

**Table 00-16. Selected Non-Radiological Constituents in Red Bluff Reservoir Sediment 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.

		Collection Date and Sampling Depth			
		May 22, 2000 (12.6 m depth)		May 22, 2000 (12.3 m depth)	
Analyte	Method	<sup>a</sup> MDL (mg kg <sup>-1</sup> )	Result (mg kg <sup>-1</sup> )	MDL (mg kg <sup>-1</sup> )	Result (mg kg <sup>-1</sup> )
Ag	<sup>b</sup> ICPMS	1.02E-02	8.59E-02	1.02E-02	8.36E-02
Al	ICPMS	8.45E+01	2.54E+04	8.45E+01	2.61E+04
As	<sup>c</sup> GFAA	7.70E-01	4.39E+00	7.70E-01	5.26E+00
Ba	ICPMS	5.30E-01	3.37E+02	5.30E-01	3.28E+02
Be	ICPMS	1.48E-02	7.14E-01	1.48E-02	7.05E-01
Ca	ICPMS	3.85E+03	1.76E+05	3.85E+03	1.60E+05
Cd	ICPMS	1.02E-02	4.24E-01	1.02E-02	4.01E-01
Chloride	<sup>d</sup> IC	2.20E-01	4.24E+03	2.20E-01	3.76E+03
Ce	ICPMS	3.15E-01	3.13E+01	3.15E-01	3.16E+01
Co	ICPMS	1.57E-02	7.00E+00	1.57E-02	7.30E+00
Cr	ICPMS	1.19E+00	2.53E+01	1.19E+00	2.51E+01
Cu	ICPMS	3.78E-01	1.88E+01	3.78E-01	1.53E+01
Dy	ICPMS	9.60E-03	2.31E+00	9.60E-03	2.44E+00
Er	ICPMS	1.07E-02	1.17E+00	1.07E-02	1.23E+00
Eu	ICPMS	1.29E-02	9.51E-01	1.29E-02	1.03E+00
Fe	ICPMS	7.03E+01	1.87E+04	7.03E+01	1.93E+04
Fluoride	IC	1.60E-01	<sup>e</sup> NA	1.60E-01	NA
Gd	ICPMS	1.07E-02	4.77E+00	1.07E-02	5.11E+00
Hg	ICPMS	5.30E-03	3.44E-02	5.30E-03	3.12E-02
K	ICPMS	8.90E+01	7.35E+03	8.90E+01	7.78E+03
La	ICPMS	2.23E-01	1.47E+01	2.23E-01	1.51E+01
Li	ICPMS	3.33E-01	2.53E+01	3.33E-01	2.59E+01
Mg	ICPMS	3.80E+01	1.23E+04	3.80E+01	1.23E+04
Mn	ICPMS	9.30E-01	5.22E+02	9.30E-01	5.33E+02
Mo	ICPMS	1.20E-02	3.10E+00	1.20E-02	2.12E+00
Na	ICPMS	5.75E+01	4.14E+03	5.75E+01	3.79E+03
Nd	ICPMS	9.50E-03	1.67E+01	9.50E-03	1.81E+01
Ni	ICPMS	7.90E-01	3.74E+01	7.90E-01	3.61E+01
Nitrate	IC	5.90E-01	6.03E+01	5.90E-01	1.93E+01

