464	0.056526102
O	house finch	33	0.0859375	-2.454134991	0.210902226
O	Lawrence's goldfinch	22	0.057291667	-2.859600099	0.163831256
O	lazuli bunting	2	0.005208333	-5.257495372	0.027382788
O	lesser goldfinch	18	0.046875	-3.060270795	0.143450194
O	mourning dove	1	0.002604167	-5.950642553	0.015496465
O	northern flicker	1	0.002604167	-5.950642553	0.015496465
O	northern mockingbird	6	0.015625	-4.158883083	0.064982548
O	oak titmouse	4	0.010416667	-4.564348191	0.047545294
O	prairie falcon	1	0.002604167	-5.950642553	0.015496465
O	red-tailed hawk	22	0.057291667	-2.859600099	0.163831256
O	sharp-shinned hawk	1	0.002604167	-5.950642553	0.015496465
O	song sparrow	2	0.005208333	-5.257495372	0.027382788
O	spotted towhee	3	0.0078125	-4.852030264	0.037906486
O	turkey vulture	17	0.044270833	-3.117429209	0.138011189
O	white-crowned sparrow	21	0.0546875	-2.906120115	0.158928444
O	white-throated swift	2	0.005208333	-5.257495372	0.027382788
O	wrentit	9	0.0234375	-3.753417975	0.087970734
P	American crow	3	0.005859375	-5.139712336	0.030115502
P	Anna's hummingbird	5	0.009765625	-4.628886713	0.045203972
P	Bewick's wren	12	0.0234375	-3.753417975	0.087970734
P	black-throated gray warbler	1	0.001953125	-6.238324625	0.012184228
P	blue-gray gnatcatcher	2	0.00390625	-5.545177444	0.021660849
P	bush tit	6	0.01171875	-4.446565156	0.052108185
P	California quail	1	0.001953125	-6.238324625	0.012184228
P	California scrub-jay	40	0.078125	-2.549445171	0.199175404
P	California thrasher	7	0.013671875	-4.292414476	0.058685354
P	California towhee	21	0.041015625	-3.193802187	0.130995793
P	common raven	237	0.462890625	-0.770264484	0.356548208
P	Cooper's hawk	2	0.00390625	-5.545177444	0.021660849

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
P	dark-eyed junco	16	0.03125	-3.465735903	0.108304247
P	fox sparrow	2	0.00390625	-5.545177444	0.021660849
P	house finch	7	0.013671875	-4.292414476	0.058685354
P	lark sparrow	1	0.001953125	-6.238324625	0.012184228
P	lazuli bunting	3	0.005859375	-5.139712336	0.030115502
P	lesser goldfinch	13	0.025390625	-3.673375268	0.093269294
P	mourning dove	1	0.001953125	-6.238324625	0.012184228
P	northern flicker	8	0.015625	-4.158883083	0.064982548
P	northern mockingbird	1	0.001953125	-6.238324625	0.012184228
P	Nuttall's woodpecker	1	0.001953125	-6.238324625	0.012184228
P	oak titmouse	4	0.0078125	-4.852030264	0.037906486
P	phainopepla	2	0.00390625	-5.545177444	0.021660849
P	pine siskin	5	0.009765625	-4.628886713	0.045203972
P	red-shouldered hawk	1	0.001953125	-6.238324625	0.012184228
P	red-tailed hawk	46	0.08984375	-2.409683229	0.216494978
P	rock wren	2	0.00390625	-5.545177444	0.021660849
P	song sparrow	1	0.001953125	-6.238324625	0.012184228
P	spotted towhee	16	0.03125	-3.465735903	0.108304247
P	turkey vulture	16	0.03125	-3.465735903	0.108304247
P	western bluebird	8	0.015625	-4.158883083	0.064982548
P	western kingbird	1	0.001953125	-6.238324625	0.012184228
P	white-crowned sparrow	18	0.03515625	-3.347952867	0.117701468
P	white-throated swift	1	0.001953125	-6.238324625	0.012184228
P	wrentit	1	0.001953125	-6.238324625	0.012184228
R	acorn woodpecker	2	0.003384095	-5.688668837	0.019250994
R	American kestrel	2	0.003384095	-5.688668837	0.019250994
R	Anna's hummingbird	1	0.001692047	-6.381816017	0.010798335
R	ash-throated flycatcher	2	0.003384095	-5.688668837	0.019250994
R	Bell's sparrow	1	0.001692047	-6.381816017	0.010798335
R	Bewick's wren	13	0.021996616	-3.81686666	0.08395815
R	black-chinned sparrow	1	0.001692047	-6.381816017	0.010798335
R	black-tailed gnatcatcher	2	0.003384095	-5.688668837	0.019250994
R	black-throated sparrow	3	0.005076142	-5.283203729	0.026818293
R	blue-gray gnatcatcher	3	0.005076142	-5.283203729	0.026818293
R	California quail	6	0.010152284	-4.590056548	0.046599559
R	California scrub-jay	29	0.049069374	-3.014520187	0.147920618

