DOCKET 09-AFC-6					
DATE	MAY 14 2010				
RECD.	MAY 20 2010				

May 14, 2010

Alan Solomon Project Manager California Energy Commission 1516 Ninth Street Sacramento, CA 95814

RE: Blythe Solar Power Project, Docket No. 09-AFC-6

Responses to Questions from the April 28, 29 and May 7, 2010 CEC Workshops Preliminary Biological Survey Results – Spring 2010 Technical Areas: Biological resources

Dear Mr. Solomon:

Attached please find the following response to questions generated at the April 28, 29, and May 7, 2010 CEC Workshops for the Blythe Solar Power Project.

If you have any questions on this submittal, please feel free to contact me directly.

Sincerely,

Alice Harron Senior Director, Development



STATE OF CALIFORNIA ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of: APPLICATION FOR CERTIFICATION for the BLYTHE SOLAR POWER PROJECT

Docket No. 09-AFC-6 PROOF OF SERVICE

(Revised 4/19/2010)

APPLICANT

Alice Harron Senior Director of Project Development 1625 Shattuck Avenue, Suite 270 Berkeley, CA 94709-1161 harron@solarmillenium.com

Elizabeth Ingram Developer, Solar Millennium LLC 1625 Shattuck Avenue, Suite 270 Berkeley, CA 94709 ingram@solarmillennium.com

APPLICANT'S CONSULTANT

Carl Lindner AECOM Project Manager 1220 Avenida Acaso Camarillo, CA 93012 carl.lindner@aecom.com

Ram Ambatipudi Chevron Energy Solutions 150 E. Colorado Blvd., Ste 360 Pasadena, CA 91105 rambatipudi@chevron.com

CO-COUNSEL FOR APPLICANT

Scott Galati, Esq. Galati/Blek, LLP 455 Capitol Mall, Suite 350 Sacramento, CA 95814 sgalati@gb-llp.com Peter Weiner Matthew Sanders Paul, Hastings, Janofsky & Walker LLP 55 2nd Street, Suite 2400-3441 San Francisco, CA 94105 peterweiner@paulhastings.com matthewsanders@paulhastings.com

INTERESTED AGENCIES

Holly L. Roberts, Project Manager Bureau of Land Management Palm Springs-South Coast Field Office 1201 Bird Center Drive Palm Springs, CA 92262 CAPSSolarPalen@blm.gov

California ISO <u>e-recipient@caiso.com</u>

INTERVENORS

California Unions for Reliable Energy (CURE) Tanya A. Gulesserian, Marc D. Joseph Adams Broadwell Joseph & Cardozo 601 Gateway Boulevard, Suite 1000 South San Francisco, CA 94080 tgulesserian@adamsbroadwell.com

ENERGY COMMISSION

Karen Douglas Chair and Presiding Member <u>kldougla@energy.state.ca.us</u>

Robert Weisenmiller Commissioner and Associate Member rweisenm@energy.state.ca.us

Raoul Renaud Hearing Officer rrenaud@energy.state.ca.us

Alan Solomon Project Manager asolomon@energy.state.ca.us

Lisa DeCarlo Staff Counsel Idecarlo@energy.state.ca.us

Public Adviser's Office publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Carl Lindner, declare that on, May 14, 2010, I served and filed copies of the attached Blythe Solar Power Project Materials:

Responses to Questions from the April 28, 29 and May 7, 2010 CEC Workshops – *Preliminary Biological Survey Results* Technical Areas: Biological Resources

The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[http://www.energy.ca.gov/sitingcases/solar_millennium_blythe].

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

For service to all other parties:

X sent electronically to all email addresses on the Proof of Service list;

_____ by personal delivery or by overnight delivery service or depositing in the United States mail at <u>Camarillo</u>, <u>California</u> with postage or fees thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

<u>X</u> sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

OR

____ depositing in the mail an original and 12 paper copies, along with 13 CDs, as follows:

CALIFORNIA ENERGY COMMISSION Attn: Docket No. 09-AFC-6 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Carl E. Lindner



AECOM 1420 Kettner Boulevard Suite 500 San Diego, CA 92101 www.aecom.com 619.233.1454 tel 619.233.0952 fax

May 14, 2010

Ms. Susan Sanders California Energy Commission 1516 Ninth Street Sacramento, California 95814

Subject: Blythe Solar Power Project (09-AFC-6) – Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for Biological Resources

Dear Ms. Sanders:

On behalf of Palo Verde Solar I, LLC, AECOM is submitting preliminary results of biological surveys conducted in spring 2010 for desert tortoise (*Gopherus agassizii*; DT), rare plants, jurisdictional waters, and incidental wildlife occurrences for the Blythe Solar Power Project. This information was requested at the Palen and Blythe Staff Workshops conducted on April 28 and 29, 2010. Additional information was also requested in a letter from Susan Sanders to Alan Solomon dated May 12, 2010.