Sulfate	IC	1.40E+00	8.13E+03	1.40E+00	7.98E+03
Th	ICPMS	7.60E-03	5.58E+00	7.60E-03	6.08E+00
Ti	ICPMS	8.48E+00	5.26E+02	8.48E+00	5.42E+02
Tl	ICPMS	1.44E-02	3.27E-01	1.44E-02	3.80E-01
U	ICPMS	1.65E-01	3.72E+00	1.65E-01	3.06E+00
V	ICPMS	4.28E+00	3.72E+01	4.28E+00	4.04E+01
Zn	ICPMS	3.48E+00	6.21E+01	3.48E+00	5.94E+01
		<b>Collection Date and Sampling Depth</b>			
		<b>May 22, 2000 (12.6 m depth)</b>		<b>May 22, 2000 (12.4 m depth)</b>	
<b>Analyte</b>	<b>Method</b>	<b>MDL (mg kg<sup>-1</sup>)</b>	<b>Result (mg kg<sup>-1</sup>)</b>	<b>MDL (mg kg<sup>-1</sup>)</b>	<b>Result (mg kg<sup>-1</sup>)</b>
Ag	ICPMS	1.02E-02	8.08E-02	1.02E-02	8.75E-02
Al	ICPMS	8.45E+01	2.67E+04	8.45E+01	2.48E+04
As	GFAA	7.70E-01	4.97E+00	7.70E-01	4.48E+00
Ba	ICPMS	5.30E-01	3.45E+02	5.30E-01	3.43E+02
Be	ICPMS	1.48E-02	6.47E-01	1.48E-02	6.59E-01
Ca	ICPMS	3.85E+03	1.73E+05	3.85E+03	1.80E+05
Cd	ICPMS	1.02E-02	4.52E-01	1.02E-02	4.47E-01
Chloride	IC	2.20E-01	4.42E+03	2.20E-01	4.71E+03
Ce	ICPMS	3.15E-01	3.20E+01	3.15E-01	3.14E+01
Co	ICPMS	1.57E-02	7.15E+00	1.57E-02	7.11E+00
Cr	ICPMS	1.19E+00	2.38E+01	1.19E+00	2.20E+01
Cu	ICPMS	3.78E-01	1.61E+01	3.78E-01	1.55E+01
Dy	ICPMS	9.60E-03	2.53E+00	9.60E-03	2.59E+00
Er	ICPMS	1.07E-02	1.27E+00	1.07E-02	1.35E+00
Eu	ICPMS	1.29E-02	1.11E+00	1.29E-02	1.13E+00
Fe	ICPMS	7.03E+01	1.94E+04	7.03E+01	1.90E+04
Fluoride	IC	1.60E-01	NA	1.60E-01	NA
Gd	ICPMS	1.07E-02	5.14E+00	1.07E-02	5.33E+00
Hg	ICPMS	5.30E-03	3.54E-02	5.30E-03	3.15E-02
K	ICPMS	8.90E+01	7.95E+03	8.90E+01	7.32E+03
La	ICPMS	2.23E-01	1.52E+01	2.23E-01	1.48E+01
Li	ICPMS	3.33E-01	2.66E+01	3.33E-01	2.46E+01
Mg	ICPMS	3.80E+01	1.24E+04	3.80E+01	1.22E+04
Mn	ICPMS	9.30E-01	5.31E+02	9.30E-01	5.30E+02
Mo	ICPMS	1.20E-02	3.14E+00	1.20E-02	3.05E+00
Na	ICPMS	5.75E+01	4.20E+03	5.75E+01	4.36E+03
Nd	ICPMS	9.50E-03	1.85E+01	9.50E-03	1.85E+01
Ni	ICPMS	7.90E-01	3.80E+01	7.90E-01	3.86E+01

Sn	ICPMS	8.89E-01	1.36E+00	8.89E-01	1.53E+00
Sr	ICPMS	1.29E+00	7.10E+02	1.29E+00	7.19E+02
Sulfate	IC	1.40E+00	7.81E+03	1.40E+00	8.17E+03
Th	ICPMS	7.60E-03	6.44E+00	7.60E-03	6.37E+00
Ti	ICPMS	8.48E+00	5.50E+02	8.48E+00	4.81E+02
Tl	ICPMS	1.44E-02	4.08E-01	1.44E-02	3.79E-01
U	ICPMS	1.65E-01	3.92E+00	1.65E-01	3.82E+00
V	ICPMS	4.28E+00	3.72E+01	4.28E+00	3.36E+01
Zn	ICPMS	3.48E+00	1.08E+02	3.48E+00	6.17E+01

<sup>a</sup>MDL = Method Detection Limit

<sup>b</sup>ICPMS = Inductively-Coupled Mass Spectrometry

<sup>c</sup>GFAA= Graphite Furnace Atomic Absorption Spectroscopy

<sup>d</sup>IC = Ion Chromatography

<sup>e</sup>NA = Sample was not analyzed for target analyte