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DOCKET
08-AFC-2

DATE MAR 18 2010

RECD. MAR 22 2010

March 18, 2010

California Energy Commission
Attn: Docket No. 08-AFC-2
1516 Ninth Street, MS 4
Sacramento, CA 95814-5512

Re: 08AFC2 Beacon Solar Energy Project

Dear Docket Clerk:

Enclosed are an original and one copy of: (1) California Unions for Reliable Energy Exhibits 657 and 658, (2) Exhibit 657 and (3) Exhibit 658. Please process these documents and return conformed copies in the envelope provided.

Thank you.

Sincerely,

/s/

Bonnie A. Heeley
Administrative Assistant

:bh

2162-089a

**STATE OF CALIFORNIA
California Energy Commission**

In the Matter of:

The Application for Certification
for the BEACON SOLAR ENERGY
PROJECT

Docket No. 08-AFC-2

**CALIFORNIA UNIONS FOR RELIABLE ENERGY
EXHIBITS 657 and 658**

March 18, 2010

Tanya A. Gulesserian
Marc D. Joseph
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California Unions for Reliable Energy (“CURE”) identifies the following additional Exhibits that CURE intends to offer into evidence for the Beacon Solar Energy Project (“Project”).

Exhibit 657: Rosamond Community Services District Letter of Intent dated August 14, 2009 and posted August 20, 2009 available at:
[http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-14\) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-14) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF)

Exhibit 658: California City Recycled Water Supply Proposal dated and posted August 13, 2009 available at:
<http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08-13 California City Recycled Water Supply Proposal NT-52865.PDF>

CURE reserves the right to supplement its exhibit list with additional documents, analyses and other information at any time up to and including the close of the evidentiary hearings.

Dated: March 18, 2010

Respectfully submitted,

_____/s/_____
Tanya A. Gulesserian
Marc D. Joseph
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

Attorneys for the CALIFORNIA UNIONS FOR
RELIABLE ENERGY

STATE OF CALIFORNIA

Energy Resources Conservation and Development Commission

In the Matter of:

The Application for Certification for the
BEACON SOLAR ENERGY PROJECT

Docket No. 08-AFC-2

PROOF OF SERVICE

I, Bonnie Heeley, declare that on March 18, 2010 I served and filed copies of the attached
CALIFORNIA UNIONS FOR RELIABLE ENERGY
EXHIBITS 657 and 658

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 www.energy.ca.gov/sitingcases/beacon. The document has 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 via email and by U.S. Mail with first-class postage thereon, fully prepaid and addressed as provided on the Proof of Service list to those addresses NOT marked "email preferred." An original paper copy and one electronic copy, mailed and emailed respectively, was sent to the Docket Office.

I declare under penalty of perjury that the foregoing is true and correct. Executed at South San Francisco, CA on March 18, 2010.

_____/s/_____
Bonnie Heeley

CALIFORNIA ENERGY COMMISSION
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SACRAMENTO, CA 95814-5512
docket@energy.state.ca.us

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EXHIBIT 657

Rosamond Community Services District

BOARD OF DIRECTORS

Kathleen S. Spoor, President
Robert C. Scherer, Ed.D., Vice-President
Byron Glennan
Kim Lord
Daniel Landsgaard

OFFICERS

Jack Stewart
General Manager
Dennis LaMoreaux
*Assistant General Manager
& District Engineer*
Jeff Ferre / Jill Willis
Co Counsel
Lazette Guerrero
Board Secretary

DOCKET 08-AFC-2

DATE	08/14/09
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RECD.	08/31/09
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August 14, 2009

The Resources Agency of California
California Energy Commission
ATTN: Mr. Eric Solorio, Project Manager
1516 Ninth Street
Sacramento, CA 95814-5512

RE: TERTIARY WATER SERVICE LETTER OF INTENT FOR THE BEACON SOLAR ENERGY PROJECT (08-AFC-2)

Dear Mr. Solorio,

The Rosamond Community Services District (RCSD) is pleased to submit a proposal in the form of this Letter of Intent (LOI) to provide tertiary water service to the Beacon Solar Energy Project (08-AFC-2) ("Beacon"), proposed to be located near Cantil, California. This LOI is meant to support the California Energy Commission's policy which mirrors the California State Water Resources Control Board policy regarding the use of water resources in industrial facilities and power plant cooling. In brief, RCSD is prepared to supply 1,456 acre-feet per year of Title 22 tertiary water generated from its customers, to Beacon for a period of thirty (30) years. To carry out this proposal will require a contractual agreement providing for Beacon to purchase the recycled water under mutually agreeable terms, in order for RCSD to secure financing for the required capital improvements.

Rosamond Community Services District is ready to negotiate a final contract to provide tertiary water service to the Project under the following general terms:

- 1) Water supply quality & levels of constituents: The delivered water will meet Title 22 requirements for tertiary treated recycled water. The constituents will be similar to the RCSD results shown in Appendix "A". Additionally, the tertiary

effluence is expected to contain silica levels of 46 ppm and a bio-nutrient removal process within the treatment plant;

- 2) Capacity to provide total quantities and peak flows: RCSD currently has an average inflow rate of 1.3 MGD. This equates to 1,456 acre-feet per year. RCSD recognizes Beacon's peak water demands will exceed the average daily outflow from the RCSD WWTP. However, RCSD will provide a constant flow rate of 1.3MGD to Beacon which can be stored on the Beacon site and utilized during peak demand periods to meet 100% of the projects cooling water demand. The storage facility will store excess winter tertiary water production in lined and covered basins for use in the summer months;
- 3) Proposed routes and Point of Delivery: RCSD has proposed two (2) routes to reach a point on Neuralia Road adjacent to Beacon as shown on the map included as Appendix "B". The delivery point for RCSD is located at the RCSD WWTP;
- 4) Ownership: RCSD will own and operate the tertiary wastewater plant expansion, including the portion needed to serve Beacon. The seasonal storage and transmission main and related facilities will be owned by Beacon;
- 5) Capital Cost Estimate: The total capital improvement cost to Beacon would be no more than \$47,977,635. Appendix "C" and "D" titled "Beacon Project Water Cost Basis" and "Beacon Project Supplied by RCSD w/o Peaking Capacity" respectively detail the assumptions and conditions related to the cost of service. The total capital cost covers the transmission main and booster stations, seasonal storage, and a portion of the tertiary wastewater treatment plant expansion. RCSD will expand the WWTP in order supply the necessary tertiary water for Beacon. The complete expansion will have a capacity of 2.0 MGD at an estimated cost of \$22M. 1.0 MGD of the expansion is needed for Beacon. The propositional cost associated with generating recycled water for use by Beacon is \$11M. The summary is as follows:

12" Transmission main, 2-Booster Stations, and related facilities:	\$25,777,635*
Beacon Seasonal Storage:	\$5,200,000*
RCSD Tertiary WWTP Expansion (portion):	\$11,000,000
Easements:	\$1,000,000
Contingencies:	<u>\$5,000,000</u>
Total:	\$47,977,635

These estimates **do not provide for public agency construction under prevailing wage requirements*

- 6) **Annual O&M Cost Estimates:** The annual O&M and tertiary water cost to Beacon is estimated as detailed in Appendix "D" and summarized below for the first year:

Estimated O&M (@ \$0.10/kWh):	\$169,456
Cost of Tertiary Water (\$624/AF):	<u>\$908,544</u>
Estimated Total Annual Cost:	\$1,078,000

These costs are estimates and must be calculated and adjusted annually based on the actual cost of power, maintenance activity, and potable water rates. The cost of tertiary water is established at \$624 with an annual escalator of 4%. RCSD will entertain an option for an initial payment of the full cost of tertiary water for the thirty (30) year period.