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
R	California thrasher	10	0.016920474	-4.079230924	0.06902252
R	California towhee	24	0.040609137	-3.203762187	0.130102018
R	common raven	312	0.527918782	-0.63881283	0.337241291
R	Cooper's hawk	5	0.008460237	-4.772378105	0.040375449
R	dark-eyed junco	4	0.00676819	-4.995521656	0.033810637
R	ferruginous hawk	1	0.001692047	-6.381816017	0.010798335
R	house finch	20	0.033840948	-3.386083744	0.114588282
R	lark sparrow	1	0.001692047	-6.381816017	0.010798335
R	Lawrence's goldfinch	2	0.003384095	-5.688668837	0.019250994
R	lazuli bunting	3	0.005076142	-5.283203729	0.026818293
R	lesser goldfinch	18	0.030456853	-3.49144426	0.106338404
R	mourning dove	6	0.010152284	-4.590056548	0.046599559
R	northern flicker	1	0.001692047	-6.381816017	0.010798335
R	northern mockingbird	6	0.010152284	-4.590056548	0.046599559
R	oak titmouse	2	0.003384095	-5.688668837	0.019250994
R	phainopepla	4	0.00676819	-4.995521656	0.033810637
R	prairie falcon	1	0.001692047	-6.381816017	0.010798335
R	red-shouldered hawk	1	0.001692047	-6.381816017	0.010798335
R	red-tailed hawk	44	0.074450085	-2.597626383	0.193393504
R	spotted towhee	8	0.013536379	-4.302374476	0.058238572
R	turkey vulture	26	0.043993232	-3.123719479	0.137422515
R	white-crowned sparrow	6	0.010152284	-4.590056548	0.046599559
R	white-throated swift	8	0.013536379	-4.302374476	0.058238572
R	wrentit	13	0.021996616	-3.81686666	0.08395815
S	Anna's hummingbird	1	0.001901141	-6.265301213	0.011911219
S	ash-throated flycatcher	1	0.001901141	-6.265301213	0.011911219
S	Bewick's wren	14	0.02661597	-3.626243883	0.096515997
S	black-chinned sparrow	3	0.005703422	-5.166688924	0.029467808
S	black-headed grosbeak	2	0.003802281	-5.572154032	0.021186897
S	black-throated sparrow	2	0.003802281	-5.572154032	0.021186897
S	blue-gray gnatcatcher	2	0.003802281	-5.572154032	0.021186897
S	bush tit	2	0.003802281	-5.572154032	0.021186897
S	California scrub-jay	29	0.05513308	-2.898005383	0.159775962
S	California thrasher	17	0.032319392	-3.432087869	0.110922992
S	California towhee	44	0.08365019	-2.481111579	0.207545455
S	common raven	159	0.302281369	-1.196397011	0.361648526

