

**CH2M HILL**

2485 Natomas Park Drive

Suite 600

Sacramento, CA 95833-2937

Tel 916.920.0300

Fax 916.920.8463

August 23, 2010

Mr. John Kessler
Siting Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

Subject: Rice Solar Energy Project (09-AFC-10)
Supplementary Information Item #8, Biological Resources Vegetation and Wash
Channel Acreages

Dear Mr. Kessler:

Attached please find one hardcopy of the Supplementary Information Item #8, Vegetation
and Wash Channel Acreages which includes summary tables as follows:

- TABLE SII8-1 - Summary of Vegetation Types by Project Component
- TABLE SII8-2 - Stream Channel Lengths and Acreages, by Project Component Impact Area
- TABLE SII8-3 - Acreages of All Wash Channels within the Project Fenceline

If you have any questions about this matter, please contact me at (916) 286-0278 or
Sarah Madams at (916) 286-0249.

Sincerely,

A handwritten signature in blue ink, appearing to read "Douglas M. Davy".

Douglas M. Davy, Ph.D.
AFC Project Manager

cc: POS List
Project File

DOCKET
09-AFC-10DATE AUG 23 2010RECD. AUG 23 2010

Rice Solar Energy Project

CEC Docket #09-AFC-10

SUBMITTED TO: California Energy Commission

SUBMITTED BY: Rice Solar Energy, LLC

WITH TECHNICAL ASSISTANCE Sycamore Environmental and CH2M HILL

DATE: August 23, 2010

TOPIC: Supplementary Information Item #8, Biological Resources
Vegetation and Wash Channel Acreages

The following is Rice Solar Energy, LLC's (RSE's) Supplementary Information Item (SII) #8, submitted in support of RSE's Application for Certification (AFC) for the Rice Solar Energy Project (RSEP) (09-AFC-10).

Vegetation Type by Project Component

Table SII8-1 is a summary of vegetation types by project component.

TABLE SII8-1

Summary of Vegetation Types by Project Component

Project component	<i>Larrea tridentata</i> - <i>Ambrosia dumosa</i> Shrubland	<i>Ambrosia dumosa</i> Shrubland	Smoke Tree Woodland	Concrete Pad	Total
I. Gross Acreage, Project Parcel and Transmission Line					
Project Parcel (four parcels, to be merged into one)	2,433.1	115.6	5.2	6.1	2,560.0
T-line (24 ft wide x 10 miles)	29.5 ac (Public/BLM land) 2.6 ac (Private/other land)	--	--	--	32.1
Gross Acreage, Parcel and Tline	2,459.8	115.6	5.2	6.1	2,592.1
II. Acreage of Project Design Components Within the Project Parcel					
Solar generator site, including permanent facilities within perimeter fence	1,316.6	87.3	0.0	6.1	1,410.0
Berm and drainage channel outside perimeter fence ²	9.5	0.2	0.0	0.0	9.7
Construction-phase disturbance (parking, lay-down, and logistics)	42.2	24.7	0.0	0.0	66.9
Subtotal Project Parcel components disturbance acreage	1,368.3	112.2	0.0	6.1	1,486.6

TABLE SII8-1
Summary of Vegetation Types by Project Component

Project component	<i>Larrea tridentata</i> - <i>Ambrosia dumosa</i> Shrubland	<i>Ambrosia dumosa</i> Shrubland	Smoke Tree Woodland	Concrete Pad	Total
III. Transmission line Component Acreages					
Permanent new access and maintenance road for transmission line (24 ft wide x 4.6 and 5.4 miles) ³	Along 4.6-mi New constructed road - 13.8 ac (Public/BLM land)	0.0	0.0	0.0	13.8
	Along 5.4-mi existing dirt road - 15.7 ac (Public/BLM land) 2.6 ac (Private/other land)	0.0	0.0	0.0	18.3
Short-term disturbance for pull sites ⁴	10.0	0.0	0.0	0.0	10.0
Long-term disturbance for transmission line towers ⁵	82.6	0.0	0.0	0.0	82.6
Subtotal Transmission Line disturbance acreage	124.7	0.0	0.0	0.0	124.7
Grand Total Project Disturbance Acreage	1,493.0	112.2	0.0	6.1	1,611.3

1. Data from the Application for Certification (SR 2009a) unless otherwise noted.
2. Berm and channel outside of the project fence to divert drainage in the north half of the heliostat field.
3. Staff estimates 24-foot width; length is reported as 4.6 miles in SR 2009a.
4. Staff estimates 90 towers and 10 pull sites, each site approximately one acre.
5. Applicant estimates 400 sf disturbance per tower (AFC page 5.2-52).