Preliminary survey results for DT, rare plants and jurisdictional waters were submitted to the CEC on May 7, 2010. The results provided herein supersede the results provided on May 7, 2010. The previous survey results incorrectly included Coachalla Valley milk-vetch (*Astragalus lentiginosus var. coachellae*) as part of the rare plant botanical survey results. The proper identification of these occurrences is *Astragalus insularis* var. *harwoodii* (Harwood's milkvetch), a CNPS List 2.2 plant species. In addition, the results provided herein include an additional two mile segment of the gen-tie transmission line that was not previously reported. Surveys for jurisdictional waters have been completed and included herein for the additional transmission line; however, surveys for DT and rare plants are currently being conducted for this area. Therefore, the complete results of additional two mile segment of the transmission line will be provided in final technical reports to be submitted to the CEC in early June.

The preliminary survey results are presented in figures and tables attached. Table 1 and Figure 1 present a summary of observations of DT sign and DT occurrences noted during spring 2010 surveys. Table 2 and Figure 2 present the rare plant population counts observed during spring 2010 surveys. Figure 3 presents the results of a formal jurisdictional delineation of waters of the State. Table 3 and Figure 4 present incidental wildlife occurrences observed during protocol surveys for DT, rare plants, western burrowing owl, and jurisdictional waters. Results from the fall and spring 2009 surveys are not included in the tables and figures for DT, rare plants or incidental wildlife occurrences. However, the jurisdictional waters figure does include results from the 2009 surveys and a table presenting the results of both survey years is provided in the figure. Please note that the results provided in Tables 1 through 3 and Figures 1 through 4 are simply the results of our observations within the 100 percent coverage study area and associated buffers. These tables and figures do not represent total impacts within disturbance areas because we surveyed wider corridor widths and additional areas for contingency in the engineering design that ultimately will not be disturbed.

Figure 5 presents the additional disturbance areas for the temporary construction access road, transmission line corridor, utility corridor, road improvements to Black Rock Road, and additional project components that are outside the 2009 project footprint. Please note that some disturbance areas proposed in the 2009 project footprint have been removed in the 2010 project footprint. Therefore, the total Project Disturbance Area has been revised to be 6,983.9 acres. This total is still preliminary and subject to further refinement in the engineering design. A revised total disturbance area will be provided in final technical reports to be submitted to the CEC in early June.



Ms. Susan Sanders May 14, 2010 Page 2

Figure 6 presents preliminary impacts to all cover types, including state waters, resulting from the revised Project Disturbance Area. These impact calculations are still preliminary and subject to further refinement in the engineering design. Revised impact calculations will be provided in final technical reports to be submitted to the CEC in early June.

Please let us know if you have any questions.

Sincerely,

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Mr. William Graham Principal AECOM

Attachments: Table 1. Blythe Solar Power Project Desert Tortoise Observations Spring 2010 Table 2. Blythe Solar Power Project Rare Plant Populations Counts Spring 2010 Table 3. Blythe Solar Power Project Incidental Wildlife Occurrences Figure 1. Preliminary Results Desert Tortoise Spring 2010 Surveys Figure 2. Preliminary Results Botany Rare Plants Spring 2010 Surveys Figure 3. Preliminary Results State Waters Spring 2010 Surveys Figure 4. Preliminary Results Incidental Wildlife Occurrences Spring 2010 Surveys Figure 5. Preliminary Disturbance Areas May 2010 Figure 6. Preliminary Impacts to Cover Types May 2010 CD. Raw Data Files in Excel and Shapefiles

cc: Alice Harron, Solar Millennium Elizabeth Ingram, Solar Millennium Scott Galati, Solar Millennium Counsel Mark Luttrell, AECOM

Blythe Preliminary Bio Survey Results Spring 2010 letter to CEC

Table 1. Blythe Solar Power Project Desert Tortoise Observations Spring 2010

Description	Proposed Project Study Area	Reconfigured Alternative Project Study Area	Proposed Project/Reconfigured Alternative Study Area ¹	Buffer	Incidental Observations Outside Buffer Area	Grand Total
Adult Tortoise		1		2		3
Adult Tortoise - Second Observation		1				1
Active Tortoise Burrow or Pallet - Class 1		3	1	22	4	30
Tortoise Burrow or Pallet - Class 2 (good condition, no evidence of recent use)	2	4		20	1	27
Tortoise Burrow or Pallet - Class 3 (deteriorated, definitely tortoise)		5		5	3	13
Possible Tortoise Burrow or Pallet (Class 4 or 5)		13		50	9	72
Tortoise Scat		2		2	1	5
Fossilized Turtle/Tortoise Bone		1		1		2
Tortoise Bone Fragment - Mineralized	10	10		6		26
Tortoise Bone Fragment - Not Mineralized	20	22	3	17	2	64
Tortoise Carcass (not disarticulated and scattered)	1	4		5		10
Tortoise Egg Shell Fragment		3				3
Tortoise Tracks	1	3	2	1		7
Tortoise Drinking Depression		1				1

¹This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.

