TABLE 4.5-31
CONTRA COSTA POWER PLANT CONCENTRATION ESTIMATES

		Concentrations in Micrograms per Cubic Meter ($\mu g/m^3$)							
					Power Plant Effect/Total Concentration[b]				
Pollutant	**Averaging Period**	**State Standard**	**National Standard**	**Delta Region Background**	**1999 Baseline**	**1999 Analytical Maximum**	**2005 Cumulative Analytical Maximum[d]**	**Difference between 1999 Analytical Maximum and Baseline**	**Difference between 2005 Cumulative Analytical Maximum and Baseline**
Carbon Monoxide	1 hour	23,000	40,000	6,517	81.1/6,598	81.1/6,598	81.1/6,804	0	0
	8 hours	10,000	10,000	3,297	56.7/3,354	56.7/3,354	56.7/3,498	0	0
Nitrogen Dioxide	1 hour[c]	470	NA	132	135.4/267	135.4/267	17.7/150	0	-117.7
	annual	NA	100	31	11.8/43	24.6/56	3.7/35	12.8	-8.1
Sulfur Dioxide	1 hour	655	NA	87	0.6/88	0.6/88	0.6/88	0	0
	24 hours	105	365	24	0.2/24	0.2/24	0.2/24	0	0
	annual	NA	80	3	0.2/3.2	0.3/3.3	0.3/3.3	0.1	0.1
Particulate Matter (PM-10)	24 hours	50	150	**60**	2.9/**62.9**	2.9/**62.9**	2.9/**62.9**	0	0
	annual	30	50	22	1.3/23.3	2.6/24.6	2.3/24.3	1.3	1
Particulate Matter (PM-2.5)	24 hours	NA	65	ND	2.9/2.9	2.9/2.9	2.9/2.9	0	0
	annual	NA	15	ND	1.3/ND	2.6/ND	2.3/ND	1.3	1

a Maximum contributions have been combined from the two units. No offsite location would reach these levels. Background concentrations (except for annual averages) represent the average of the 2nd highest values recorded each year from 1994 to 1996 at the Bethel Island monitoring station.

b In these columns, the number on the left shows the contributions of the power plants; the number on the right is the total contribution, including the Delta Region background.

c Maximum NO2 concentrations from the power plant were calculated using the Ozone Limiting Method (Cole and Summerhays, 1979) based on a worst-case background ozone concentration of 133 micrograms per cubic meter.

d The 2005 Cumulative Analytical Maximum assumes new owners will have to comply with a modified BAAQMD Regulation 9, Rule 11 emission rate schedule similar to the existing schedule.

NA: Not applicable
ND: Not determined; PM-2.5 ambient monitoring has only recently begun in the Bay Area.

Values shown in bold type exceed a corresponding ambient air quality standard.