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

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

<u>Description</u>	<u>Miles</u>	<u>Qty</u>	<u>Unit</u>	Unit Cost	<u>Beacon</u>	Cal City	Total Cost
Tertiary Line on (A) Neuralia from Beacon t	o Mendib	ıru 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/B	uild	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 Av	g. Af/Yr					
2007 Effluent 846 Af/Yr with 1,461RE =	0.57 AF/Y	r/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		\	Lacii	ψ1,300,000.00	457,500.00		457,500.00
Sewerline Collection Equipment		1	Each	\$500,000.00	437,300.00	500,000.00	437,300.00
Golf Course Irrigation Upgrades		1	Each	\$2,000,000.00		2,000,000.00	2,000,000.00
** New Sewer Revenue [\$23.46 x 12 x 2	2,354 = \$6	62,698.08]					
+ Engineering Included							
Contingency/Legal/Financial					250,000.00		
Project Management					440,000.00		
Preliminary Engineering						200,000.00	
			Γotal Proje	ct Cost:	43,342,700.00	8,585,000.00 **	51,927,700.00

2009/10 BUDGET PROPOSAL

				.8 MGD	1.7 MGD		
		2008/09	2009/10	Capacity 2013/14	Capacity 2013/14		
Acct No	Account Description	Budget	Proposed	Proposed	Proposed		
Liabilities	Account Description	Buuget	1 Toposeu	Troposeu	TToposeu		
52-02511	Long Term Bonds	1,865,000.00					
52-02521	Bond Interest Payment	21,028.99					
Revenue							
Op Revenue						Customers	2,450
52-3731	Residential	457,000.00	457,000.00	457,000.00	698,544.00	Monthly Rate	\$23.76
52-3733	Connections	0.00	0.00	0.00	122,500.00	Connect Years:	30
52-3734	Commercial	329,000.00	329,000.00	329,000.00	0.00	Connect Rate:	\$1,500.00
	Recycled Water				256,785.00	AVEK AF Rate:	\$265.00
	Total Op Revenue	786,000.00	786,000.00	786,000.00	1,077,829.00	Purple Percent:	68%
						Purple Rate:	\$180.20
Non Op Reve	enue					Purple AF:	1,425
52-3612	Investment Earnings	5,200.00	5,200.00	5,200.00	0.00		
52-3997	Aspen Ave Sewer Assess	17,000.00	17,000.00	17,000.00	0.00		
	Total Non Op Revenue	22,200.00	22,200.00	22,200.00	0.00		
	Total Revenue:	808,200.00	808,200.00	808,200.00	1,077,829.00		
Expense							
Sewer Admir	nistration						
52-5211-110	Regular Salaries	32,455.00	32,455.00	10,385.60	22,069.40	Admin Rate:	68%
52-5213-112	Premium Overtime	1,500.00	1,500.00	480.00	1,020.00		
52-5213-132	Medicare	471.00	471.00	150.72	320.28		
52-5213-133	Cafeteria Plan	7,200.00	7,200.00	2,304.00	4,896.00		
52-5213-134	Retirement	8,944.00	8,944.00	2,862.08	6,081.92		
52-5213-135	Unemployment Ins	158.00	158.00	50.56	107.44		
52-5213-136	Worker's Comp	302.00	302.00	96.64	205.36		
52-5211-143	Educational Incentive	500.00	500.00	160.00	340.00		
52-5211-242	Admin Copy Expense	450.00	450.00	144.00	306.00		
	Total Sewer Administration	51,980.00	51,980.00	16,633.60	35,346.40		