Species	Proposed Project Study Area	Reconfigured Alternative Project Study Area	Propose Project/Reconfigured Alternative Study Area ²	Buffer	Incidental Observations Outside Buffer Area	Grand Total
Cottontop cactus	1		5	10		16
Harwood's milkvetch	677	60	128	1,837	60	2,762
Harwood's woollystar	2,134			1,287	8	3,429
Desert unicorn	4	15	6	1		26
Ribbed cryptantha	32,367			37,377	1,909	71,653 ³
Utah milkvine	14	78	12	526		630
Winged cryptantha				15		15

Table 2. Blythe Solar Power Project Rare Plant Population Counts Spring 2010¹

¹ Note that each point on the figure may represent multiple individuals

²This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.

³ Ribbed cryptantha was observed during 2010 botanical surveys as a generally continuous population throughout the stabilized and partially stabilized desert dunes south of I-10. This number represents the total number of plants physically counted during subsampling efforts; the actual population is currently estimated in the tens of millions (a more accurate population estimate will be provided in the Botanical Survey Report).

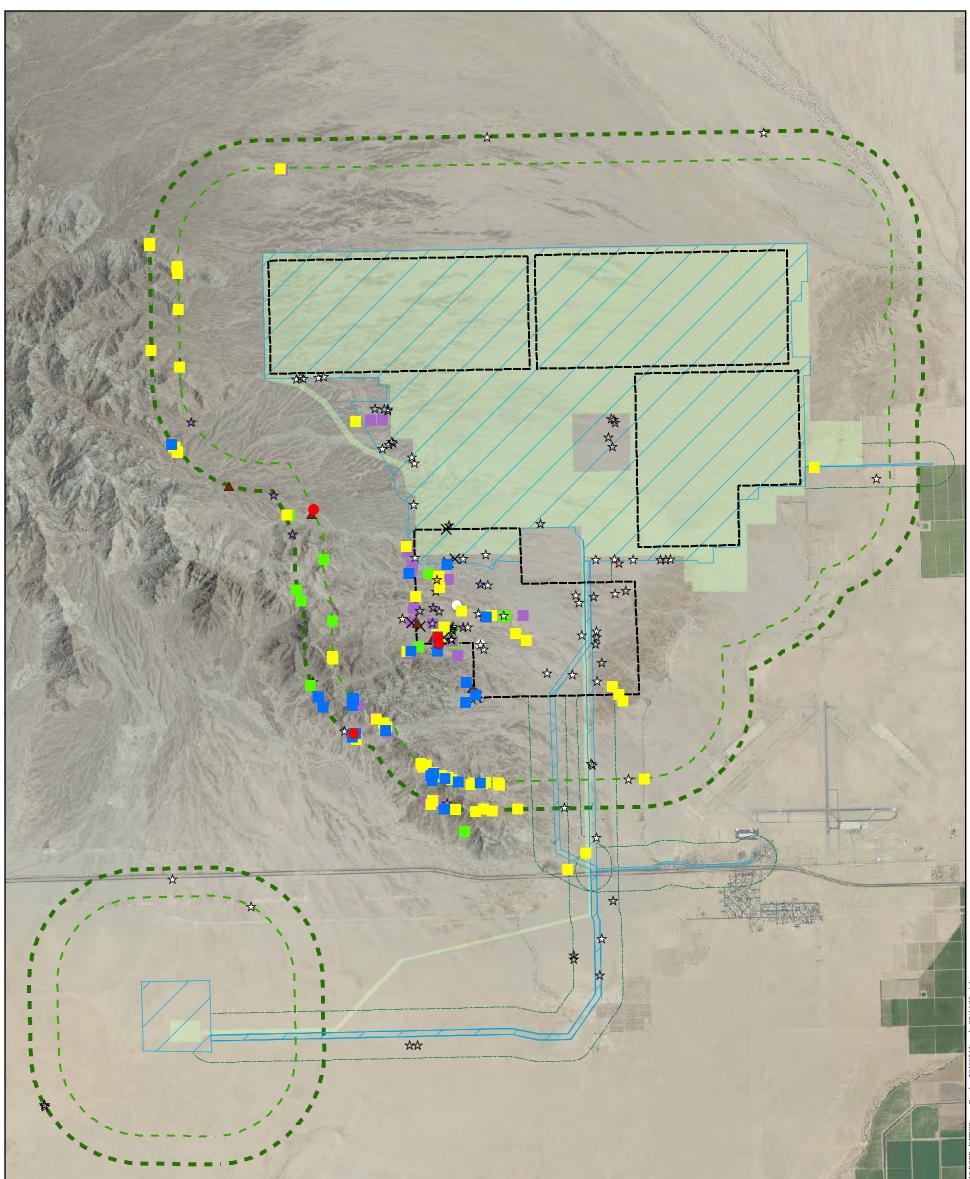


Species Observations or Sign	Project Study Area	Reconfigured Alternative Study Area ²	Buffer	Grand Total
American Badger Den	2	6		8
American Badger Predation Burrow		1	1	2
Bat Guano - Unknown Species		1		1
Cooper's Hawk			1	1
Ferruginous Hawk			1	1
Kit Fox Burrow	6	6	2	14
Kit Fox Complex	5	10	7	22
Loggerhead Shrike	2	2	6	10
Loggerhead Shrike Nest			1	1
Mojave Fringe-toed Lizard	86		48	134
Nest Cavity - Unidentified Woodpecker Species			1	1
Northern Harrier	1	1	1	3
Potential Pond for Couch's Spadefoot	3	2	9	14
Swainson's Hawk	4		5	9
Unknown Raptor Nest			1	1
Western Burrowing Owl	1	1	1	3

Table 3. Blythe Solar Power Project Incidental Wildlife Occurrences Spring 2010¹

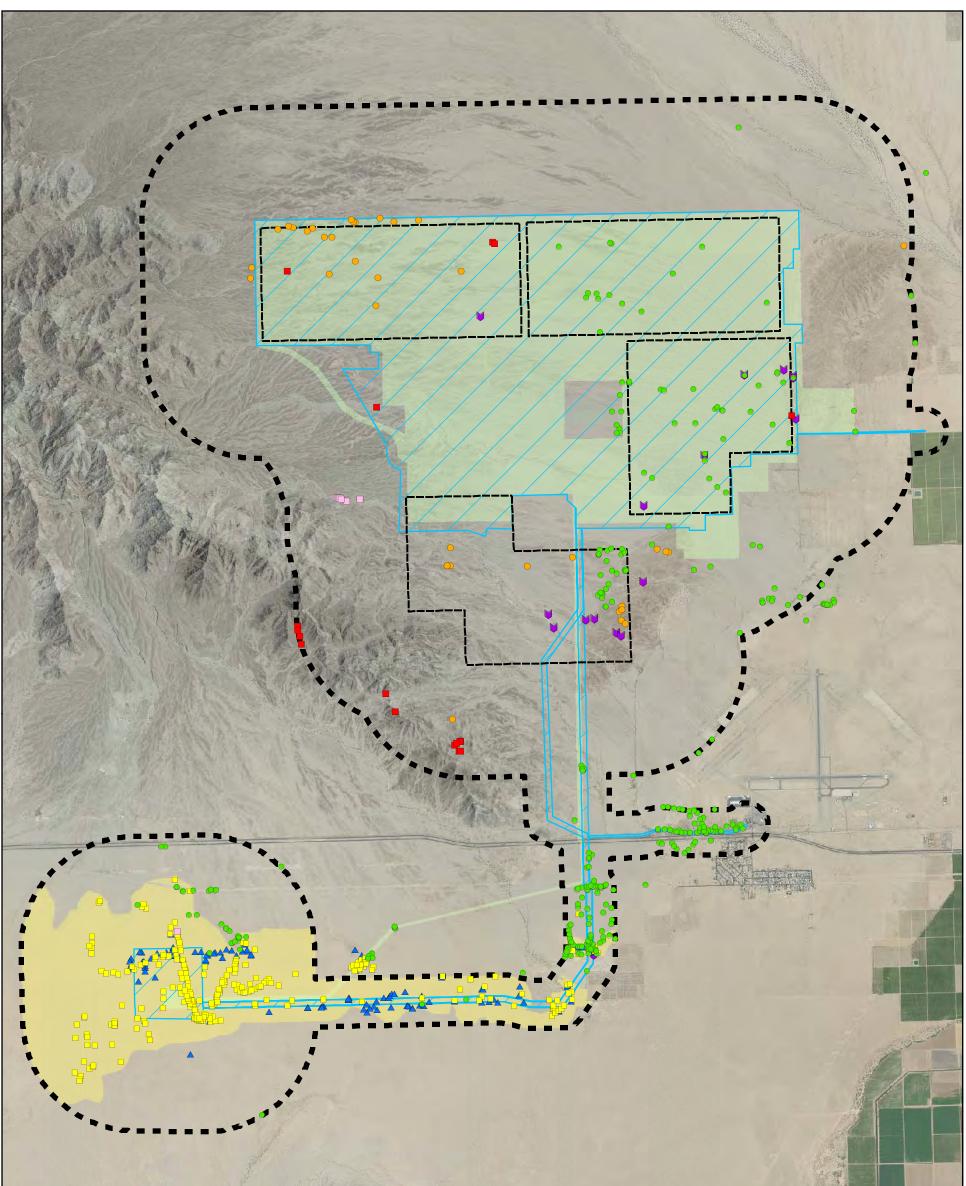
¹ These observations were noted during protocol surveys conducted for desert tortoise, rare plants, western burrowing owl, jurisdictional waters and vegetation mapping.