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
S	Cooper's hawk	2	0.003802281	-5.572154032	0.021186897
S	Costa's hummingbird	1	0.001901141	-6.265301213	0.011911219
S	dark-eyed junco	10	0.019011407	-3.96271612	0.075336808
S	ferruginous hawk	1	0.001901141	-6.265301213	0.011911219
S	greater roadrunner	1	0.001901141	-6.265301213	0.011911219
S	house finch	14	0.02661597	-3.626243883	0.096515997
S	lazuli bunting	6	0.011406844	-4.473541744	0.051028993
S	lesser goldfinch	10	0.019011407	-3.96271612	0.075336808
S	mourning dove	7	0.013307985	-4.319391064	0.057482391
S	northern flicker	9	0.017110266	-4.068076635	0.069605874
S	Nuttall's woodpecker	1	0.001901141	-6.265301213	0.011911219
S	oak titmouse	1	0.001901141	-6.265301213	0.011911219
S	phainopepla	7	0.013307985	-4.319391064	0.057482391
S	red-tailed hawk	40	0.076045627	-2.576421759	0.195925609
S	rock pigeon (rock dove)	15	0.02851711	-3.557251012	0.101442519
S	rock wren	1	0.001901141	-6.265301213	0.011911219
S	song sparrow	1	0.001901141	-6.265301213	0.011911219
S	spotted towhee	13	0.024714829	-3.700351855	0.091453563
S	tricolored blackbird	50	0.095057034	-2.353278207	0.223695647
S	turkey vulture	24	0.045627376	-3.087247382	0.140862998
S	western bluebird	6	0.011406844	-4.473541744	0.051028993
S	white-crowned sparrow	16	0.030418251	-3.49271249	0.106242205
S	white-throated swift	5	0.009505703	-4.6558633	0.044257256
S	wrentit	9	0.017110266	-4.068076635	0.069605874
U	Allen's hummingbird	2	0.004395604	-5.427150238	0.023855605
U	American kestrel	3	0.006593407	-5.02168513	0.033110012
U	Anna's hummingbird	4	0.008791209	-4.734003058	0.041617609
U	ash-throated flycatcher	1	0.002197802	-6.120297419	0.013451203
U	Bewick's wren	11	0.024175824	-3.722402146	0.08999214
U	black-chinned sparrow	6	0.013186813	-4.32853795	0.057079621
U	black-throated sparrow	2	0.004395604	-5.427150238	0.023855605
U	bushtit	30	0.065934066	-2.719100037	0.179281321
U	California scrub-jay	39	0.085714286	-2.456735773	0.210577352
U	California thrasher	9	0.01978022	-3.923072842	0.077599243
U	California towhee	63	0.138461538	-1.977162693	0.273760988
U	canyon wren	1	0.002197802	-6.120297419	0.013451203

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
U	Cassin's kingbird	1	0.002197802	-6.120297419	0.013451203
U	common raven	118	0.259340659	-1.349612794	0.350009472
U	Cooper's hawk	1	0.002197802	-6.120297419	0.013451203
U	Costa's hummingbird	3	0.006593407	-5.02168513	0.033110012
U	dark-eyed junco	7	0.015384615	-4.17438727	0.064221343
U	ferruginous hawk	1	0.002197802	-6.120297419	0.013451203
U	greater roadrunner	1	0.002197802	-6.120297419	0.013451203
U	house finch	9	0.01978022	-3.923072842	0.077599243
U	lark sparrow	2	0.004395604	-5.427150238	0.023855605
U	lazuli bunting	6	0.013186813	-4.32853795	0.057079621
U	lesser goldfinch	2	0.004395604	-5.427150238	0.023855605
U	mourning dove	2	0.004395604	-5.427150238	0.023855605
U	northern flicker	1	0.002197802	-6.120297419	0.013451203
U	northern mockingbird	1	0.002197802	-6.120297419	0.013451203
U	Pacific-slope flycatcher	1	0.002197802	-6.120297419	0.013451203
U	phainopepla	8	0.017582418	-4.040855877	0.071048015
U	red-shouldered hawk	1	0.002197802	-6.120297419	0.013451203
U	red-tailed hawk	23	0.050549451	-2.984803203	0.150880162
U	rock pigeon (rock dove)	7	0.015384615	-4.17438727	0.064221343
U	rock wren	2	0.004395604	-5.427150238	0.023855605
U	spotted towhee	13	0.028571429	-3.555348061	0.101581373
U	Townsend's warbler	1	0.002197802	-6.120297419	0.013451203
U	turkey vulture	31	0.068131868	-2.686310214	0.183023333
U	Vaux's swift	7	0.015384615	-4.17438727	0.064221343
U	white-crowned sparrow	20	0.043956044	-3.124565145	0.137343523
U	white-throated swift	1	0.002197802	-6.120297419	0.013451203
U	wrentit	14	0.030769231	-3.481240089	0.10711508
V	ash-throated flycatcher	2	0.005899705	-5.132852927	0.030282318
V	Bewick's wren	2	0.005899705	-5.132852927	0.030282318
V	black-chinned sparrow	2	0.005899705	-5.132852927	0.030282318
V	black-throated sparrow	3	0.008849558	-4.727387819	0.04183529
V	blue-gray gnatcatcher	2	0.005899705	-5.132852927	0.030282318
V	bushtit	7	0.020648968	-3.880089958	0.080119852
V	California quail	1	0.002949853	-5.826000107	0.017185841
V	California scrub-jay	22	0.064896755	-2.734957654	0.177489877
V	California thrasher	12	0.03539823	-3.341093458	0.118268795