Treatment &	Disposal										
52-5213-110	Regular Salaries	183,957	186,000	186,000	62,000						
52-5213-111	Straight Overtime	6,500	17,800	17,800	0						
52-5213-112	Premium Overtime	13,488	31,700	31,700	0		E	End			Balance
52-5213-132	Medicare	2,957	3,400	3,400	1,100		Y	ear	Interest	Principle	8,585,000
52-5213-133	Cafeteria Plan	32,640	32,640	32,640	11,000			1	300,475	166,303	8,418,697
52-5213-134	Retirement	47,948	49,240	49,240	16,400			2	294,654	172,123	8,246,574
52-5213-135	Unemployment Ins	714	720	720	230			3	288,630	178,148	8,068,426
52-5213-136	Worker's Comp	13,238	16,800	16,800	5,600			4	282,395	184,383	7,884,043
52-5213-140	Uniforms/Safety Equip	3,500	3,500	3,500	1,100			5	275,941	190,836	7,693,206
52-5213-210	Subscr/Books/Dues	1,000	1,000	1,000	500			6	269,262	197,516	7,495,691
52-5213-230	Travel/Lodging/Reg	500	2,000	2,000	750			7	262,349	204,429	7,291,262
52-5213-241	Office Supplies	4,000	7,800	7,800	0			8	255,194	211,584	7,079,678
52-5213-250	Equipment Maintenance	5,000	7,000	7,000	7,000			9	247,789	218,989	6,860,689
52-5213-253	Transfer Out-Garage Operations	55,000	55,000	55,000	0			10	240,124	226,654	6,634,036
52-5213-254	Veh Operation/Maint	4,000	5,200	5,200	5,200			11	232,191	234,587	6,399,449
52-5213-255	RSI Fuel	12,600	12,600	12,600	12,600			12	223,981	242,797	6,156,652
52-5213-270	Bldg Operation/Maint	3,000	3,300	3,300	0			13	215,483	251,295	5,905,357
52-5213-281	Electricity	105,000	110,000	110,000	220,000			14	206,687	260,090	5,645,266
52-5213-282	Gas	0	3,000	3,000	6,000			15	197,584	269,194	5,376,073
52-5213-284	Telephone	4,200	7,300	7,300	0			16	188,163	278,615	5,097,457
52-5213-310	Professional Services	4,000	0	0	0			17	178,411	288,367	4,809,090
52-5213-314	Lab Sampling	13,000	18,000	18,000	18,000			18	168,318	298,460	4,510,631
52-5213-315	Helt Engineering	30,000	0	0	0			19	157,872	308,906	4,201,725
52-5213-450	Special Depart Supp	5,000	7,200	7,200	0			20	147,060	319,718	3,882,007
52-5213-480	Chemicals	78,500	20,000	20,000	40,000			21	135,870	330,908	3,551,100
52-5213-510	Liability Insurance	7,040	8,700	8,700	8,700			22	124,288	342,489	3,208,610
52-5213-610	Licenses & Permits	14,000	20,000	20,000	0	Current Paymen	142,500	23	112,301	354,477	2,854,134
52-5213-630	Other Contracts	46,500	27,000	27,000	0	Current Pmt %:	18.13%	24	99,895	366,883	2,487,251
52-5213-632	Software License	12,000	10,000	10,000	0			25	87,054	379,724	2,107,527
52-5213-720	Buildings	25,000	0	0	0	Recycle Pmt		26	73,763	393,014	1,714,512
52-5213-730	Non-Building Improvements	25,000	0	0	0	Annual Interest:	3.50%	27	60,008	406,770	1,307,742
52-5213-740	Purchase of Equipment	25,000	0	0	0	Years:	30	28	45,771	421,007	886,735
52-5213-810	Principle Payment	35,000	35,000	35,000	166,303	Principle:	\$8,585,000	29	31,036	435,742	450,993
52-5213-820	Interest Expense	107,500	107,500	107,500	300,475	Annual Payment:	(\$466,777.88)	30	15,785	450,993	0
	Treatment & Disposal Totals:	926,782	809,400	809,400	882,958						

Recycle Pmt %: 43.31%

Recycled Wa	ter 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:	0	0	0	158,330
	Total Sewer Expense:	978,762	861,380	826,034	918,304
	Net Profit (Loss)	(170,562)	(53,180)	(17,834)	1,195

Laboratories, Inc.

Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #0903088-01 Log In Help Log Out Search Work List Work Order < 01 > Data Selection Results for 0903088-01 Project: CL2 Contact/Sludge Storage Pile California City Project Number: [none] Reported: 21000 Hacienda Blvd. 07/20/09 09:02 COC Num: California City, CA 93505 Project Manager: Greg Fielding Sampling Location: Sampled By: Greg Fielding Sample Name: **CL2 Contact** Sample Depth: Sample Date: 3/6/2009 Sample Matrix: Water