²This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.



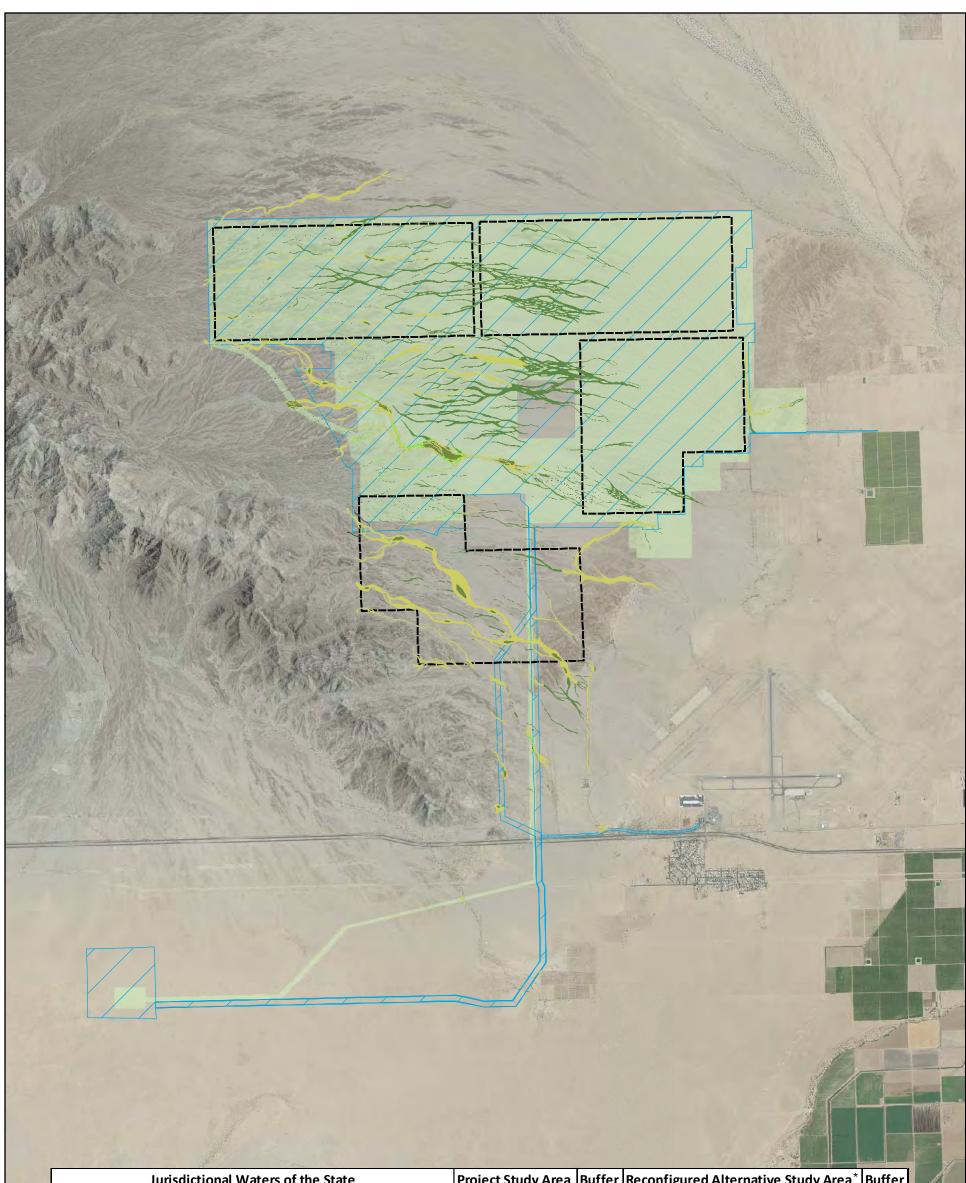
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DT Observations (Spring 2010) Adult Tortoise Adult Tortoise - Second Observation Active Tortoise Burrow or Pallet - Class 1 Tortoise Scat	X ☆ _ ☆ ☆	Tortoise TracksFossilized Turtle/Tortoise BonePossible Tortoise Burrow or Pallet (Class 4 or 5)Tortoise Bone Fragment - MineralizedTortoise Bone Fragment - Not Mineralized	Tor Tor Tor	toise Burrow or P		
Map Location Legend	-	ernative Study Area			Blythe Solar Power Project Figure 1	1 inch = 4,500 feet
	ı (Sur	reyed in 2009)			Preliminary Results Desert Tortoise	AECOM
	4,500	9,000 Feet			Spring 2010 Surveys Source: NAIP 2009; AECOM 2010	Date: May 2010