- 7) **Financing:** RCSD will obtain Certificates of Participation for the tertiary wastewater plant expansion and related facilities using a purchase contract with Beacon as security for the bondholders.
- 8) **Construction:** RCSD will obtain the necessary easements and rights-of-way for the transmission main and related facilities. Beacon will conduct surveying and design, provide contract documents for construction, and contract to build these facilities. The transmission main and related facilities will be operated and maintained by Beacon unless a separate agreement is reached with RCSD to provide those services; Beacon will be responsible for the peaking requirements by properly sizing the transmission main and booster stations and by constructing seasonal tertiary water storage at the Beacon site.
- 9) **California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) Compliance:** RCSD will work with the California Energy Commission (CEC) and Edwards Air Force Base to complete the required environmental documentation and procedures for facilities.

This Letter of Intent reflects the general terms and conditions under which RCSD is willing to provide tertiary water service to Beacon and serves as a basis for negotiating a mutually beneficial definitive agreement.

This Letter of Intent is intended to be a non-binding letter of intent summarizing and evidencing the terms upon which RCSD is willing to proceed. Any legally binding obligation of the parties with respect to the Beacon Solar Energy Project shall exist only upon the execution and delivery of the definitive agreement, into which this Letter and all prior discussions shall merge. It expressly is understood that this Letter is not a contract to execute the definitive agreement or otherwise to provide recycled water, and that no party shall be entitled to any recourse, in the form of damages, or otherwise, for any expense incurred or any benefit conferred or lost before or after the date of this Letter if there is a failure, for any reason, of the parties to agree on the final terms and provisions of the definitive agreements. RCSD looks forward to a cooperative negotiation process, but expressly reserves the right of final approval or disapproval, of the definitive agreement.

The District is pleased to be considered for this opportunity and its potential benefits for the region. Please feel free to contact me if you have any questions.

Sincerely,


Jack Stewart,
General Manager

Cc: RCSD Board of Directors

APPENDIX "A"

EFFLUENT MINERAL CHARACTERISTICS FOR LWRP, PWRP AND RWWTP

**TABLE 11, FINAL FACILITIES PLANNING REPORT, ANTELOPE VALLEY
RECYCLED WATER PROJECT**

Table 11: Effluent Mineral Characteristics for LWRP, PWRP and RWWTP

Parameter (Annual Mean Values)	Unit	LWRP ¹	PWRP ¹	RWWTP ²
Total Dissolved Solids	mg/l	548	520	590
Ammonia-N	mg/l	15.7	22	32
Calcium	mg/l	44	31.1	NA
Magnesium	mg/l	12.3	11.3	NA
Arsenic	mg/l	< 0.0022	< 0.001	0.007
Barium	mg/l	0.014	NA	NA
Aluminum	mg/l	< 0.09	NA	NA
Cadmium	mg/l	< 0.0004	< 0.0004	ND
Total Chromium	mg/l	< 0.010	< 0.010	ND
Hexavalent Chromium	mg/l	< 0.0001	NA	NA
Cobalt	mg/l	< 0.010	NA	NA
Iron	mg/l	0.275	NA	NA
Lead	mg/l	< 0.002	< 0.002	0.006
Manganese	mg/l	0.019	NA	NA
Mercury	mg/l	< 0.00004	< 0.00004	ND
Nickel	mg/l	< 0.020	< 0.020	ND
Potassium	mg/l	17	14.1	NA
Silver	mg/l	< 0.00036	< 0.00033	ND
Antimony	mg/l	< 0.0005	< 0.0005	ND
Beryllium	mg/l	< 0.0007	< 0.0005	ND
Molybdenum	mg/l	< 0.04	NA	NA
Thallium	mg/l	< 0.001	< 0.001	ND
Vanadium	mg/l	< 0.020	NA	NA
Sulfate	mg/l	80	69	NA
Chloride	mg/l	141	113	98
Total Hardness (as C ₂ CO ₃)	mg/l	127	NA	NA
MBAS	mg/l	0.1	0.2	7.8
Copper	mg/l	< 0.010	NA	0.043
Selenium	mg/l	< 0.001	NA	ND
Sodium	mg/l	167	125	NA
Zinc	mg/l	0.067	NA	0.440

NA: not available

ND: None detected at DLR.

¹2004 Annual Reports.

²BSK Analytical Laboratories Certificate of Analysis, Sample Date 07/20/04 of influent sewer.

APPENDIX "B"

