

Table RD-1e. Trace Element Concentrations in Aerosols determined by Atomic Absorption Spectrometry and Inductively Coupled Plasma Mass Spectrometry for Sn through Zn (July, 2000 - March, 2001)

See CEMRC 2000 Report, "Particulate concentrations and inorganics in near-surface air" for descriptions of locations and methods of data collection.

Date	Station	b>Type	aAnalyte					
			Sn	Sr	Th	Ti	Tl	U
07/11/2000	Cactus Flats	LTSP	NA ^d	3.75E+00	8.51E-02	3.14E+01	<MDL ^c	2.74E-
07/20/2000	Cactus Flats	LTSP	NA	4.78E+00	1.47E-01	5.45E+01	<MDL	4.30E-
07/30/2000	Cactus Flats	LTSP	NA	1.61E+00	6.55E-02	1.60E+01	<MDL	2.05E-
08/09/2000	Cactus Flats	LTSP	NA	9.38E-01	5.96E-02	2.29E+01	<MDL	2.52E-
08/19/2000	Cactus Flats	LTSP	NA	1.54E+00	6.78E-02	2.47E+01	3.46E-02	2.50E-
09/06/2000	Cactus Flats	LTSP	NA	1.98E+00	6.52E-02	1.81E+01	1.99E-01	1.92E-
09/16/2000	Cactus Flats	LTSP	NA	1.93E+00	6.26E-02	1.77E+01	<MDL	1.87E-
07/11/2000	Near Field	LTSP	NA	2.10E+00	5.96E-02	2.45E+01	<MDL	1.71E-
07/20/2000	Near Field	LTSP	NA	3.46E+00	1.20E-01	2.81E+01	8.50E-02	3.81E-
07/30/2000	Near Field	LTSP	NA	1.57E+00	5.23E-02	1.28E+01	<MDL	1.68E-
08/09/2000	Near Field	LTSP	NA	4.39E-01	3.97E-02	1.45E+01	<MDL	1.99E-
08/19/2000	Near Field	LTSP	NA	2.66E+00	9.01E-02	3.17E+01	1.13E-02	3.23E-
09/06/2000	Near Field	LTSP	NA	2.67E+00	7.01E-02	2.17E+01	<MDL	2.32E-
09/16/2000	Near Field	LTSP	NA	1.96E+00	5.62E-02	1.64E+01	<MDL	1.62E-
07/11/2000	On Site	LTSP	NA	9.94E-01	4.19E-02	1.50E+01	<MDL	1.49E-
07/20/2000	On Site	LTSP	NA	7.73E+00	1.48E-01	4.76E+01	2.19E-02	5.80E-
07/20/2000	On Site	LTSP	NA	2.36E+00	6.15E-02	1.63E+01	<MDL	2.36E-
07/30/2000	On Site	LTSP	NA	1.79E+00	4.12E-02	8.46E+00	<MDL	1.36E-
08/09/2000	On Site	LTSP	NA	4.82E+00	7.98E-02	2.84E+01	7.97E-03	3.18E-
08/19/2000	On Site	LTSP	NA	4.20E+00	1.08E-01	4.06E+01	<MDL	3.91E-
09/06/2000	On Site	LTSP	NA	4.23E+00	9.83E-02	3.26E+01	<MDL	3.41E-
09/16/2000	On Site	LTSP	NA	3.69E+00	8.33E-02	2.63E+01	<MDL	2.69E-
09/16/2000	On Site	LTSP	NA	2.67E+00	5.49E-02	1.68E+01	<MDL	1.88E-
10/4/2000	Cactus Flats	LTSP	NA	2.52E+00	3.76E-02	1.99E+01	5.00E-02	2.05E-
10/14/2000	Cactus Flats	LTSP	NA	7.49E-01	1.06E-02	6.47E+00	1.57E-02	6.64E-
10/14/2000	Cactus Flats	LTSP	NA	6.51E-01	9.24E-03	8.31E+00	1.08E-02	7.67E-
11/1/2000	Cactus Flats	LTSP	NA	8.12E-01	<MDL	4.89E+00	7.41E-02	6.31E-
11/11/2000	Cactus Flats	LTSP	NA	2.05E-01	<MDL	<MDL	8.59E-03	<MD
11/29/2000	Cactus Flats	LTSP	NA	1.40E+00	2.62E-02	8.26E+00	5.59E-02	8.82E-
11/29/2000	Cactus Flats	LTSP	NA	1.25E+00	2.37E-02	5.09E+00	1.26E-02	6.50E-
12/9/2000	Cactus Flats	LTSP	NA	1.27E+00	2.71E-02	9.17E+00	<MDL	9.77E-