Organochlorine Pesticides and PCB's (EPA Method 8080)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	l 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 (Lindane)	ND	0.00094	0.0050	"	"	"	"	"	"	"	"	"	
Chlordane (Technical)	ND	0.38	0.50	"	"	"	"	"	"	"	"	"	
4,4'-DDD	ND	0.0017	0.0050	"	"	"	"	"	"	"	"	"	V11
4,4'-DDE	ND	0.0019	0.0050	"	"	"	"	"	"	"	"	"	
4,4'-DDT	ND	0.00076	0.0050	"	"	"	"	"	"	"	"	"	V11
Dieldrin	ND	0.0012	0.0050	"	"	"	"	"	"	"	"	"	
Endosulfan I	ND	0.0016	0.0050	"	"	"	"	"	"	"	"	"	
Endosulfan II	ND	0.0014	0.0050	"	"	"	"	"	"	"	"	"	V11
Endosulfan sulfate	ND	0.0026	0.0050	"	"	"	"	"	"	"	"	"	V11
Endrin	ND	0.00082	0.0050	"	"	"	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0032	0.010	"	"	"	"	"	"	"	"	"	V11
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	0.020	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	"	"	"	"	"	"	"	"	u
TCMX (Surrogate)	96.5%	% (LCL-UC	L: ⁷² -		1.020	EPA-808	30 3/16/09	JYT	GC-1	BSC112	3 EPA 3 3510C	3/10/09
Dibutyl chlorendate (Surrogate)	129%	(LCL-UC	L: ⁸² -		"	"	"	"	"	"	"	"

Volatile Organic Analysis (EPA Method 8260)

Analyte	Resul	lt	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	"	"	"	"	"	"	"	"	n .
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		0.14		0.50	"	"	"	"	"	"	"	"	n .
1,2-Dichloropropane	ND	0.16		0.50		"	"	"	"	"	"	"	n .
1,3-Dichloropropane	ND	0.095	5	0.50		"	"	"	"	"	"	"	n .
2,2-Dichloropropane	ND	0.19		0.50		"	"	"	"	"	"	"	n .
1,1-Dichloropropene	ND	0.18		0.50		"	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.19		0.50		"	"	"	"	"	"	"	"
trans-1,3-Dichloropropene		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	0.10		0.50		"	"	"	"	"	"	"	"
r isopropynomene	עויו	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	"	"	"	"	"	"	"	"	"
1,2-Dichloroethane-d4 (Surrogate)	96.0%	6 (LCL-UCL	114)		1	EPA-8260) 3/13/09	SVM	MS-V9	BSC0759	EPA 5030 Water MS	3/13/09
Toluene-d8 (Surrogate)	96.9%	(LCL-UCL	· ⁸⁸ - 110)		"	"	"	"	"	"	"	"
4-Bromofluorobenzene (Surrogate)	95.5%	(LCL-UCL	. 86 - 115)		"	"	"	"	"	"	"	"

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

Analyte	Resu	lt	MDL PQI	L Unit	s Dilution	Analysis	Analyzed	l Analys	t 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	"	"	"	"	"	"	"	"	"

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delta-BHC	ND	0.60	2.0	"	"	"	"	"	"	"	"	"
gamma-BHC (Lindane)	ND	0.56	2.0	"	"	"	"	"	"	"	"	"
bis(2-	ND	0.58	2.0	"	"	"	"	"	"	"	"	"
Chloroethoxy)methane												
bis(2-Chloroethyl) ether	ND	0.52	2.0	"	"	"	"	"	"	"	"	"
bis(2-Chloroisopropyl)ether	r ND	0.73	2.0	"	"	"	"	"	"	"	"	"
bis(2-	2.0	1.1	5.0	"	"	"	"	"	"	"	"	"
Ethylhexyl)phthalate												
4-Bromophenyl phenyl ether	ND	0.69	2.0	"	"	"	"	"	"	"	"	"
4-Chloroaniline	ND	0.87	2.0	,,	,,	"	"	,,	"	"	"	"
	ND	0.87	2.0	"	"	"	"	,,	"	"	"	"
2-Chloronaphthalene	ND	0.30	2.0									
4-Chlorophenyl phenyl ether	ND	0.68	2.0	"	"	"	"	"	"	"	"	"
Chrysene	ND	0.73	2.0	"	"	"	"	"	"	"	"	"
4,4'-DDD	ND	0.73	2.0	"	"	"	,,	,,	"	"	"	"
4,4'-DDE	ND	0.58	3.0	"	"	"	,,	,,	"	"	"	,,
4,4'-DDT	ND	0.38	2.0	"	"	"	,,	,,	"	"	"	,,
Dibenzo[a,h]anthracene	ND	0.27	3.0	,,	,,	"	"	,,	"	"	"	,,
Dibenzo[a,n]anthracene Dibenzofuran			2.0	"	,,	"	"	,,	"	"	"	"
	ND	0.81		"	,,	"	"	,,	,,	,,	"	"
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	e 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		0.59	2.0	"	"	"	"	"	"	"	"	"
1 17												

