

**Table 00-10. Selected Non-Radiological Constituents
in Lake Carlsbad Surface Water Samples Collected During 2000**

See CEMRC 2000 Report "Radiological and non-radiological constituents in surface water and sediments
at selected reservoirs" for descriptions of locations and methods of data collection.

Analyte	Collection Date and Sampling Depth					
	May 24, 2000 (0.5 m depth)			May 24, 2000 (2.1 m depth)		
	Method	^a MDL (mg/L)	Result (mg/L)	Method	MDL (mg/L)	Result (mg/L)
Ag	^b ICPMS	8.66E-06	<MDL	ICPMS	8.66E-06	<MDL
Al	ICPMS	5.13E-02	1.81E-01	ICPMS	5.13E-02	2.15E-01
As	^c AA	4.40E-05	1.11E-03	AA	4.40E-05	1.20E-03
Ba	ICPMS	3.44E-04	2.56E-02	ICPMS	3.44E-04	2.63E-02
Be	ICPMS	5.00E-05	<MDL	ICPMS	5.00E-05	<MDL
Ca	ICPMS	8.58E+00	4.19E+02	ICPMS	8.58E+00	4.13E+02
Cd	ICPMS	5.00E-05	<MDL	ICPMS	5.00E-05	8.99E-05
Ce	ICPMS	5.66E-05	1.48E-04	ICPMS	5.66E-05	2.07E-04
Chloride	^d IC	8.00E-01	6.88E+02	IC	8.00E-01	6.81E+02
Co	ICPMS	4.66E-05	4.67E-03	ICPMS	4.66E-05	5.22E-03
Cr	ICPMS	2.89E-04	1.31E-03	ICPMS	2.89E-04	2.19E-03
Cu	ICPMS	7.22E-04	6.51E-03	ICPMS	7.22E-04	1.13E-02
Dy	ICPMS	7.99E-06	8.53E-06	ICPMS	7.99E-06	7.83E-06
Er	ICPMS	5.55E-06	9.19E-06	ICPMS	5.55E-06	1.22E-05
Eu	ICPMS	1.01E-05	1.30E-05	ICPMS	1.01E-05	1.27E-05
Fe	^e GFAA	1.67E-02	1.35E-01	GFAA	1.67E-02	1.77E-01
Fluoride	IC	1.00E+00	1.49E+00	IC	1.00E+00	1.49E+00
Gd	ICPMS	7.22E-06	1.91E-05	ICPMS	7.22E-06	1.98E-05
Hg	AA	2.00E-07	<MDL	AA	2.00E-07	<MDL
K	ICPMS	2.58E+00	1.24E+01	ICPMS	2.58E+00	1.06E+01
La	ICPMS	7.77E-05	<MDL	ICPMS	7.77E-05	<MDL
Li	ICPMS	1.78E-04	6.30E-02	ICPMS	1.78E-04	6.01E-02
Mg	ICPMS	1.14E+00	1.50E+02	ICPMS	1.14E+00	1.46E+02
Mn	ICPMS	1.22E-04	1.92E-02	ICPMS	1.22E-04	2.05E-02

Mo	ICPMS	1.08E-04	3.26E-03	ICPMS	1.08E-04	3.36E-03
Na	ICPMS	4.26E+00	5.05E+02	ICPMS	4.26E+00	4.97E+02
Nd	ICPMS	5.33E-05	9.04E-05	ICPMS	5.33E-05	9.63E-05
Ni	ICPMS	7.22E-04	1.88E-02	ICPMS	7.22E-04	2.28E-02
Nitrate	IC	4.50E-01	4.95E+00	IC	4.50E-01	5.20E+00
Pb	ICPMS	1.89E-04	6.38E-04	ICPMS	1.89E-04	1.35E-03
Phosphate	IC	3.60E-01	<MDL	IC	3.60E-01	<MDL
Pr	ICPMS	5.44E-05	<MDL	ICPMS	5.44E-05	<MDL
Sb	ICPMS	1.55E-04	<MDL	ICPMS	1.55E-04	<MDL
Sc	GFAA	7.66E-05	3.88E-03	GFAA	7.66E-05	3.60E-03
Se	ICPMS	4.22E-03	<MDL	ICPMS	4.22E-03	<MDL
Sm	ICPMS	1.02E-04	<MDL	ICPMS	1.02E-04	<MDL
Sn	ICPMS	8.33E-03	<MDL	ICPMS	8.33E-03	<MDL
Sulfate	IC	3.50E-01	1.40E+03	IC	3.50E-01	1.37E+03
Sr	ICPMS	5.66E-02	6.14E+00	ICPMS	5.66E-02	6.15E+00
Th	ICPMS	6.22E-06	2.70E-05	ICPMS	6.22E-06	3.58E-05
Ti	ICPMS	2.66E-04	4.11E-01	ICPMS	2.66E-04	4.35E-01
Tl	ICPMS	3.22E-05	1.20E-04	ICPMS	3.22E-05	1.35E-04
U	ICPMS	3.33E-06	7.52E-03	ICPMS	3.33E-06	7.24E-03
V	ICPMS	1.44E-04	8.92E-03	ICPMS	1.44E-04	9.30E-03
Zn	ICPMS	1.44E-03	6.12E-03	ICPMS	1.44E-03	1.39E-02

^aMDL = Method Detection Limit; ICPMS values for 1998 and 1999 were calculated using the manufacturer's recommended method, values for 2000 were calculated using the EPA recommended method.

^bICPMS = Inductively-Coupled Mass Spectrometry

^cAA = Atomic Absorption Spectroscopy

^dIC = Ion Chromatography

^eGFAA = Graphite Furnace Atomic Adsorption Spectroscopy