Date	Station	bType	aAnalyte					
			Sn	Sr	Th	Ti	Tl	U
10/4/2000	Near Field	LTSP	NA	2.87E+00	3.94E-02	2.24E+01	1.11E-02	2.01E-
10/14/2000	Near Field	LTSP	NA	6.47E-01	7.46E-03	5.91E+00	7.05E-03	8.27E-
11/1/2000	Near Field	LTSP	NA	5.59E-01	<MDL	<MDL	6.83E-03	<MD
11/11/2000	Near Field	LTSP	NA	2.53E-01	<MDL	<MDL	4.70E-03	<MD
11/11/2000	Near Field	LTSP	NA	2.68E-01	<MDL	<MDL	3.41E-03	<MD
11/29/2000	Near Field	LTSP	NA	1.76E+00	3.26E-02	9.04E+00	7.20E-02	9.78E-
12/9/2000	Near Field	LTSP	NA	1.29E+00	4.04E-02	9.09E+00	<MDL	1.26E-
10/4/2000	On Site	LTSP	NA	6.07E+00	6.80E-02	3.45E+01	5.23E-02	3.21E-
10/14/2000	On Site	LTSP	NA	2.17E+00	2.45E-02	1.39E+01	6.56E-03	1.09E-
11/1/2000	On Site	LTSP	NA	1.05E+00	<MDL	5.35E+00	2.50E-02	6.67E-
11/11/2000	On Site	LTSP	NA	7.17E-01	<MDL	5.82E+00	9.93E-03	5.70E-
11/29/2000	On Site	LTSP	NA	1.32E+00	2.23E-02	6.08E+00	<MDL	7.52E-
12/9/2000	On Site	LTSP	NA	1.92E+00	4.90E-02	1.41E+01	8.95E-03	1.53E-
1/6/2001	Cactus Flats	LTSP	<MDL	1.18E+00	5.10E-02	8.24E+00	4.35E-03	1.59E-
1/24/2001	Cactus Flats	LTSP	<MDL	3.31E-01	1.94E-02	<MDL	<MDL	8.20E-
2/3/2001	Cactus Flats	LTSP	<MDL	7.60E-01	2.66E-02	<MDL	<MDL	8.34E-
2/21/2001	Cactus Flats	LTSP	<MDL	2.43E+00	6.35E-02	1.55E+01	<MDL	1.65E-
3/3/2001	Cactus Flats	LTSP	<MDL	7.52E-01	8.66E-03	<MDL	<MDL	<MD
3/21/2001	Cactus Flats	LTSP	<MDL	6.38E-01	1.35E-02	5.83E+00	<MDL	<MD
3/21/2001	Cactus Flats	LTSP	<MDL	9.94E-01	2.13E-02	8.68E+00	<MDL	7.76E-
3/31/2001	Cactus Flats	LTSP	<MDL	1.31E+00	3.50E-02	7.69E+00	<MDL	1.06E-
4/18/2001	Cactus Flats	LTSP	<MDL	3.51E+00	1.44E-01	3.38E+01	<MDL	3.81E-
4/28/2001	Cactus Flats	LTSP	<MDL	3.10E+00	9.80E-02	2.07E+01	<MDL	3.18E-
1/6/2001	Near Field	LTSP	<MDL	6.72E-01	3.85E-02	6.74E+00	1.87E-02	1.15E-
1/24/2001	Near Field	LTSP	<MDL	3.99E-01	1.89E-02	<MDL	<MDL	9.09E-
2/5/2001	Near Field	LTSP	<MDL	1.42E+00	4.30E-02	9.46E+00	<MDL	1.15E-
2/21/2001	Near Field	LTSP	<MDL	9.77E-01	2.86E-02	1.30E+01	<MDL	9.82E-
3/3/2001	Near Field	LTSP	<MDL	4.16E-01	8.24E-03	3.64E+00	<MDL	<MD
3/21/2001	Near Field	LTSP	<MDL	8.24E-01	9.84E-03	6.35E+00	<MDL	<MD
3/31/2001	Near Field	LTSP	<MDL	1.23E+00	2.21E-02	7.05E+00	<MDL	6.83E-
4/18/2001	Near Field	LTSP	<MDL	6.36E+00	2.69E-01	6.36E+01	<MDL	6.66E-
1/6/2001	On Site	LTSP	<MDL	1.07E+00	4.57E-02	7.87E+00	<MDL	1.36E-
1/24/2001	On Site	LTSP	<MDL	1.78E+00	2.89E-02	<MDL	<MDL	1.31E-
2/5/2001	On Site	LTSP	<MDL	6.67E+00	5.98E-02	1.59E+01	<MDL	1.85E-
2/21/2001	On Site	LTSP	<MDL	6.71E+00	6.13E-02	1.62E+01	<MDL	1.84E-
2/21/2001	On Site	LTSP	<MDL	1.88E+00	4.97E-02	7.27E+00	<MDL	1.47E-
3/3/2001	On Site	LTSP	<MDL	5.60E-01	5.96E-03	4.58E+00	<MDL	<MD
3/21/2001	On Site	LTSP	<MDL	5.63E-01	9.71E-03	<MDL	<MDL	<MD
3/31/2001	On Site	LTSP	<MDL	2.43E+00	3.13E-02	1.17E+01	<MDL	1.16E-

Date	Station	Type	Analyte					
			Sn	Sr	Th	Ti	Tl	U
4/18/2001	On Site	LTSP	<MDL	7.05E+00	2.71E-01	6.93E+01	<MDL	6.44E-
4/28/2001	On Site	LTSP	<MDL	3.55E+00	1.10E-01	2.96E+01	<MDL	3.01E-

^a All concentrations are expressed in nanograms (10⁻⁹ grams) per cubic meter

^b LTSP = low volume sampler, total suspended particulate; LPM10 - low volume sampler, particulate matter <10um aerodynamic diameter; LPM2.5 = low aerodynamic diameter

^c MDL = minimum detectable limit

^d NA = not available