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-methylpheno	l 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-82700	C 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	S Dilution	Analysis	Analyzed	l 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-OP1	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	5 3/6/09	VH1	IC4	BSC0600	No Prep	3/6/09	
Total Recoverable Antimony	0.46	0.23	2.0	"	"	EPA-200.8	3 3/11/09	PRA	PE-EL1	BSC0720	EPA 200.2	3/11/09	J
Total Recoverable Arsenie	c 5.1	0.82	2.0	"	"	"	"	"	"	"	"	"	
Total Recoverable Beryllium	ND	0.80	10	"	"	EPA-200.7	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	3 "	PRA	PE-EL1	BSC0720	"	3/11/09	J
Total Recoverable Mercury	ND	0.016	0.20	"	"	EPA-245.1	1 3/10/09	MEV	CETAC1	BSC0585	EPA 245.1	3/10/09	
Total Recoverable Nickel	ND	1.9	10	"	"	EPA-200.7	7 3/11/09	ARD	PE-OP1	BSC0570	EPA 200.2	"	
Total Recoverable Selenium	0.82	0.50	2.0	"	"	EPA-200.8	3 "	PRA	PE-EL1	BSC0720	"	3/11/09	J
Total Recoverable Silver	ND	2.5	10	"	"	EPA-200.7	7 ''	ARD	PE-OP1	BSC0570	"	3/10/09	
Total Recoverable Thallium	ND	0.054	1.0	"	"	EPA-200.8	3 "	PRA	PE-EL1	BSC0720	"	3/11/09	
Total Recoverable Zinc	50	2.5	50	"	"	EPA-200.7	7 "	ARD	PE-OP1	BSC0570	"	3/10/09	

Flag Explanations

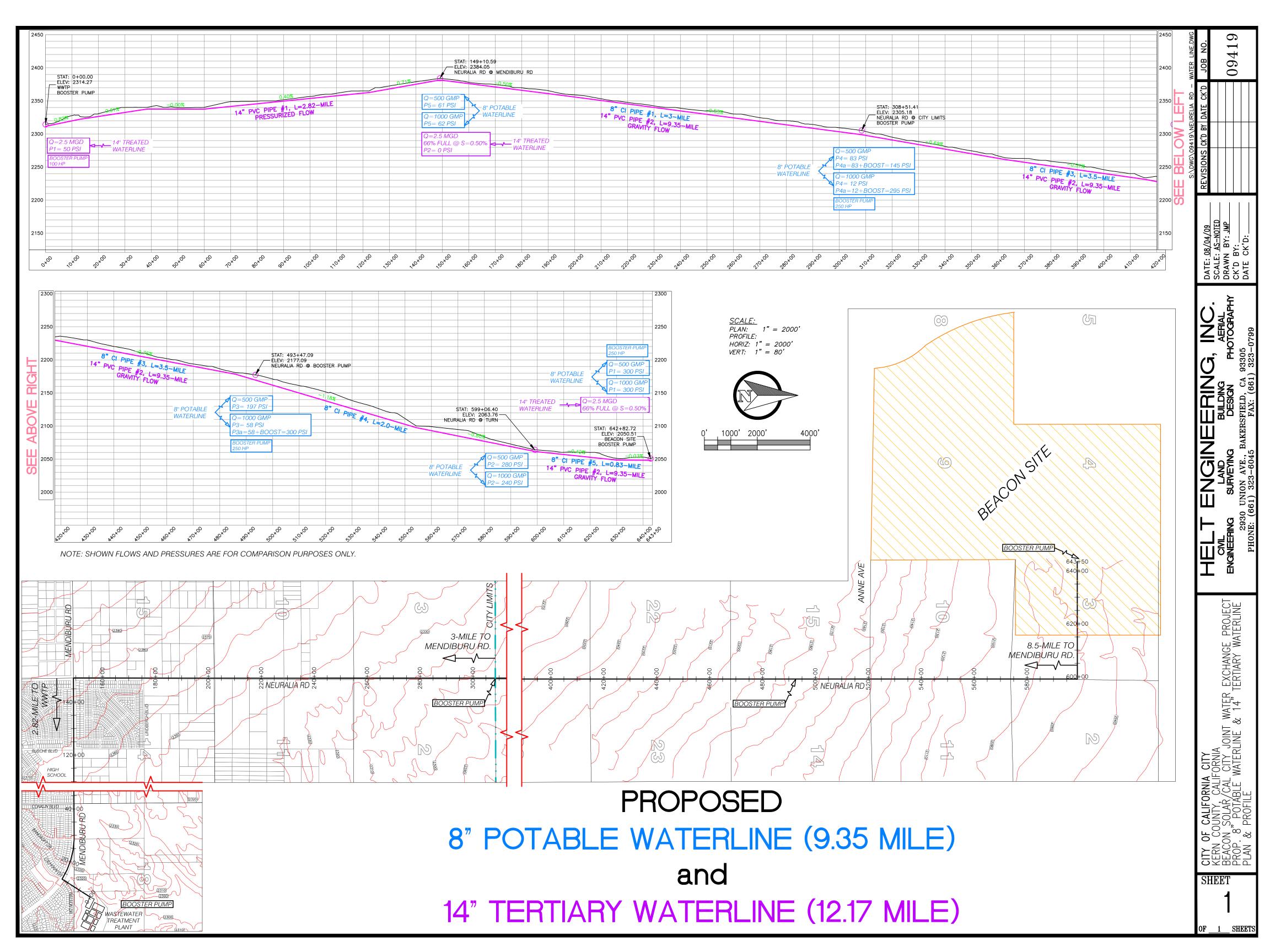
Flag	Explanation
J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
M03	Analyte detected in the Method Blank at a level between the PQL and the MDL.
V11	The Continuing Calibration Verification (CCV) recovery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