ROUTING ALTERNATIVES AND POINT OF DELIVERY MAP

Proposed Alternate Recycled Water Pipelines

Beacon Solar Energy Project Site

California City

Mojave

Northern Pipeline Segment
29.09 Miles

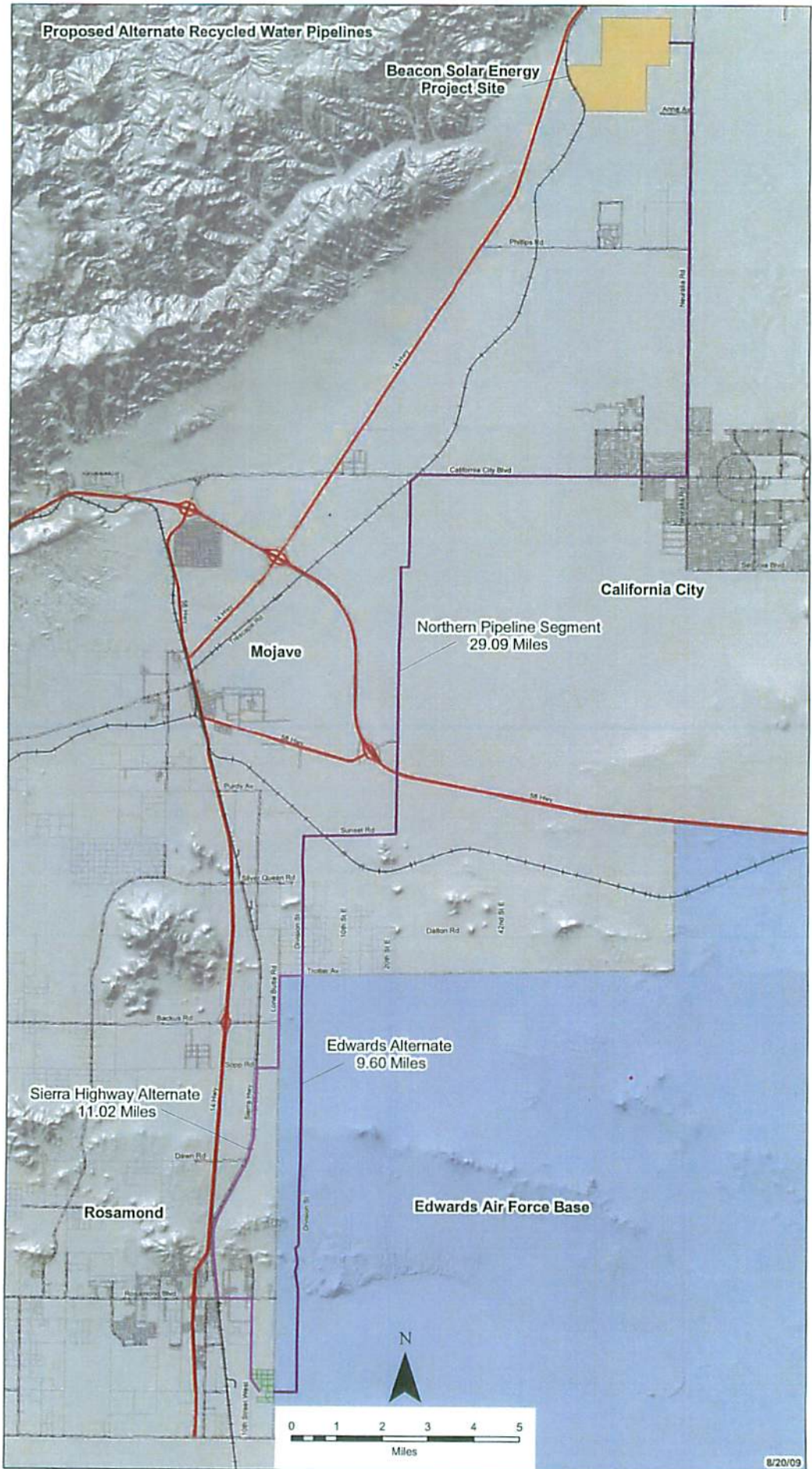
Edwards Alternate
9.60 Miles

Sierra Highway Alternate
11.02 Miles

Rosamond

Edwards Air Force Base

N



APPENDIX "C"

BEACON PROJECT WATER COST BASIS

BEACON PROJECT WATER COST BASIS

RCSD Tertiary Water (TW) Availability

Annual TW = (1.3 MGD) (365) (1/.3259) = 1,456 AF/yr

Capital Costs

RCSD

2.0 MGD Deep Lagoon Tertiary Plant Construction Estimate = \$22,000,000

1.0 MGD for Beacon Project: \$11,000,000

Beacon

500 AF TW Seasonal Storage Construction Estimate = \$5,200,000* (needed for peaking ability)

(*does not provide for public agency construction under prevailing wage requirements)

Tertiary Water Rate

Potable Water Rate: Assume ¾" meter, 1 AF/month = 436 HCF/month, Rate effective 10/09

HCF	Flat Rate	\$/HCF	\$/Tier
3	16.00	-	16.00
4-18	-	1.30	19.50
19-33	-	1.43	21.45
34-43	-	1.61	16.10
44-436	-	1.80	<u>707.40</u>

Total: \$780.45

80% of Potable Water Cost

TW Cost = (\$780.45/AF Potable) (0.8) = \$624/AF

Total Cost of Delivered Water

Total Cost/AF with constant flow rate = TW Cost + O&M Cost = (0.8) (Potable Rate) + (Actual O&M)

Dennis D. LaMoreaux, P.E. C45906

June 24, 2009

APPENDIX "D"

BEACON PROJECT SUPPLIED BY RCSD W/PEAKING CAPACITY

CAPITAL AND ANNUAL COST ESTIMATES

BEACON PROJECT SUPPLIED BY RCSD w/o PEAKING CAPACITY

CAPITAL AND ANNUAL COST ESTIMATES

Tertiary Water Demand

Beacon Solar 230 MW Project
 RCSD WWTP Capability = 1.3MGD = 4.0 AF/day
 = 2.0 CFS

Main Sizing Criteria/Formula

CML pipe;

Minimize head losses;

$Q=VA$;

$$h = \{(0.2083(100/140)^{1.852}(900)^{1.852})/D^{4.8655}\}(52.8) = \text{ft head loss/mile}$$

Assume Maximum pressure of 185 psi = 427'

$$\text{Pumping Cost} = (24) (365) (0.746Qhc) / (3960u_p u_m)$$

$$Q = 2.0 \text{ cfs} = 900 \text{ gpm}$$

h = total head (ft)

c = Electrical Cost: assume \$0.10/kWhr

$u_m u_p$ = plant efficiency = 0.70

$$\text{Pumping Cost} = (212) (h)$$

Cost Estimates of Transmission Mains

Basis: \$13.00/in-dia/ft used in NLA/KC Project (\$2005);

1.09 CPI Adjustment to \$2009 = \$14.2/in-dia/ft (Use in areas with pavement, existing streets)

Use \$11/in-dia/ft in unimproved areas (per City of Lancaster bidding experience)

Preferred Route (EAFB & Western)

<u>Length(ft)</u>	<u>\$/in-dia/ft</u>	<u>\$/in-dia</u>	
50,713	11.0	557,843	RCSD WWTP to Trotter Road via EAFB
69,454	11.0	763,994	Trotter Road to California Blvd.
<u>84,257</u>	14.2	<u>1,196,449</u>	California Blvd. to Beacon Project
204,424		2,518,286	

Preferred Route Weighted \$/In-dia/ft = \$12.32

TRANSMISSION MAIN CAPITAL COST ESTIMATES									
Main Size (in)	Main Cost Preferred Rt. (\$)	Boosting Head					Booster Stations		Total Capital Preferred Rt. (\$)
		Friction Head Loss			Elevation (ft)	Total h (ft)	No.	Cost (@\$1M/Sta.)	
		(ft/mile)	(Miles)	(ft)					
8	20,148,029	70.5	21.8	1,537	397	1,934	4.5	5,000,000	25,148,029
10	25,185,037	23.8	21.8	519	397	916	2.1	2,000,000	27,185,037
12	30,222,044	9.8	21.8	214	397	611	1.4	2,000,000	32,222,044
14	35,259,052	4.6	21.8	100	397	497	1.2	2,000,000	37,259,052

ANNUAL WATER COST ESTIMATES			
Main Size (in)	Energy Cost (\$212)h	Maint. Cost (\$20k/Sta.)	Total (\$)
8	409,987	100,000	509,987
10	194,158	80,000	274,158
12	129,456	40,000	169,456
14	105,423	40,000	145,423

Proposed Project and Estimated Costs

Use 12" Transmission main from RCSD to Beacon Project using the EAFB route

Capital Cost = Transmission main + 2.0 Tertiary WWTP + Beacon Onsite Seasonal Storage

Capital Cost = \$32,222,044 + \$11,000,000 + 6,500,000 = **\$49.7M** (RCSD Construction)

Capital Cost = \$25,777,635* + \$11,000,000 + \$5,200,000* = **\$42.0M** (*Beacon Construction)

Total Construction Cost Estimate = Capital Cost + Easements + Contingencies

Total Construction Cost Estimate = \$42.0M + \$1M + \$5M = **\$48.0M** (*Beacon Construction)

Annual Cost (First Year) = TW Cost + O&M = (\$624/AF) (1,456 AF) + \$169,456 = **\$1,078,000/yr**

Dennis D. LaMoreaux, P.E. C45906
August 13, 2009

Declaration

I, Janet M. Laurain, declare as follows:

1. I am a paralegal at Adams Broadwell Joseph & Cardozo. I make this declaration from my personal knowledge. If called as a witness, I could testify competently to facts stated in this declaration.

2. Exhibit 657 is a true and correct copy of Rosamond Community Services District Letter of Intent dated August 14, 2009. I downloaded and printed this document on March 15, 2010 from:

<http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09->

[14\) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-14/Revised_Rosamond_Commnty_Servcs_Dist_Letter_of_Intent_TN-53088.PDF), a website purporting to be maintained by the California Energy Commission.