Wash Channel Acreages by Project Component Impact Area

Table SII8-2 lists wash channel lengths and acreages by project component impact area.

Wash Channel Acreage, Project Fenceline

Table SII8-3 lists wash channel lengths and acreages by wash size class, for the 1,410 acre area within the project perimeter fenceline.

TABLE SII8-2

Stream Channel Lengths and Acreages, by Project Component Impact Area

Ave width per category (ft)	2.50		7.50		15.00		27.50		40.90			
Project Component	Category 1		Category 2		Category 3		Category 4		Category 5		Totals	
	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)
I. Project Parcel (2,560 ac)												
A. Within Perimeter Fence (1,410 ac)												
1. Perimeter Access Road (24' wide)	9,570	0.549	1,154	0.199	82	0.028	216	0.136	0	0.000	11,023	0.912
2. Perimeter Access Road (20' buffer)	9,611	0.552	1,147	0.197	133	0.046	188	0.119	0	0.000	11,079	0.914
3. Power Block	8,685	0.498	857	0.148	0	0.000	0	0.000	0	0.000	9,542	0.646
4. Power Block Access Roads (18-24' wide)	3,285	0.189	624	0.107	45	0.016	0	0.000	0	0.000	3,953	0.312
5. Power Block Access Roads (20' buffer)	2,901	0.166	760	0.131	76	0.026	0	0.000	0	0.000	3,737	0.323
6. Heliostats (42 inch diameter base)	1,929	0.111	367	0.063	75	0.026	0	0.000	0	0.000	2,372	0.200
7. Heliostat Maintenance Paths (10' wide)	109,366	6.277	24,341	4.191	107	0.037	68	0.043	0	0.000	133,882	10.548
8. Heliostat Maintenance buffer (20') - bases	397,829	22.832	86,146	14.832	9,989	3.440	482	0.304	0	0.000	494,445	41.408
9. Evaporation Ponds (3 ea - 5 ac)	15,707	0.901	2,590	0.446	653	0.225	0	0.000	0	0.000	18,951	1.572
10. 30 ac-ft Detention Basin Area	28,787	1.652	7,261	1.250	922	0.317	0	0.000	0	0.000	36,970	3.219
11. Rip-rap for 30-ac-ft Detention Basin Area	737	0.042	179	0.031	15	0.005	7	0.004	0	0.000	938	0.082
Subtotal, Affected Channels within the Perimeter Fence	588,408	33.769	125,426	21.595	12,097	4.166	961	0.606	0	0.000	726,892	60.136
B. Affected Channels Outside Perimeter												
12. Laydown/Construction/Trailers	10,029	0.576	0	0.000	0	0.000	0	0.000	0	0.000	10,029	0.576
13. Construction Parking	6,127	0.352	0	0.000	0	0.000	0	0.000	0	0.000	6,127	0.352
14. Main Access Road (24' wide; paved)	718	0.041	0	0.000	0	0.000	0	0.000	0	0.000	718	0.041
15. Secondary Road (24' wide; unpaved)	119	0.007	0	0.000	0	0.000	0	0.000	0	0.000	119	0.007
16. Admin/Shop Bldgs.	641	0.037	0	0.000	0	0.000	0	0.000	0	0.000	641	0.037
17. Admin/Shop Parking	1,102	0.063	0	0.000	0	0.000	0	0.000	0	0.000	1,102	0.063
18. Heliostat Bldg./Area	2,692	0.154	0	0.000	0	0.000	0	0.000	0	0.000	2,692	0.154
19. Heliostat Bldg./Area Parking	1,315	0.075	0	0.000	0	0.000	0	0.000	0	0.000	1,315	0.075
20. Perimeter Diversion Ditch	4,917	0.282	517	0.089	32	0.011	120	0.076	0	0.000	5,586	0.458
21. T-Line Access Road (12') w/in Plant Site	807	0.046	237	0.041	0	0.000	0	0.000	0	0.000	1,044	0.087
22. T-Line Road Buffer (20') w/in Plant Site	2,725	0.156	814	0.140	0	0.000	0	0.000	0	0.000	3,539	0.296
Subtotal, Affected Channels Outside the Perimeter Fence	31,191	1.789	1,568	0.270	32	0.011	120	0.076	0	0.000	32,911	2.146
Subtotal Channels in Affected Areas of the Project Parcel	619,599	35.558	126,994	21.865	12,129	4.177	1,081	0.682	0	0.000	759,803	62.282