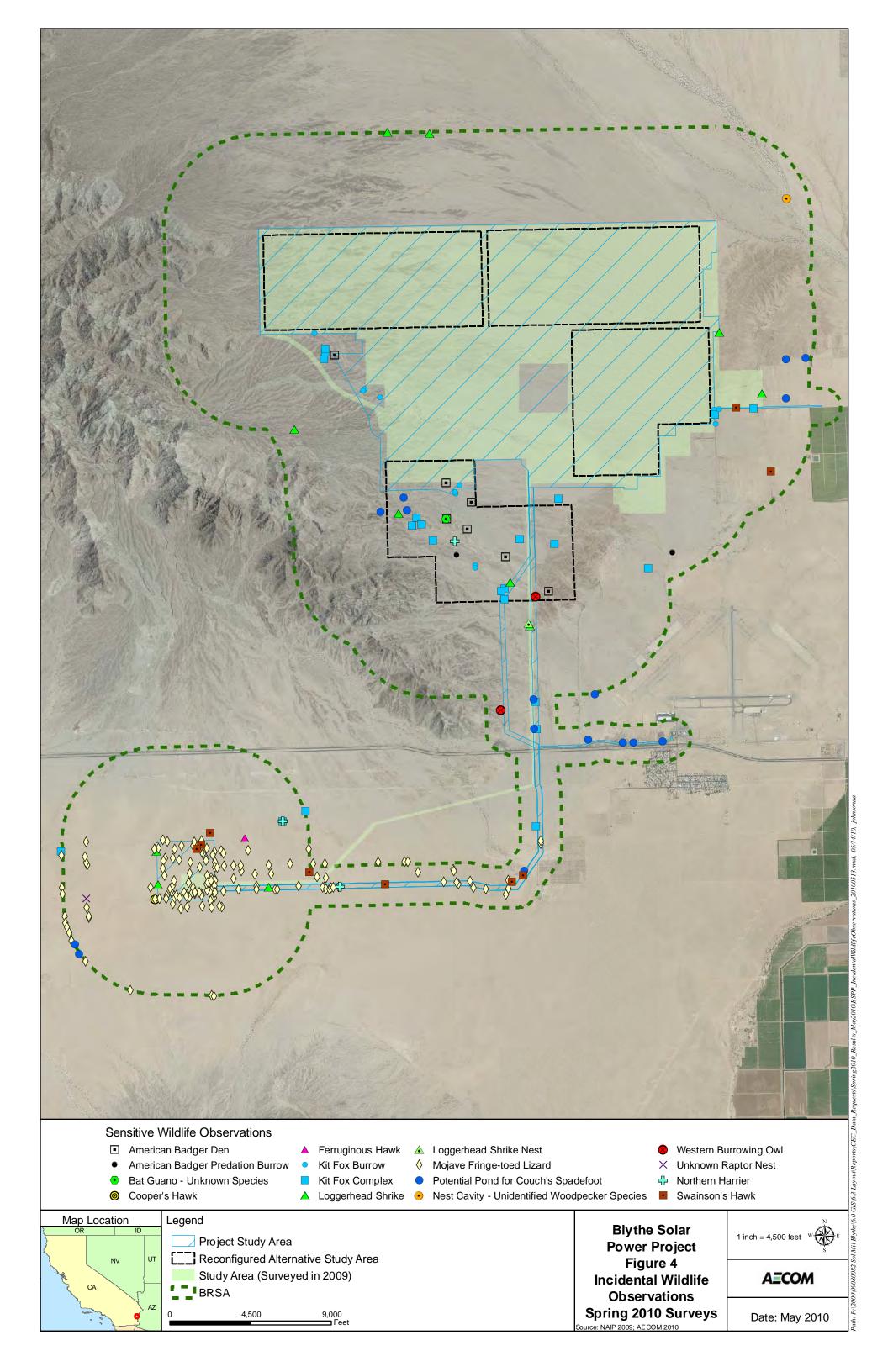


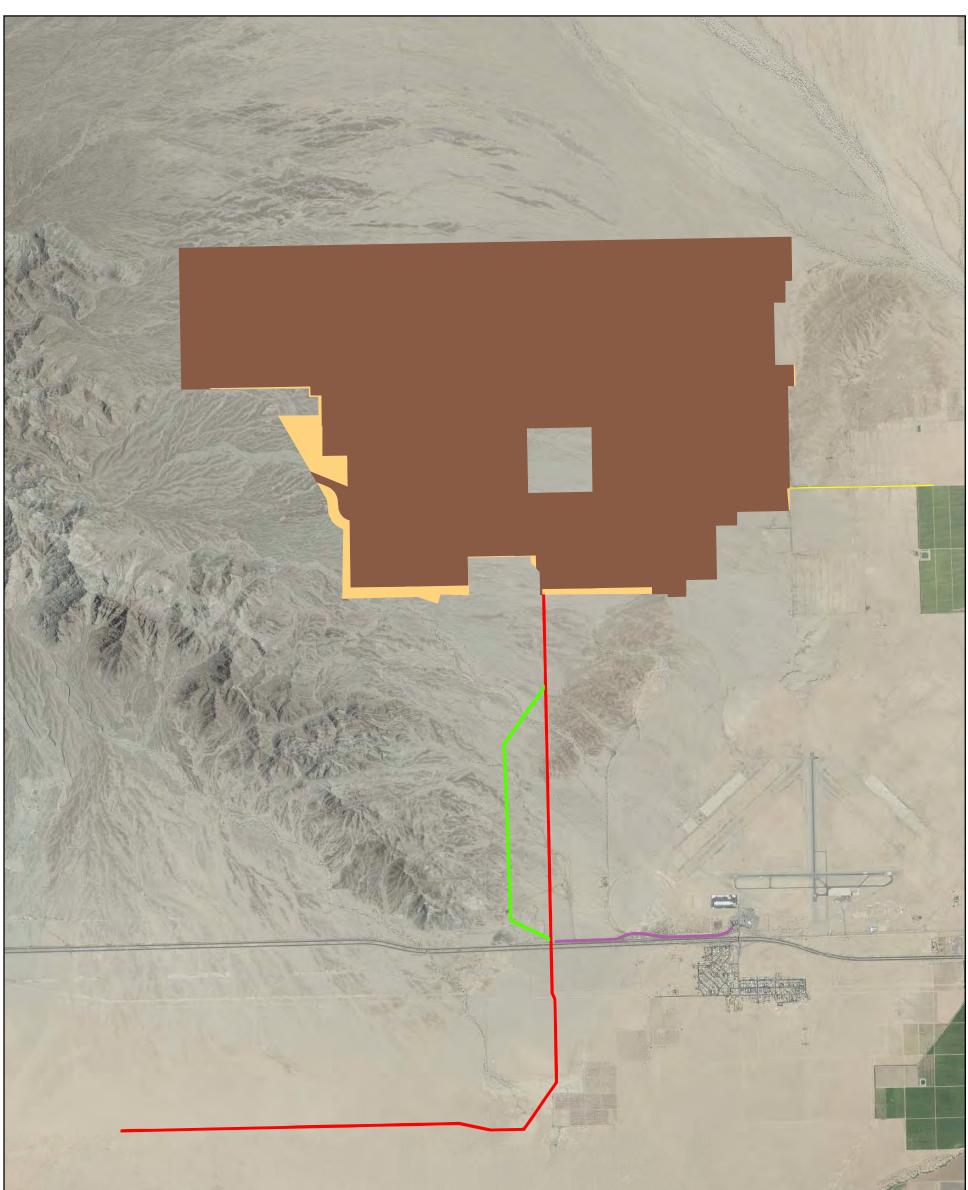
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Rare Plant Observations Winged cryptantha Utah milkvine Ribbed cryptantha Cottontop cactus Harwood's woollystar Ribbed cryptantha occupied habitat Desert unicorn Harwood's milkvetch		
Map Location Legend	Blythe Solar Power Project	1 inch = 4,500 feet $W \bigoplus_{S}^{N} E$
CA VI UT Project Study Area Study Area (Surveyed in 2009)	Figure 2 Preliminary Results Botany Rare Plants	AECOM
AZ 4,500 9,000 Feet	Source: NAIP 2009; AECOM 2010	Date: May 2010