3. Exhibit 658 is a true and correct copy of California City Recycled Water Supply Proposal dated and posted August 13, 2009. I downloaded and printed this document on March 15, 2009 from

<http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08->

[13 California City Recycled Water Supply Proposal NT-52865.PDF](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08-13/California_City_Recycled_Water_Supply_Proposal_NT-52865.PDF), a website purporting to be maintained by the California Energy Commission.

4. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this 18 day of March, 2010, at South San Francisco, California.


Janet M. Laurain

EXHIBIT 658

Docket Optical System - Fwd: California City Recycled Water Proposal

From: Eric Solorio
To: Docket Optical System
Date: 8/13/2009 10:53 AM
Subject: Fwd: California City Recycled Water Proposal
Attachments: California City Recycled Water Proposal

DOCKET**08-AFC-2**

DATE 8/13/2009

RECD. 8/13/2009

Gentlemen:

I have attached all the current spread sheets, drawings and data requested by you over the last month.

The only bit of information that we are still investigating is the source of bonding for the City's contribution to the project. I expect to have that information early next week and will confirm it with you as soon as I have it.

Among the documents is a plan, profile and engineer's estimate of the cost of a potable waterline from Beacon to Cal City. Please remember that we would like to be able to negotiate for the purchase of potable water from the Beacon site to replace chloraminated water that we cannot use from AVEK.

Our Council has twice approved the plan as is presented to you, both with and without a potable water option.

Once we have confirmed our funding source, we will send you a brief letter on City letterhead, confirming our Council's support for expanding our Recycled Water production to meet the needs of the Beacon Solar Project.

We have spent most of our energy working on the engineering and financial side of the project, recognizing that we jointly will need to produce a LOU, which will be patterned after the one produced by Rosamond.

If you have further questions or concerns, please contact me at (760) 596-2861 or by e-mail at your convenience.

Sincerely,

Michael J. Bevins
 Public Works Director
 City of California City

**PROOF OF SERVICE (REVISED 4/28/09) FILED WITH
 ORIGINAL MAILED FROM SACRAMENTO ON 8/13/09
 TKG**

Beacon Solar/Cal City Joint Water Exchange Project
Draft Capital Cost 2

<u>Description</u>	<u>Miles</u>	<u>Qty</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Beacon</u>	<u>Cal City</u>	<u>Total Cost</u>
Tertiary Line on (A) Neuralia from Beacon to Mendiburu in Cal City and (B) on Mendiburu from Neuralia to WWTP							
(A) 14" C-905 Pipe	9.35	49,368	Foot	\$150.00	7,405,200.00 +		7,405,200.00
(B) 14" C-905 Pipe	2.82	14,900	Foot	\$150.00	2,235,000.00 +		2,235,000.00
Booster		1	Each	\$800,000.00	1,000,000.00 +		1,000,000.00
Cal City Sewer Line Expansion							
Sewer Trunk Line Design/Build		1	Each	\$8,825,000.00	8,825,000.00 +		8,825,000.00
Neighborhood Sewer System Design/Build		1	Each	\$19,380,000.00	19,380,000.00 +		19,380,000.00
Connection Construction		2,354	Each	\$1,500.00		3,531,000.00	3,531,000.00
Abandonment of Septic and Seepage		2,354	Each	\$1,000.00		2,354,000.00	2,354,000.00
Main Line Pioneering Agreement		1,200	Each	-\$1,000.00	(1,200,000.00)		
2,754 Non Sewer Water Connections							
2,498 RE @ .57 AVG. Af/Yr Discharge = 1,424 Avg. Af/Yr							
2007 Effluent 846 Af/Yr with 1,461RE = 0.57 Af/Yr/RE							
Cal City WWTP Capacity Upgrades							
Head Works		1	Each	\$350,000.00	350,000.00		350,000.00
Lift Station		1	Each	\$100,000.00	100,000.00		100,000.00
Filter		1	Each	\$1,500,000.00	1,500,000.00		1,500,000.00
Contact Basin		1	Each	\$500,000.00	500,000.00		500,000.00
Sludge Handling		1	Each	\$600,000.00	600,000.00		600,000.00
Hydraulic Changes		1	Each	\$1,500,000.00	1,500,000.00		1,500,000.00
Engineering					457,500.00		457,500.00
Sewerline Collection Equipment		1	Each	\$500,000.00		500,000.00	
Golf Course Irrigation Upgrades		1	Each	\$2,000,000.00		2,000,000.00	
** New Sewer Revenue [23.46 x 12 x 2,354 = \$662,698.08]							
+ Engineering Included							
Contingency/Legal/Financial					250,000.00		
Project Management					440,000.00		
Preliminary Engineering						200,000.00	
Total Project Cost:					43,342,700.00	8,585,000.00 **	51,927,700.00

2009/10 BUDGET PROPOSAL

Acct No	Account Description	2008/09	2009/10	.8 MGD	1.7 MGD
		Budget	Proposed	Capacity 2013/14 Proposed	Capacity 2013/14 Proposed
Liabilities					
S2-02511	Long Term Bonds	1,865,000.00			
S2-02521	Bond Interest Payment	21,028.99			
Revenue					
Op Revenue					
S2-3731	Residential	457,000.00	457,000.00	457,000.00	698,544.00
S2-3733	Connections	0.00	0.00	0.00	Monthly Rate \$23.76
S2-3734	Commercial	329,000.00	329,000.00	329,000.00	Connect Years: 30
	Recycled Water				Connect Rate: \$1,600.00
	Total Op Revenue	786,000.00	786,000.00	786,000.00	256,785.00 AVEK AF Rate: \$265.00
Non Op Revenue					
S2-3612	Investment Earnings	5,200.00	5,200.00	5,200.00	Purple Percent: 68%
S2-3997	Aspen Ave Sewer Assess	17,000.00	17,000.00	17,000.00	Purple Rate: \$180.20
	Total Non Op Revenue	22,200.00	22,200.00	22,200.00	Purple AF: 1,425
	Total Revenue:	808,200.00	808,200.00	808,200.00	
Expense					
Sewer Administration					
S2-5211-110	Regular Salaries	32,455.00	32,455.00	10,385.60	Admin Rate: 68%
S2-5213-112	Premium Overtime	1,500.00	1,500.00	480.00	
S2-5213-132	Medicare	471.00	471.00	150.72	
S2-5213-133	Cafeteria Plan	7,200.00	7,200.00	2,304.00	
S2-5213-134	Retirement	8,944.00	8,944.00	2,862.08	
S2-5213-135	Unemployment Ins	158.00	158.00	50.56	
S2-5213-136	Worker's Comp	302.00	302.00	96.64	
S2-5211-143	Educational Incentive	500.00	500.00	160.00	
S2-5211-242	Admin Copy Expense	450.00	450.00	144.00	
	Total Sewer Administration	51,980.00	51,980.00	16,633.60	