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
V	California towhee	27	0.079646018	-2.530163241	0.201517426
V	canyon wren	2	0.005899705	-5.132852927	0.030282318
V	common raven	117	0.345132743	-1.063826173	0.367161245
V	Cooper's hawk	3	0.008849558	-4.727387819	0.04183529
V	Costa's hummingbird	1	0.002949853	-5.826000107	0.017185841
V	dark-eyed junco	1	0.002949853	-5.826000107	0.017185841
V	house finch	15	0.044247788	-3.117949906	0.137962385
V	lark sparrow	2	0.005899705	-5.132852927	0.030282318
V	Lawrence's goldfinch	1	0.002949853	-5.826000107	0.017185841
V	lazuli bunting	1	0.002949853	-5.826000107	0.017185841
V	lesser goldfinch	6	0.017699115	-4.034240638	0.071402489
V	northern flicker	2	0.005899705	-5.132852927	0.030282318
V	northern harrier	1	0.002949853	-5.826000107	0.017185841
V	northern mockingbird	1	0.002949853	-5.826000107	0.017185841
V	phainopepla	5	0.014749263	-4.216562195	0.062191183
V	red-shouldered hawk	1	0.002949853	-5.826000107	0.017185841
V	red-tailed hawk	36	0.10619469	-2.242481169	0.238139593
V	rock pigeon (rock dove)	12	0.03539823	-3.341093458	0.118268795
V	rock wren	4	0.01179941	-4.439705746	0.052385909
V	sharp-shinned hawk	1	0.002949853	-5.826000107	0.017185841
V	spotted towhee	11	0.032448378	-3.428104835	0.11123644
V	turkey vulture	16	0.04719764	-3.053411385	0.144113812
V	white-crowned sparrow	14	0.041297935	-3.186942778	0.131614156
V	wrentit	6	0.017699115	-4.034240638	0.071402489
W	acorn woodpecker	2	0.003546099	-5.641907071	0.020006763
W	American kestrel	2	0.003546099	-5.641907071	0.020006763
W	Anna's hummingbird	3	0.005319149	-5.236441963	0.027853415
W	ash-throated flycatcher	1	0.00177305	-6.335054251	0.011232366
W	Bell's sparrow	2	0.003546099	-5.641907071	0.020006763
W	Bewick's wren	6	0.010638298	-4.543294782	0.048332923
W	black-headed grosbeak	2	0.003546099	-5.641907071	0.020006763
W	bushtit	5	0.008865248	-4.725616339	0.041893762
W	California quail	2	0.003546099	-5.641907071	0.020006763
W	California scrub-jay	31	0.054964539	-2.901067047	0.159455813
W	California thrasher	6	0.010638298	-4.543294782	0.048332923
W	California towhee	18	0.031914894	-3.444682494	0.109936675

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
W	Cassin's kingbird	1	0.00177305	-6.335054251	0.011232366
W	common raven	294	0.521276596	-0.651474484	0.339598401
W	Cooper's hawk	3	0.005319149	-5.236441963	0.027853415
W	dark-eyed junco	8	0.014184397	-4.25561271	0.060363301
W	house finch	31	0.054964539	-2.901067047	0.159455813
W	ladder-backed woodpecker	1	0.00177305	-6.335054251	0.011232366
W	lark sparrow	2	0.003546099	-5.641907071	0.020006763
W	Lawrence's goldfinch	4	0.007092199	-4.94875989	0.035097588
W	lazuli bunting	1	0.00177305	-6.335054251	0.011232366
W	lesser goldfinch	34	0.060283688	-2.808693727	0.169318416
W	lesser nighthawk	1	0.00177305	-6.335054251	0.011232366
W	merlin	1	0.00177305	-6.335054251	0.011232366
W	mourning dove	5	0.008865248	-4.725616339	0.041893762
W	northern flicker	2	0.003546099	-5.641907071	0.020006763
W	northern harrier	1	0.00177305	-6.335054251	0.011232366
W	northern mockingbird	1	0.00177305	-6.335054251	0.011232366
W	phainopepla	1	0.00177305	-6.335054251	0.011232366
W	red-shouldered hawk	1	0.00177305	-6.335054251	0.011232366
W	red-tailed hawk	26	0.046099291	-3.076957713	0.141845568
W	spotted towhee	11	0.019503546	-3.937158979	0.076788562
W	turkey vulture	28	0.04964539	-3.002849741	0.149077647
W	western bluebird	7	0.012411348	-4.389144102	0.054475193
W	western kingbird	1	0.00177305	-6.335054251	0.011232366
W	white-crowned sparrow	13	0.023049645	-3.770104894	0.086899581
W	wren tit	6	0.010638298	-4.543294782	0.048332923
X	American crow	4	0.011560694	-4.460144414	0.051562363
X	American kestrel	2	0.005780347	-5.153291594	0.029787813
X	ash-throated flycatcher	1	0.002890173	-5.846438775	0.016897222
X	Bell's sparrow	1	0.002890173	-5.846438775	0.016897222
X	Bewick's wren	2	0.005780347	-5.153291594	0.029787813
X	bushtit	5	0.014450867	-4.237000863	0.061228336
X	California quail	1	0.002890173	-5.846438775	0.016897222
X	California scrub-jay	16	0.046242775	-3.073850053	0.142143355
X	California thrasher	8	0.023121387	-3.766997233	0.087098202
X	California towhee	6	0.01734104	-4.054679306	0.070312358
X	common raven	143	0.413294798	-0.883594145	0.365184863