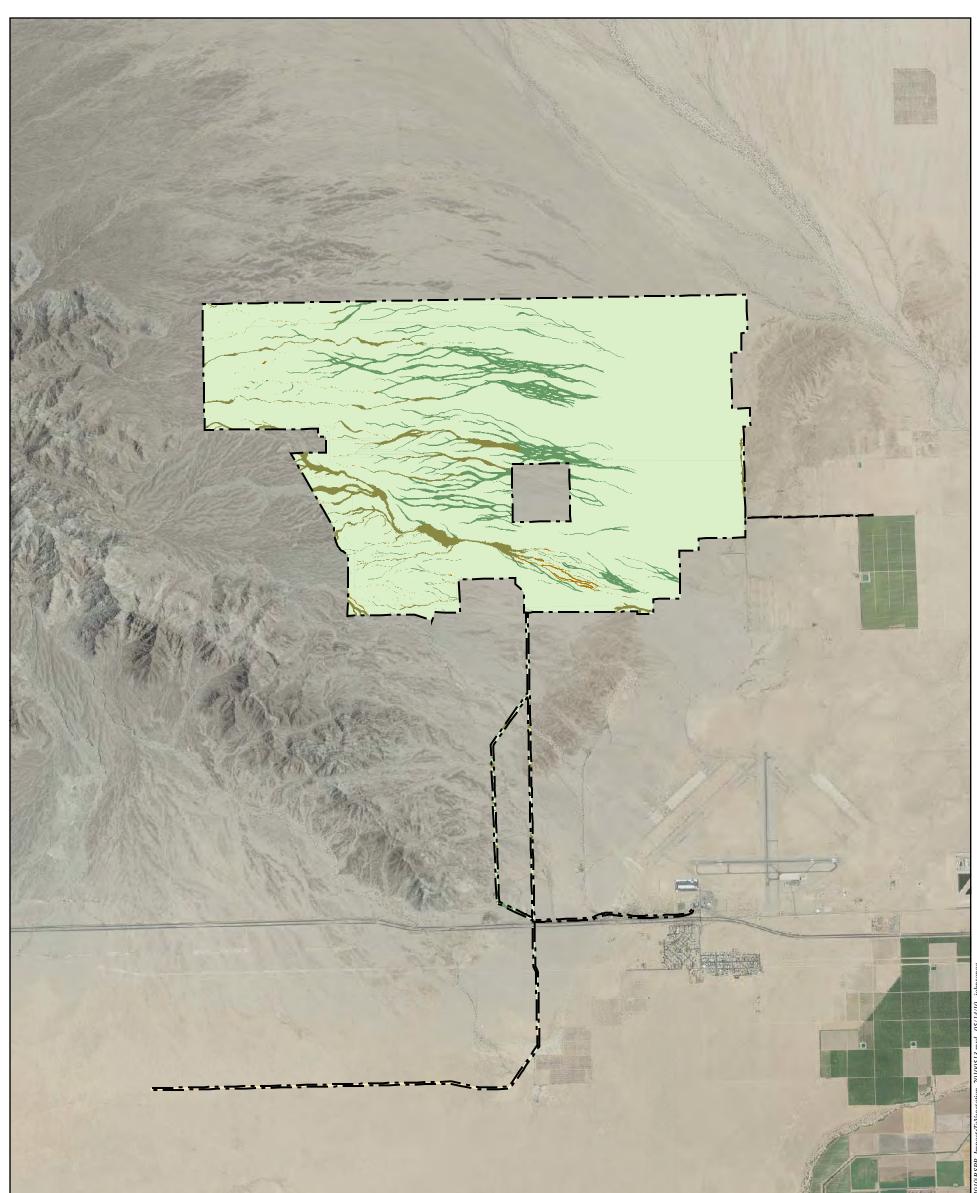


Jurisdictiona	l Waters of the State	Project Study Area	Buffer	Reconfigured Alternative Study	Area*	Buffer
Desert Dry Wash Woodland	Wash Dependant Vegetation	8.4	0.2		0.7	0.4
	Riparian Interfluve	23.8	0.0		3.5	
1	Vegetated Ephemeral Dry Wash	279.9	36.8		143.8	27.7
Other Waters	Unvegetated Ephemeral Dry Wash	9.2	1.5		5.0	1.5
1	Swale	416.8	6.5		235.9	21.6
	and the second sec	- 武事 - 1.				No.
urisdictional Waters of the State of Calif	ornia					
esert Dry Wash Woodland	Other Waters					
Wash Dependent Vegetation	Swale					
Riparian Interfluve	Unvegetated Ephemeral Dry Wa	/ash				
Vegetated Ephemeral Dry Wash	Study Area (Surveyed in 2009)					
Man Logation						
Map Location Legend	tudy Area			Blythe Solar		
	itudy Area ured Alternative Boundary*			Power Project	1 inch =	= 4,500 feet
NV UT	Buffer Study Area			Figure 3		
	•			Preliminary Results		AECOM
Study Are	ea (Surveyed in 2009)					
CA Study Are	ea (Surveyed in 2009)			State Waters		
CA Study Are	*N. en	lote: The Reconfigured Alternative D compasses the disturbance caused the solar power blocks only and is n	by construction	Spring 2010 Surveys		ate: May 2010





Map Location Legend OR ID Impact Boundaries Disturbance Area (6,603.4 acres) Additional Disturbance Areas 2010 (236.5 acres)	Blythe Solar Power Project Spring 2010 Surveys	1 inch = 4,000 feet $W \bigoplus_{S}^{N} E$
Gen-Tie Alignment Disturbance Area (33.2 acres) Temporary Construction Power Disturbance Area (2.7 acres) Utility Corridor Disturbance Area (90.8 acres)	Figure 5 Preliminary	AECOM
AZ AZ AZ AZ AZ AZ AZ AZ AZ AZ	Source: NAIP 2009; AECOM 2010	Date: May 2010



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Map Location Legend OR ID Vegetation Community Impacts Riparian Desert Dry Wash Woodland (202.2 acres) UT	Other	Blythe Solar Power Project Spring 2010 Surveys	1 inch = 4,500 feet $W \bigoplus_{S}^{N} E$
Onvegerated Epheniera Div Wash (0.0 acres)	Developed (0.3 acre) Preliminary Disturbance Areas May 2010	Figure 6 Preliminary Impacts to	AECOM
AZ		Cover Types May 2010 Source: NAIP 2009; AE COM 2010	Date: May 2010