Recycled Water Delivery					
52-5213-110 Regular Salaries	62,000				
52-5213-111 Straight Overtime	0				
52-5213-112 Premium Overtime	0				
52-5213-132 Medicare	1,100				
52-5213-133 Cafeteria Plan	11,000				
52-5213-134 Retirement	16,400				
52-5213-135 Unemployment Ins	230				
52-5213-136 Worker's Comp	5,600				
52-5213-140 Uniforms/Safety Equip	500				
52-5213-250 Equipment Maintenance	500				
52-5213-253 Transfer Out-Garage Operations	5,000				
52-5213-254 Veh Operation/Maint	3,000				
52-5213-255 RSI Fuel	12,000				
52-5213-270 Line Operation/Maint (Reserve)	5,000				
52-5213-281 Electricity	20,000				
52-5213-480 Chemicals	10,000				
52-5213-740 Equipment Purchase	6,000				
Total Recycled Water Delivery:	158,330	0	0	0	

Total Sewer Expense: 978,762 861,380 826,034 918,304

Net Profit (Loss) (170,562) (53,180) (17,834) 1,195

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Results for 0903088-01

California City
 21000 Hacienda Blvd.
 California City, CA 93505

Project:
 Project Number:
 COC Num:
 Project Manager:

CL2 Contact/Sludge Storage Pile
 [none]
 Greg Fielding

Reported:
 07/20/09 09:02

Sampling Location:
 Sample Name:
 CL2 Contact
 3/6/2009

Sampled By:
 Sample Depth:
 Sample Matrix:
 Greg Fielding
 Water

Organochlorine Pesticides and PCB's (EPA Method 8080)

Analyte Result MDL PQL Units Dilution Analysis Analyzed Analyst Instrum Batch Method Prep Prepared Notes

Aldrin	ND	0.0013	0.0050	ug/L	1.020	EPA-8080	3/16/09	JYT	GC-1	BSC1123	EPA 3510C	3/10/09	
alpha-BHC	ND	0.0011	0.0050	"	"	"	"	"	"	"	"	"	
beta-BHC	ND	0.0021	0.0050	"	"	"	"	"	"	"	"	"	
delta-BHC	ND	0.0014	0.0050	"	"	"	"	"	"	"	"	"	
gamma-BHC	ND	0.00094	0.0050	"	"	"	"	"	"	"	"	"	
Chlordane (Technical)	ND	0.38	0.50	"	"	"	"	"	"	"	"	"	
4,4'-DDD	ND	0.0017	0.0050	"	"	"	"	"	"	"	"	"	VII
4,4'-DDE	ND	0.0019	0.0050	"	"	"	"	"	"	"	"	"	
4,4'-DDT	ND	0.00076	0.0050	"	"	"	"	"	"	"	"	"	VII
Dieldrin	ND	0.0012	0.0050	"	"	"	"	"	"	"	"	"	
Endosulfan I	ND	0.0016	0.0050	"	"	"	"	"	"	"	"	"	
Endosulfan II	ND	0.0014	0.0050	"	"	"	"	"	"	"	"	"	VII
Endosulfan sulfate	ND	0.0026	0.0050	"	"	"	"	"	"	"	"	"	VII
Endrin	ND	0.00082	0.0050	"	"	"	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0032	0.010	"	"	"	"	"	"	"	"	"	VII
Heptachlor	ND	0.0012	0.0050	"	"	"	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.00099	0.0050	"	"	"	"	"	"	"	"	"	
Methoxychlor	ND	0.0011	0.0050	"	"	"	"	"	"	"	"	"	
Toxaphene	ND	0.42	2.0	"	"	"	"	"	"	"	"	"	
PCB-1016	ND	0.20	0.20	"	"	"	"	"	"	"	"	"	
PCB-1221	ND	0.089	0.20	"	"	"	"	"	"	"	"	"	
PCB-1232	ND	0.090	0.20	"	"	"	"	"	"	"	"	"	
PCB-1242	ND	0.095	0.20	"	"	"	"	"	"	"	"	"	
PCB-1248	ND	0.025	0.20	"	"	"	"	"	"	"	"	"	
PCB-1254	ND	0.042	0.20	"	"	"	"	"	"	"	"	"	
PCB-1260	ND	0.020	0.20	"	"	"	"	"	"	"	"	"	

Total PCB's (Summation)	ND	0.10	0.20	"	"	"	"	"	"	"	"	"
<i>TCMX (Surrogate)</i>	96.5%	(LCL-UCL: 72 - 129)		1.020	EPA-8080	3/16/09	JYT	GC-1	BSC1123	EPA 3510C		3/10/09
<i>Dibutyl chlorendate (Surrogate)</i>	129%	(LCL-UCL: 82 - 177)		"	"	"	"	"	"	"	"	"

Volatile Organic Analysis (EPA Method 8260)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared Notes
Benzene	ND	0.18	0.50	ug/L	1	EPA-8260	3/13/09	SVM	MS-V9	BSC0759	EPA 5030 Water MS	3/13/09
Bromobenzene	ND	0.22	0.50	"	"	"	"	"	"	"	"	"
Bromochloromethane	ND	0.35	0.50	"	"	"	"	"	"	"	"	"
Bromodichloromethane	2.9	0.30	0.50	"	"	"	"	"	"	"	"	"
Bromoform	ND	0.24	0.50	"	"	"	"	"	"	"	"	"
Bromomethane	ND	0.21	1.0	"	"	"	"	"	"	"	"	"
n-Butylbenzene	ND	0.12	0.50	"	"	"	"	"	"	"	"	"
sec-Butylbenzene	ND	0.18	0.50	"	"	"	"	"	"	"	"	"
tert-Butylbenzene	ND	0.20	0.50	"	"	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.20	0.50	"	"	"	"	"	"	"	"	"
Chlorobenzene	ND	0.14	0.50	"	"	"	"	"	"	"	"	"
Chloroethane	ND	0.25	0.50	"	"	"	"	"	"	"	"	"
Chloroform	ND	0.23	0.50	"	"	"	"	"	"	"	"	"
Chloromethane	ND	0.20	0.50	"	"	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.20	0.50	"	"	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.37	0.50	"	"	"	"	"	"	"	"	"
Dibromochloromethane	1.3	0.23	0.50	"	"	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.46	1.0	"	"	"	"	"	"	"	"	"
1,2-Dibromoethane	ND	0.29	0.50	"	"	"	"	"	"	"	"	"
Dibromomethane	ND	0.37	0.50	"	"	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.15	0.50	"	"	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.15	0.50	"	"	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.22	0.50	"	"	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.13	0.50	"	"	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.24	0.50	"	"	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.23	0.50	"	"	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.32	0.50	"	"	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.14	0.50	"	"	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.095	0.50	"	"	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.19	0.50	"	"	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.18	0.50	"	"	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.19	0.50	"	"	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.13	0.50	"	"	"	"	"	"	"	"	"
Ethylbenzene	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.26	0.50	"	"	"	"	"	"	"	"	"
Isopropylbenzene	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	0.21	0.50	"	"	"	"	"	"	"	"	"

Methylene chloride	ND	0.27	1.0	"	"	"	"	"	"	"	"	"
Methyl t-butyl ether	ND	0.22	0.50	"	"	"	"	"	"	"	"	"
Naphthalene	ND	0.30	0.50	"	"	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.27	0.50	"	"	"	"	"	"	"	"	"
Styrene	ND	0.18	0.50	"	"	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.14	0.50	"	"	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.28	0.50	"	"	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.28	0.50	"	"	"	"	"	"	"	"	"
Toluene	ND	0.12	0.50	"	"	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.37	0.50	"	"	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.31	0.50	"	"	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.18	0.50	"	"	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.44	0.50	"	"	"	"	"	"	"	"	"
Trichloroethene	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.22	0.50	"	"	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.43	1.0	"	"	"	"	"	"	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.27	0.50	"	"	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.15	0.50	"	"	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
Vinyl chloride	ND	0.16	0.50	"	"	"	"	"	"	"	"	"
Total Xylenes	ND	0.53	1.0	"	"	"	"	"	"	"	"	"
p- & m-Xylenes	ND	0.42	0.50	"	"	"	"	"	"	"	"	"
o-Xylene	ND	0.13	0.50	"	"	"	"	"	"	"	"	"