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6.) PM/Chondolo C. ITIDARTE OPPTION 0.1... 7/04/9000 10.50.90 PM PW/C F. PDF



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				JNIT 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	ANTITY		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)

APPLICANT

Scott Busa
Kenneth Stein, J.D.,
Meg Russell
Duane McCloud
Guillermo Narvaez, P.E.
Nextera Energy Resources, LLC
700 Universe Blvd.
Juno Beach, FL 33408
Scott.Busa@Nexteraenergy.com
Kenneth.Stein@Nexteraenergy.com
Meg.Russell@Nexteraenergy.com
Duane.McCloud@Nexteraenergy.com
Guillermo.Narvaez@Nexteraenergy.com

*Diane Fellman
Director West Region
NextEra Energy Resources
234 Van Ness Avenue
San Francisco, CA 94102
Diane.fellman@nesteraenergy.com

APPLICANT'S CONSULTANTS

Sara Head, Vice President AECOM Environment 1220 Avenida Acaso Camarillo, CA 93012 sara.head@aecom.com

Bill Pietrucha, Project Manager Jared Foster, P.E., Mechanical Engineer Worley Parsons 2330 E. Bidwell Street, Suite 150 Folsom, CA 95630 Bill.Pietrucha@worleyparsons.com Jared.Foster@worleyparsons.com

COUNSEL FOR APPLICANT

Jane Luckhardt, Attorney at Law Downey Brand Attorneys LLP 621 Capital Mall, 18th Floor Sacramento, CA 95814 <u>iluckhardt@downeybrand.com</u>

INTERESTED AGENCIES

California ISO e-recipient@caiso.com

INTERVENORS

Tanya A. Gulesserian
Marc D. Joseph
Adams Broadwell
Joseph & Cardozo
601 Gateway Boulevard,
Suite 1000
South San Francisco, CA 94080
E-mail Preferred
tgulesserian@adamsbroadwell.com

ENERGY COMMISSION

KAREN DOUGLAS
Chairman and Presiding Member
KLdougla@energy.state.ca.us

JEFFREY D. BYRON Commissioner and Associate Member Jbyron@energy.state.ca.us

Kenneth Celli Hearing Officer kcelli@energy.state.ca.us

Eric K. Solorio
Project Manager
esolorio@energy.state.ca.us

Jared Babula Staff Counsel ibabula@energy.state.ca.us

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

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