TABLE 2
METALS CONCENTRATIONS IN WATER
Panoche Energy Center
Fresno County, California

Well Identification		Lower Confined Aquifer				Upper Confined Aquifer				Semi-Confined Aquifer				City of Mendota			City of Firebaugh			Water Quality Limits For Constituents[a]					
		MW-1				MW-2				MW-3				2006 Consumer Confidence Report			2006 Consumer Confidence Report			CDHS[b]		USEPA[c]			
Sample Identification		MW-1	MW-4 (Blind Duplicate of MW-1)	MW-1		MW-2	MW-5 (Blind Duplicate of MW-2)	MW-2						Level Detected	Range of Detections		Level Detected	Range of Detections		Primary MCL[d]	Secondary MCL[e]	Primary MCL	Secondary MCL	CA PHG[f]	Ag Water Quality Limits[g]
Constituent	Units	Sample Date 10/25/2006	10/25/2006	2/16/2007	4/11/2007	10/25/2006	10/25/2006	2/16/2007	4/11/2007	10/27/2006	2/16/2007	4/11/2007	Treatment		Low	High		Low	High						
Aluminum	mg/L[h]	< 0.050	< 0.050	0.61	<0.050	< 0.050	< 0.050	<0.050	<0.050	< 0.050	<0.050	<0.050													
Antimony	mg/L	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050													
Arsenic	mg/L	< 0.010	< 0.010	0.016	<0.010	< 0.010	< 0.010	<0.010	<0.010	< 0.010	<0.010	<0.010		3.3 ppb	ND	8.0 ppb	23.6 ppb	5.7 ppb	56 ppb						
													Treatment Site 1				21.5 ppb	16 ppb	29 ppb						
													Treatment Site 2				14.8 ppb	5.9 ppb	20 ppb						
Barium	mg/L	0.19	0.18	0.046	0.012	0.16	0.16	0.017	<0.010	0.14	0.013	0.011					0.76	ND	0.17	1		2		0.7	
Beryllium	mg/L	< 0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010													
Boron	mg/L	**2.9**	**3.0**	**2.9**	**2.7**	**1.6**	**1.7**	**1.7**	**1.7**	**4.1**	**4.2**	**4.1**					0.4 ppm			-	-	-	-	-	0.7 or 0.75
Cadmium	mg/L	< 0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010													
Calcium	mg/L	11	11	13	8.6	20	20	15	16	170	180	170								-	-	-	-	-	-
Chromium	mg/L	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	0.020	<0.0050													
Cobalt	mg/L	< 0.0020	< 0.0020	<0.0020	<0.0020	< 0.0020	< 0.0020	<0.0020	<0.0020	< 0.0020	<0.0020	<0.0020													
Copper	mg/L	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050													
Iron	mg/L	**5.9**	**5.8**	**45**	0.14	**3.9**	**3.3**	**42**	**0.45**	< 0.10	**5.3**	<0.10	Before Treatment	0.11 ppb	ND	0.22 ppb	120 ppb	ND	290 ppb	-	0.3	-	0.3	-	5
													After Treatment / Treatment Site 1	0.08 ppb	ND	0.23 ppb	1.6 ppb	ND	84 ppb						
													Treatment Site 2				7.2 ppb	ND	240 ppb						
Lead	mg/L	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050													
Magnesium	mg/L	3.1	3.2	3.7	3.1	1.4	1.5	1.1	0.87	170	180	170								-	-	-	-	-	-
Manganese	mg/L	**0.12**	**0.12**	**0.36**	0.026	**0.08**	**0.076**	**0.29**	**0.057**	**0.064**	**0.13**	0.047	Before Treatment	0.018 ppb	ND	0.026 ppb	296 ppb	44 ppb	580 ppb	-	0.05	-	0.05	-	2
													After Treatment / Treatment Site 1	0.36 ppb	ND	0.36 ppb	7 ppb	ND	240 ppb						
													Treatment Site 2				1.3 ppb	ND	57 ppb						
Mercury	mg/L	< 0.0002	< 0.0002	<0.00020	<0.00020	< 0.0002	< 0.0002	<0.00020	<0.00020	< 0.0002	<0.00020	<0.00020													
Molybdenum	mg/L	**0.04**	**0.041**	**0.035**	0.030	**0.023**	**0.022**	**0.016**	**0.022**	0.0056	0.0058	0.0070								-	-	-	-	-	0.01
Nickel	mg/L	< 0.0050	< 0.0050	0.0055	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050													
Potassium	mg/L	4.7	4.9	6.6	5.7	4.2	4.3	7.9	6.0	16	17	16								-	-	-	-	-	-
Selenium	mg/L	< 0.020	< 0.020	<0.020	<0.020	< 0.020	< 0.020	<0.020	<0.020	**0.025**	**0.028**	**0.027**					2 ppb	ND	5.4 ppb	0.05	-	0.05	-	-	0.02
Silica (SiO2)	mg/L	31	32	40	15	33	33	38	31	46	43	43								-	-	-	-	-	-
Silicon	mg/L	14	15	19	7.1	15	15	18	15	21	20	20								-	-	-	-	-	-
Silver	mg/L	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050													
Sodium	mg/L	**300**	**310**	**330**	**310**	**220**	**230**	**260**	**250**	**380**	**430**	**390**		126 ppm	83 ppm	160 ppm	147.2 ppm	81 ppm	250 ppm	-	-	-	-	-	69
Strontium	mg/L	0.114	0.118	0.176	0.0917	0.051	0.0509	0.162	0.0931	2.47	2.48	2.42								-	-	-	-	-	-
Thallium	mg/L	< 0.020	< 0.020	<0.020	<0.020	< 0.020	< 0.020	<0.020	<0.020	< 0.020	<0.020	<0.020													
Tin	mg/L	< 0.010	< 0.010	<0.010	<0.010	< 0.010	< 0.010	<0.010	<0.010	< 0.010	<0.010	<0.010													
Titanium	mg/L	< 0.010	< 0.010	0.0289	<0.0100	< 0.010	< 0.010	<0.0100	<0.0100	< 0.010	<0.0100	<0.0100													
Vanadium	mg/L	< 0.010	< 0.010	<0.010	<0.010	< 0.010	< 0.010	<0.010	<0.010	< 0.010	<0.010	<0.010					5.6 ppb								
Zinc	mg/L	0.015	0.017	0.012	<0.0050	0.027	0.027	0.011	<0.0050	0.024	<0.0050	<0.0050									5		5		2

Note: Values shown in bold print exceed one or more water quality limits shown on right.
[a] Water quality limits for detected constituents summarized from A Compilation of Water Quality Goals, August, 2003, Regional Water Quality Control Board, Central Valley Region
[b] California Department of Health Services
[c] U.S. Environmental Protection Agency
[d] Primary Maximum Contaminant Level
[e] Secondary Maximum Contaminant Level
[f] California Office of Environmental Health Hazard Assessment Public Health Goal in Drinking Water

[g] Agricultural Water Quality Limits from Ayers, R.S. and D.W. Westcot, Water Quality for Agriculture, Food and Agriculture Organization of the United Nations - Irrigation and Drainage Paper No. 29, Rev. 1, Rome, 1965 as summarized in A Compilation of Water Quality Goals, August, 2003
[h] mg/L = milligrams per liter