<i>1,2-Dichloroethane-d4 (Surrogate)</i>	96.0% (LCL-UCL: 76 - 114)			1	EPA-8260	3/13/09	SVM	MS-V9	BSC0759	EPA 5030 Water MS	3/13/09
<i>Toluene-d8 (Surrogate)</i>	96.9% (LCL-UCL: 88 - 110)			"	"	"	"	"	"	"	"
<i>4-Bromofluorobenzene (Surrogate)</i>	95.5% (LCL-UCL: 86 - 115)			"	"	"	"	"	"	"	"

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared Notes
Acenaphthene	ND	0.48	2.0	ug/L	0.950	EPA-8270C	3/18/09	SKC	MS-B2	BSC1290	EPA 3510C	3/10/09
Acenaphthylene	ND	0.64	2.0	"	"	"	"	"	"	"	"	"
Aldrin	ND	0.80	2.0	"	"	"	"	"	"	"	"	"
Aniline	ND	0.46	5.0	"	"	"	"	"	"	"	"	"
Anthracene	ND	0.79	2.0	"	"	"	"	"	"	"	"	"
Benzidine	ND	4.7	20	"	"	"	"	"	"	"	"	"
Benzo[a]anthracene	ND	0.52	2.0	"	"	"	"	"	"	"	"	"
Benzo[b]fluoranthene	ND	0.66	2.0	"	"	"	"	"	"	"	"	"
Benzo[k]fluoranthene	ND	0.80	2.0	"	"	"	"	"	"	"	"	"
Benzo[a]pyrene	ND	0.73	2.0	"	"	"	"	"	"	"	"	"
Benzo[g,h,i]perylene	ND	0.94	2.0	"	"	"	"	"	"	"	"	"
Benzoic acid	ND	6.1	10	"	"	"	"	"	"	"	"	"
Benzyl alcohol	ND	0.67	2.0	"	"	"	"	"	"	"	"	"
Benzyl butyl phthalate	ND	0.59	2.0	"	"	"	"	"	"	"	"	"
alpha-BHC	ND	0.50	2.0	"	"	"	"	"	"	"	"	"
beta-BHC	ND	0.48	2.0	"	"	"	"	"	"	"	"	"

delta-BHC	ND	0.60	2.0	"	"	"	"	"	"	"	"	"	"
gamma-BHC (Lindane)	ND	0.56	2.0	"	"	"	"	"	"	"	"	"	"
bis(2-Chloroethoxy)methane	ND	0.58	2.0	"	"	"	"	"	"	"	"	"	"
bis(2-Chloroethyl) ether	ND	0.52	2.0	"	"	"	"	"	"	"	"	"	"
bis(2-Chloroisopropyl)ether	ND	0.73	2.0	"	"	"	"	"	"	"	"	"	"
bis(2-Ethylhexyl)phthalate	2.0	1.1	5.0	"	"	"	"	"	"	"	"	"	J,M03
4-Bromophenyl phenyl ether	ND	0.69	2.0	"	"	"	"	"	"	"	"	"	"
4-Chloroaniline	ND	0.87	2.0	"	"	"	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.50	2.0	"	"	"	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.68	2.0	"	"	"	"	"	"	"	"	"	"
Chrysene	ND	0.73	2.0	"	"	"	"	"	"	"	"	"	"
4,4'-DDD	ND	0.50	2.0	"	"	"	"	"	"	"	"	"	"
4,4'-DDE	ND	0.58	3.0	"	"	"	"	"	"	"	"	"	"
4,4'-DDT	ND	0.27	2.0	"	"	"	"	"	"	"	"	"	"
Dibenzo[a,h]anthracene	ND	0.92	3.0	"	"	"	"	"	"	"	"	"	"
Dibenzofuran	ND	0.81	2.0	"	"	"	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.58	2.0	"	"	"	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.66	2.0	"	"	"	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.53	2.0	"	"	"	"	"	"	"	"	"	"
3,3-Dichlorobenzidine	ND	0.88	10	"	"	"	"	"	"	"	"	"	"
Dieldrin	ND	0.52	3.0	"	"	"	"	"	"	"	"	"	"
Diethyl phthalate	ND	0.85	2.0	"	"	"	"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.55	2.0	"	"	"	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.74	2.0	"	"	"	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.99	2.0	"	"	"	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.74	2.0	"	"	"	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.85	2.0	"	"	"	"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.70	2.0	"	"	"	"	"	"	"	"	"	"
Endosulfan I	ND	2.7	10	"	"	"	"	"	"	"	"	"	"
Endosulfan II	ND	2.4	10	"	"	"	"	"	"	"	"	"	"
Endosulfan sulfate	ND	0.58	3.0	"	"	"	"	"	"	"	"	"	"
Endrin	ND	0.54	2.0	"	"	"	"	"	"	"	"	"	"
Endrin aldehyde	ND	0.86	10	"	"	"	"	"	"	"	"	"	"
Fluoranthene	ND	0.70	2.0	"	"	"	"	"	"	"	"	"	"
Fluorene	ND	0.73	2.0	"	"	"	"	"	"	"	"	"	"
Heptachlor	ND	0.60	2.0	"	"	"	"	"	"	"	"	"	"
Heptachlor epoxide	ND	0.63	2.0	"	"	"	"	"	"	"	"	"	"
Hexachlorobenzene	ND	0.71	2.0	"	"	"	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	0.59	2.0	"	"	"	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.26	2.0	"	"	"	"	"	"	"	"	"	"
Hexachloroethane	ND	0.52	2.0	"	"	"	"	"	"	"	"	"	"
Indeno[1,2,3-cd]pyrene	ND	0.92	2.0	"	"	"	"	"	"	"	"	"	"
Isophorone	ND	0.51	2.0	"	"	"	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.51	2.0	"	"	"	"	"	"	"	"	"	"
Naphthalene	ND	0.62	2.0	"	"	"	"	"	"	"	"	"	"
2-Naphthylamine	ND	6.5	20	"	"	"	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.80	2.0	"	"	"	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.82	2.0	"	"	"	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.1	5.0	"	"	"	"	"	"	"	"	"	"
Nitrobenzene	ND	0.55	2.0	"	"	"	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.45	2.0	"	"	"	"	"	"	"	"	"	"
N-Nitrosodi-N-propylamine	ND	0.59	2.0	"	"	"	"	"	"	"	"	"	"

N-Nitrosodiphenylamine	ND	0.80	2.0	"	"	"	"	"	"	"	"	"
Phenanthrene	ND	0.60	2.0	"	"	"	"	"	"	"	"	"
Pyrene	ND	0.62	2.0	"	"	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.67	2.0	"	"	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.67	5.0	"	"	"	"	"	"	"	"	"
2-Chlorophenol	ND	0.65	2.0	"	"	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.60	2.0	"	"	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.52	2.0	"	"	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	2.2	10	"	"	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	2.4	10	"	"	"	"	"	"	"	"	"
2-Methylphenol	ND	0.57	2.0	"	"	"	"	"	"	"	"	"
3- & 4-Methylphenol	ND	0.83	2.0	"	"	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.42	2.0	"	"	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.7	2.0	"	"	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.45	10	"	"	"	"	"	"	"	"	"
Phenol	ND	0.37	2.0	"	"	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.93	5.0	"	"	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.43	5.0	"	"	"	"	"	"	"	"	"