TABLE SII8-2

Stream Channel Lengths and Acreages, by Project Component Impact Area

Ave width per category (ft)	2.50		7.50		15.00		27.50		40.90			
Project Component	Category 1		Category 2		Category 3		Category 4		Category 5		Totals	
	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)
II. Transmission Line and Substation												
1. T-Line Access Road (12' wide)	8,670	0.498	2,537	0.437	278	0.096	56	0.035	24	0.023	11,565	1.089
2. T-Line Access Road (20' buffer)	28,725	1.649	8,653	1.490	897	0.309	184	0.116	81	0.076	38,540	3.640
3. Substation (265' x 400'; 2.43 ac)	2,631	0.151	0	0.000	0	0.000	0	0.000	0	0.000	2,631	0.151
Subtotal Affected Channels within the Tline Corridor and Substation Areas	40,026	2.298	11,190	1.927	1,175	0.405	240	0.151	105	0.099	52,736	4.880
Total Potentially Affected Channels	659,624	37.856	138,184	23.792	13,304	4.582	1,321	0.833	105	0.099	812,538	67.162

TABLE SII8-3

Acreages of All Wash Channels within the Project Fenceline

Ave width per category (ft)	2.50		7.50		15.00		27.50		40.90			
Wash Category (length, area)	Category 1		Category 2		Category 3		Category 4		Category 5		Totals	
	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)	Length (feet)	Area (acres)
Total Wash Channels within the Perimeter Fenceline (1,410 acres)	725,742	41.652	152,634	26.28	18,027	6.208	2,002	1.264	0	0	898,405	75.404



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

**APPLICATION FOR CERTIFICATION
FOR THE *RICE SOLAR ENERGY POWER
PLANT PROJECT***

Docket No. 09-AFC-10

PROOF OF SERVICE
(Revised 8/5/2010)

APPLICANT

Jeffrey Benoit
Project Manager
Solar Reserve
2425 Olympic Boulevard, Ste. 500 East
Santa Monica, CA 90404
Jeffrey.Benoit@solarreserve.com

APPLICANT'S CONSULTANTS

Andrea Grenier
Grenier and Associates
1420 East Roseville Parkway, Ste. 140-377
Roseville, CA 95661
andrea@agrenier.com

Douglas Davy
CH2MHILL
2485 Natomas Park Drive, Ste. 600
Sacramento, CA 95833
ddavy@ch2m.com

COUNSEL FOR APPLICANT

***Scott Galati**
Galati & Blek, LLP
455 Capitol Mall, Suite 350
Sacramento, CA 95814
sgalati@gb-llp.com
mmills@gb-llp.com

INTERESTED AGENCIES

California ISO
E-mail Preferred
e-recipient@caiso.com

Liana Reilly
Western Area Power Administration
PO Box 281213
Lakewood CO 80228-8213
reilly@wapa.gov

Allison Shaffer
Bureau of Land Management
Palm Springs/South Coast Field Office
1201 Bird Center Drive
Palm Springs, Ca 92262
allison_shaffer@blm.gov

INTERVENORS

ENERGY COMMISSION

ROBERT WEISENMILLER
Commissioner and Presiding Member
rweisenm@energy.state.ca.us

KAREN DOUGLAS
Chairman and Associate Member
kldougla@energy.state.ca.us

Kourtney Vaccaro
Hearing Officer
kvaccaro@energy.state.ca.us

John Kessler
Siting Project Manager
jkessler@energy.state.ca.us

Deborah Dyer
Staff Counsel
ddyer@energy.state.ca.us

***Jennifer Jennings**
Public Adviser's Office
E-mail preferred
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Mary Finn, declare that on August 23, 2010, I served and filed copies of the attached Supplementary Information Item #8, Biological Resources Vegetation and Wash Channel Acreages. 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:

[\[http://www.energy.ca.gov/sitingcases/ricesolar\]](http://www.energy.ca.gov/sitingcases/ricesolar).

The documents have been sent to both 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:

_____ by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

x _____ sending an original paper copy, mailed and emailed respectively, to the address below (preferred method);

OR

_____ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 09-AFC-10

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, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.



Mary Finn