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
X	Cooper's hawk	1	0.002890173	-5.846438775	0.016897222
X	dark-eyed junco	2	0.005780347	-5.153291594	0.029787813
X	house finch	27	0.078034682	-2.550601909	0.199035409
X	ladder-backed woodpecker	1	0.002890173	-5.846438775	0.016897222
X	lark sparrow	1	0.002890173	-5.846438775	0.016897222
X	Lawrence's goldfinch	6	0.01734104	-4.054679306	0.070312358
X	lazuli bunting	2	0.005780347	-5.153291594	0.029787813
X	lesser goldfinch	31	0.089595376	-2.412451571	0.216144505
X	lesser nighthawk	4	0.011560694	-4.460144414	0.051562363
X	loggerhead shrike	1	0.002890173	-5.846438775	0.016897222
X	mourning dove	1	0.002890173	-5.846438775	0.016897222
X	northern flicker	1	0.002890173	-5.846438775	0.016897222
X	northern mockingbird	3	0.00867052	-4.747826486	0.041166126
X	phainopepla	1	0.002890173	-5.846438775	0.016897222
X	red-tailed hawk	14	0.040462428	-3.207381445	0.12977844
X	rock pigeon (rock dove)	8	0.023121387	-3.766997233	0.087098202
X	ruby-crowned kinglet	1	0.002890173	-5.846438775	0.016897222
X	spotted towhee	3	0.00867052	-4.747826486	0.041166126
X	turkey vulture	23	0.066473988	-2.710944559	0.180207297
X	violet-green swallow	2	0.005780347	-5.153291594	0.029787813
X	western bluebird	2	0.005780347	-5.153291594	0.029787813
X	western kingbird	1	0.002890173	-5.846438775	0.016897222
X	white-crowned sparrow	13	0.037572254	-3.281489418	0.123292955
X	wrentit	8	0.023121387	-3.766997233	0.087098202
Y	acorn woodpecker	2	0.005813953	-5.147494477	0.029927293
Y	American crow	4	0.011627907	-4.454347296	0.051794736
Y	Anna's hummingbird	2	0.005813953	-5.147494477	0.029927293
Y	ash-throated flycatcher	1	0.002906977	-5.840641657	0.016978609
Y	Bewick's wren	6	0.01744186	-4.04882188	0.070620038
Y	blue-gray gnatcatcher	2	0.005813953	-5.147494477	0.029927293
Y	bushtit	7	0.020348837	-3.894731508	0.079253257
Y	California quail	5	0.014534884	-4.231203745	0.061500054
Y	California scrub-jay	65	0.188953488	-1.666254387	0.314844579
Y	California thrasher	5	0.014534884	-4.231203745	0.061500054
Y	California towhee	41	0.119186047	-2.127069591	0.253517015
Y	common raven	85	0.247093023	-1.397990401	0.345433675