2-Fluorophenol (Surrogate)	57.8% (LCL-UCL: 36 - 98)	0.950	EPA-8270C	3/18/09	SKC	MS-B2	BSC1290	EPA 3510C	3/10/09
Phenol-d5 (Surrogate)	40.7% (LCL-UCL: 10 - 89)	"	"	"	"	"	"	"	"
Nitrobenzene-d5 (Surrogate)	66.0% (LCL-UCL: 59 - 122)	"	"	"	"	"	"	"	"
2-Fluorobiphenyl (Surrogate)	67.9% (LCL-UCL: 44 - 138)	"	"	"	"	"	"	"	"
2,4,6-Tribromophenol (Surrogate)	93.7% (LCL-UCL: 51 - 139)	"	"	"	"	"	"	"	"
p-Terphenyl-d14 (Surrogate)	70.6% (LCL-UCL: 23 - 173)	"	"	"	"	"	"	"	"

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared Notes
Total Recoverable Calcium	29	0.021	0.10	mg/L	1	EPA-200.7	3/11/09	ARD	PE-OPI	BSC0570	EPA 200.2	3/10/09
Total Recoverable Magnesium	7.6	0.019	0.050	"	"	"	"	"	"	"	"	"
Total Recoverable Sodium	180	0.053	0.50	"	"	"	"	"	"	"	"	"
Chloride	110	0.059	0.50	"	"	EPA-300.0	3/16/09	VH1	IC1	BSC1070	No Prep	3/16/09
Fluoride	1.3	0.010	0.050	"	"	"	"	"	"	"	"	"
Sulfate	100	0.21	1.0	"	"	"	"	"	"	"	"	"
Hardness as CaCO3	100	0.10	0.50	"	"	Calc	3/17/09	TMS	Calc	BSC0624	Calc	3/10/09
Total Dissolved Solids @ 180 C	590	33	33	"	3.333	EPA-160.1	3/10/09	JLR	MANUAL	BSC0825	No Prep	"
Total Cyanide	0.011	0.0032	0.0050	"	1	EPA-335.4	"	TDC	KONE-1	BSC0547	EPA 335.4 Total	3/9/09

Water Analysis (Metals)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared Notes
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Hexavalent Chromium	0.35	0.023	0.20	ug/L	1	EPA-218.6	3/6/09	VHI	IC4	BSC0600 No Prep	3/6/09	
Total Recoverable Antimony	0.46	0.23	2.0	"	"	EPA-200.8	3/11/09	PRA	PE-EL1	BSC0720 EPA 200.2	3/11/09	J
Total Recoverable Arsenic	5.1	0.82	2.0	"	"	"	"	"	"	"	"	"
Total Recoverable Beryllium	ND	0.80	10	"	"	EPA-200.7	"	ARD	PE-OP1	BSC0570 "	3/10/09	
Total Recoverable Boron	540	6.4	100	"	"	"	"	"	"	"	"	"
Total Recoverable Cadmium	ND	0.88	10	"	"	"	"	"	"	"	"	"
Total Recoverable Chromium	1.8	1.1	10	"	"	"	"	"	"	"	"	J
Total Recoverable Copper	1.0	0.78	10	"	"	"	"	"	"	"	"	J
Total Recoverable Lead	0.14	0.053	1.0	"	"	EPA-200.8	"	PRA	PE-EL1	BSC0720 "	3/11/09	J
Total Recoverable Mercury	ND	0.016	0.20	"	"	EPA-245.1	3/10/09	MEV	CETAC1	BSC0585 EPA 245.1	3/10/09	
Total Recoverable Nickel	ND	1.9	10	"	"	EPA-200.7	3/11/09	ARD	PE-OP1	BSC0570 EPA 200.2	"	
Total Recoverable Selenium	0.82	0.50	2.0	"	"	EPA-200.8	"	PRA	PE-EL1	BSC0720 "	3/11/09	J
Total Recoverable Silver	ND	2.5	10	"	"	EPA-200.7	"	ARD	PE-OP1	BSC0570 "	3/10/09	
Total Recoverable Thallium	ND	0.054	1.0	"	"	EPA-200.8	"	PRA	PE-EL1	BSC0720 "	3/11/09	
Total Recoverable Zinc	50	2.5	50	"	"	EPA-200.7	"	ARD	PE-OP1	BSC0570 "	3/10/09	

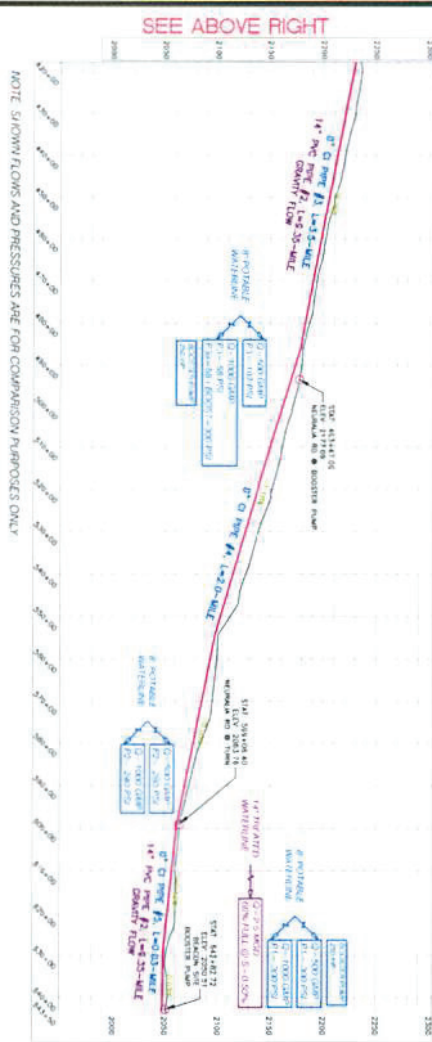
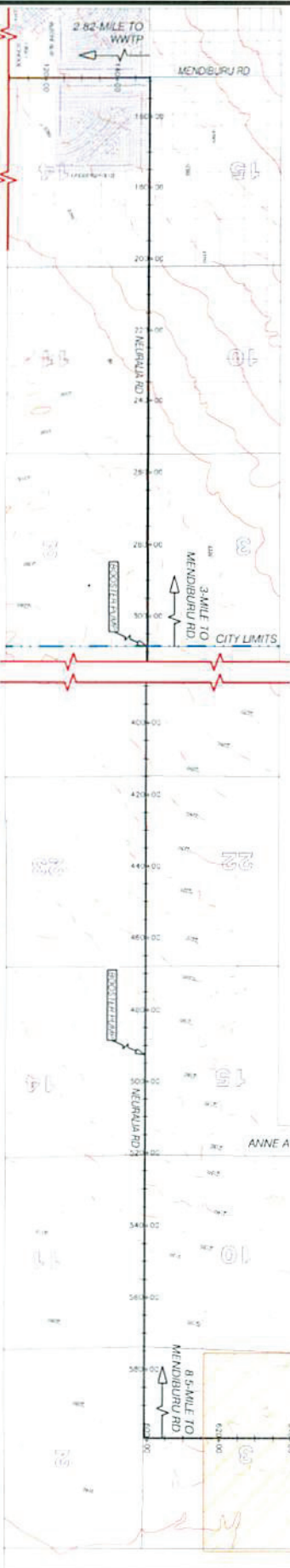
Flag Explanations

