



2009 North American Proficiency Testing Program
2nd Quarter Report - August 20, 2009

Laboratory ID

Environmental		Soil 2009-106			Soil 2009-107			Soil 2009-108			Soil 2009-109			Soil 2009-110			
Soil Analyses	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Ag	mg/kg	2	0.700	0.300		0.134	0.134		0.105	0.105		0.500	0.500		0.400	0.268	
Al	mg/kg	12	5409	669		22306	5194		20700	1900		10597	817		23352	3542	
As	mg/kg	10	1.58	0.693		12.2	1.45		3.54	0.726		20.6	1.21		7.21	0.984	
Ba	mg/kg	8	44.4	6.27		170	25.4		294	23.2		102	4.5		140	18.5	
Be	mg/kg	5	0.314	0.164		1.80	0.070		0.700	0.027		0.400	0.100		1.20	0.100	
Bi	mg/kg	0															
B	mg/kg	7	4.20	2.20		4.55	2.35		3.89	1.91		2.96	1.59		17.5	4.24	
Ca	mg/kg	11	1009	64.8		6620	402		4501	183		3985	312		43675	2093	
Cd	mg/kg	11	0.290	0.148		0.594	0.185		0.505	0.165		0.777	0.293		0.801	0.156	
Co	mg/kg	12	3.02	0.250		13.5	2.21		10.6	1.40		10.9	1.92		8.09	0.810	
Cr	mg/kg	14	8.24	0.942		32.0	5.69		17.2	1.69		10.3	1.72		26.7	4.76	
Cu	mg/kg	14	8.55	1.38		37.1	3.09		13.7	1.83		14.6	2.07		18.1	2.50	
Fe	mg/kg	12	6365	795		25604	3796		20098	1570		24851	3891		20584	3016	
K	mg/kg	11	542	35.2		1620	415		2785	176		2871	190		6957	1340	
Li	mg/kg	4	5.86	1.08		15.1	6.91		13.2	3.40		9.83	2.34		25.2	7.71	
Mg	mg/kg	11	998	55.9		2573	423		3514	140		4845	193		11548	1116	
Mn	mg/kg	12	394	20.0		1861	102		941	44.6		387	19.4		540	27.4	
Mo	mg/kg	4	2.09	1.71		0.986	0.50		1.50	1.13		1.20	0.875		5.29	4.34	
Na	mg/kg	8	25.1	8.75		67.2	23.6		170	60.2		293	120		182	51.2	
Ni	mg/kg	13	5.20	0.878		16.6	3.43		15.0	1.67		9.23	1.030		22.0	3.07	
P	mg/kg	12	498	30.9		2199	292		849	51.0		946	37.8		1141	69.3	
Pb	mg/kg	13	8.40	1.004		45.6	3.37		9.92	3.46		176	8.00		16.4	4.15	
S	mg/kg	10	127	13.5		320	44.2		211	19.5		131	6.90		258	16.3	
Sb	mg/kg	3	0.500	0.380		0.500	0.090		0.500	0.200		0.500	0.220		0.500	0.100	
Se	mg/kg	6	0.395	0.272		1.35	0.936		0.308	0.238		0.301	0.261		0.362	0.242	
Sn	mg/kg	2	0.300	0.200		0.450	0.050		0.300	0.200		0.250	0.250		0.250	0.250	
Sr	mg/kg	8	6.09	1.060		18.9	2.36		48.8	4.21		25.3	3.79		74.4	9.06	
V	mg/kg	8	11.5	2.38		43.8	8.77		39.1	6.27		54.2	12.8		27.6	12.4	
Zn	mg/kg	14	31.6	2.96		148	14.3		65.4	4.52		58.3	2.45		78.2	5.66	
Hg (US-EPA 7470)	mg/kg	5	0.019	0.004		0.063	0.002		0.022	0.001		0.020	0.002		0.027	0.009	

1 - Values flagged exceed Warning Limits * * * 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * 4 x MAD. " < " and " ND " values not recorded.
2 - Limits not compared to lab data for methods with < 7 labs reporting.