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
Y	Cooper's hawk	1	0.002906977	-5.840641657	0.016978609
Y	dark-eyed junco	7	0.020348837	-3.894731508	0.079253257
Y	house finch	18	0.052325581	-2.950269899	0.154374588
Y	Lawrence's goldfinch	11	0.031976744	-3.442746385	0.11008782
Y	lazuli bunting	1	0.002906977	-5.840641657	0.016978609
Y	lesser goldfinch	3	0.00872093	-4.742029369	0.041354907
Y	northern flicker	1	0.002906977	-5.840641657	0.016978609
Y	phainopepla	1	0.002906977	-5.840641657	0.016978609
Y	red-tailed hawk	14	0.040697674	-3.201584328	0.130297037
Y	song sparrow	1	0.002906977	-5.840641657	0.016978609
Y	spotted towhee	11	0.031976744	-3.442746385	0.11008782
Y	turkey vulture	21	0.061046512	-2.79611922	0.170693324
Y	western bluebird	15	0.043604651	-3.132591456	0.136595558
Y	white-crowned sparrow	8	0.023255814	-3.761200116	0.08746977
Y	wrenit	6	0.01744186	-4.04882188	0.070620038
Z	acorn woodpecker	1	0.002375297	-6.042632834	0.014353047
Z	American crow	5	0.011876485	-4.433194921	0.052650771
Z	Anna's hummingbird	3	0.007125891	-4.944020545	0.03523055
Z	Bewick's wren	15	0.035629454	-3.334582633	0.118809357
Z	black-headed grosbeak	10	0.023752969	-3.740047741	0.088837238
Z	black-throated sparrow	1	0.002375297	-6.042632834	0.014353047
Z	blue-gray gnatcatcher	4	0.009501188	-4.656338473	0.044240746
Z	Brewer's blackbird	1	0.002375297	-6.042632834	0.014353047
Z	bushitit	7	0.016627078	-4.096722685	0.068116529
Z	California quail	6	0.014251781	-4.250873364	0.060582518
Z	California scrub-jay	81	0.19239905	-1.648183679	0.317108974
Z	California thrasher	14	0.033254157	-3.403575504	0.113183033
Z	California towhee	34	0.080760095	-2.516272309	0.203214391
Z	common raven	88	0.209026128	-1.565296019	0.327187766
Z	Cooper's hawk	2	0.004750594	-5.349485653	0.025413234
Z	dark-eyed junco	16	0.038004751	-3.270044111	0.124277211
Z	greater roadrunner	1	0.002375297	-6.042632834	0.014353047
Z	house finch	9	0.021377672	-3.845408256	0.082205877
Z	lesser goldfinch	6	0.014251781	-4.250873364	0.060582518
Z	mourning dove	2	0.004750594	-5.349485653	0.025413234
Z	northern flicker	2	0.004750594	-5.349485653	0.025413234

APPENDIX I (Continued)

**Table I-1
Species and Individuals Observed**

Point Location	Species	Number of Individuals	Pi	Ln(Pi)	-Pi * Ln(Pi)
Z	northern mockingbird	3	0.007125891	-4.944020545	0.03523055
Z	oak titmouse	4	0.009501188	-4.656338473	0.044240746
Z	red-tailed hawk	12	0.028503563	-3.557726184	0.101407872
Z	rock wren	2	0.004750594	-5.349485653	0.025413234
Z	sharp-shinned hawk	1	0.002375297	-6.042632834	0.014353047
Z	spotted towhee	15	0.035629454	-3.334582633	0.118809357
Z	Townsend's warbler	1	0.002375297	-6.042632834	0.014353047
Z	turkey vulture	43	0.102137767	-2.281432718	0.233020444
Z	white-crowned sparrow	9	0.021377672	-3.845408256	0.082205877
Z	white-throated swift	6	0.014251781	-4.250873364	0.060582518
Z	wrenit	14	0.033254157	-3.403575504	0.113183033
Z	yellow-rumped warbler	3	0.007125891	-4.944020545	0.03523055

**Table I-2
Individuals Observed by Point Location**

Point Location	Total Number of Individuals Observed	Point Location	Sum of -Pi * Ln(Pi)
AA	328	AA	2.68
AB	299	AB	2.37
AC	252	AC	2.35
AD	280	AD	2.40
H	303	H	2.87
I	586	I	2.52
K	351	K	2.78
L	394	L	2.86
M	331	M	2.22
N	393	N	2.77
O	384	O	2.59
P	512	P	2.26
R	591	R	2.10
S	526	S	2.69
U	455	U	2.73
V	339	V	2.53

APPENDIX I (Continued)

Table I-2
Individuals Observed by Point Location

Point Location	Total Number of Individuals Observed	Point Location	Sum of $-P_i * \ln(P_i)$
W	564	W	2.09
X	346	X	2.39
Y	344	Y	2.52
Z	421	Z	2.71