Flag	Explanation
J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
M03	Analyte detected in the Method Blank at a level between the PQL and the MDL.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

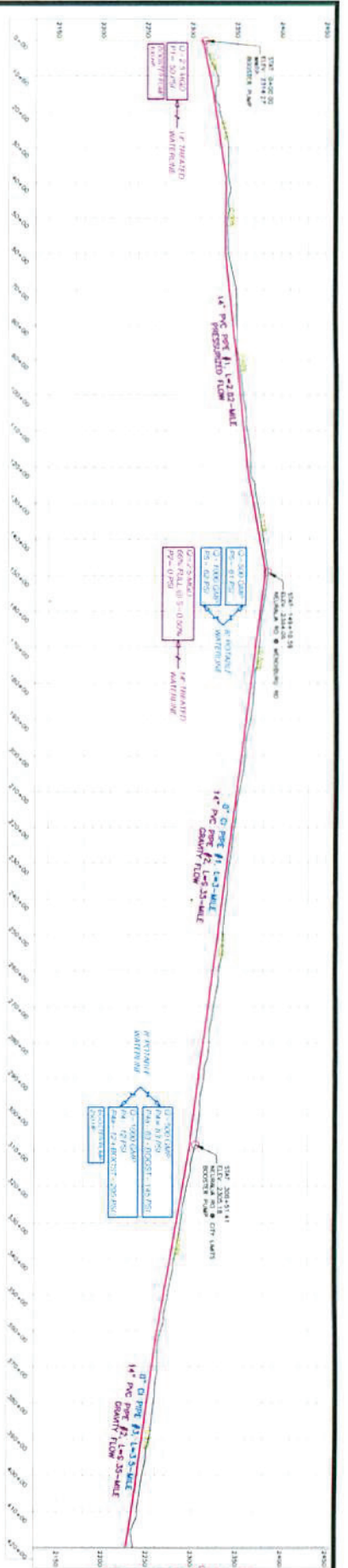
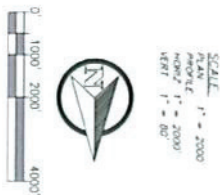
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PROPOSED
8" POTABLE WATERLINE (9.35 MILE)
and
14" TERTIARY WATERLINE (12.17 MILE)



NOTE: SHOWN FLOWS AND PRESSURES ARE FOR COMPARISON PURPOSES ONLY



SEE ABOVE RIGHT

SEE BELOW LEFT

CITY OF CALIFORNIA CITY
 KERN COUNTY, CALIFORNIA
 BEACON SOLAR/CAL CITY JOINT WATER EXCHANGE PROJECT
 PROP. 8" POTABLE WATERLINE & 14" TERTIARY WATERLINE
 PLAN & PROFILE

HELT ENGINEERING, INC.
 CIVIL ENGINEERING LAND SURVEYING BUILDING DESIGN AERIAL PHOTOGRAPHY
 2939 UNION AVE., BAKERSFIELD, CA 93305
 PHONE: (661) 323-6045 FAX: (661) 323-0799

DATE: 08.01.09
 SCALE: AS SHOWN
 DRAWN BY: JWP
 CK'D BY:
 DATE CK'D:

REVISIONS	CK'D BY	DATE CK'D	JOB NO.
			09419

SHEET
 1
 OF 1 SHEETS

**BEACON SOLAR/CAL CITY JOINT WATER EXCHANGE PROJECT
8-in POTABLE WATERLINE
AND
14-in TERTIARY WATERLINE**

POTABLE WATERLINE FROM BEACON TO NEURALIA RD. @ MENDIBURU RD.					
ITEM		QUANTITY		UNIT COST	TOTAL COST
				(\$/ft)	(\$)
1	8" CAST IRON PIPE	9.35-mile	49,368 ft	\$ 160.00	\$ 7,898,900.00
2	BOOSTER STATION	---	3 ea.	\$ 800,000.00	\$ 2,400,000.00
3	CHLORINATION STATION	---	1 ea.	\$ 75,000.00	\$ 75,000.00
4	WELL STUDY/CONVERSION	--	1 ea.	\$ 30,000.00	\$ 30,000.00

8" CI Potable Waterline Total: \$ 10,403,900.00

TERTIARY LINE ON (A) NEURALIA RD - FROM BEACON TO MENDIBURU RD. & (B) ON MENDIBURU RD. FROM NEURALIA RD. TO WWTP					
ITEM		QUANTITY		UNIT COST	TOTAL COST
				(\$/ft)	(\$)
1	(A) 14" C-905 PVC PIPE	9.35-mile	49,368 ft	\$ 150.00	\$ 7,405,200.00
2	(B) 14" C-905 PVC PIPE	2.82-mile	14,900 ft	\$ 150.00	\$ 2,235,000.00
3	BOOSTER STATION	--	1 ea.	\$ 800,000.00	\$ 800,000.00

14" PVC Tertiary Waterline Total: \$ 10,440,200.00

GRAND TOTAL \$ 20,844,100.00



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 *BEACON SOLAR ENERGY*
PROJECT

Docket No. 08-AFC-2

PROOF OF SERVICE
(Revised 4/28/09)

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DECLARATION OF SERVICE

I, Teraja` Golston, declare that on August 13, 2009, I served and filed copies of the attached Beacon Solar (08-AFC-2) California City Water Supply Proposal. 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:

[www.energy.ca.gov/sitingcases/beacon]. The document has 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;

 x by personal delivery or by depositing in the United States mail at Sacramento with first-class postage 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:

 x 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, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. _____

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.

Teraja` Golston

Declaration

I, Janet M. Laurain, declare as follows:

1. I am a paralegal at Adams Broadwell Joseph & Cardozo. I make this declaration from my personal knowledge. If called as a witness, I could testify competently to facts stated in this declaration.

2. Exhibit 657 is a true and correct copy of Rosamond Community Services District Letter of Intent dated August 14, 2009. I downloaded and printed this document on March 15, 2010 from:

[http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-14) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF)

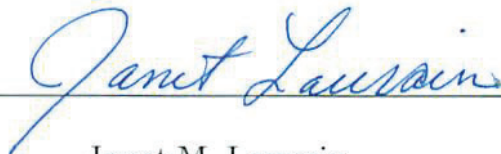
[14\) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-09-14) Revised Rosamond Commnty Servcs Dist Letter of Intent TN-53088.PDF), a website purporting to be maintained by the California Energy Commission.

3. Exhibit 658 is a true and correct copy of California City Recycled Water Supply Proposal dated and posted August 13, 2009. I downloaded and printed this document on March 15, 2009 from

[http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08-](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08-13 California City Recycled Water Supply Proposal NT-52865.PDF)

[13 California City Recycled Water Supply Proposal NT-52865.PDF](http://www.energy.ca.gov/sitingcases/beacon/documents/other/2009-08-13 California City Recycled Water Supply Proposal NT-52865.PDF), a website purporting to be maintained by the California Energy Commission.

4. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this 18 day of March, 2010, at South San Francisco, California.



Janet M. Laurain