



2016 North American Proficiency Testing Program  
2nd Quarter Report - July 11, 2016

Laboratory ID  
general

Environmental Soil Analyses	Units	n	Soil 2016-106			Soil 2016-107			Soil 2016-108			Soil 2016-109			Soil 2016-110		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Ag	mg/kg	1	0.300	0.000													
Al	mg/kg	7	13400	1120		15800	1890		6680	384		6080	567		15900	2940	
As	mg/kg	7	18.5	3.14		7.50	0.748		7.62	0.536		4.90	2.40		7.58	1.58	
Ba	mg/kg	4	193	5.09		196	19.8		67.4	10.0		20.6	3.98		219	12.2	
Be	mg/kg	3	0.900	0.060		0.900	0.300		0.600	0.400		0.710	0.080		0.720	0.020	
Bi	mg/kg																
B	mg/kg	5	21.0	10.4		5.79	2.57		5.92	2.49		5.19	2.10		5.40	2.40	
Ca	mg/kg	7	51600	3690		4580	183		1360	74.0		2040	254		4960	147	
Cd	mg/kg	9	0.890	0.170		0.505	0.119		0.100	0.023		0.260	0.053		0.555	0.121	
Co	mg/kg	6	5.41	0.510		8.73	1.15		4.31	0.550		5.51	0.615		9.38	0.710	
Cr	mg/kg	9	14.5	1.80		24.3	2.41		23.7	3.10		14.9	0.835		22.2	4.58	
Cu	mg/kg	9	26.1	4.20		20.1	1.87		12.2	0.770		11.1	1.55		16.1	1.00	
Fe	mg/kg	7	14800	1310		19100	1380		11500	350		15400	1930		19600	1580	
K	mg/kg	7	4240	322		3710	592		631	55.0		715	309		3230	758	
Li	mg/kg	3	44.0	33.0		11.0	7.60		5.40	3.40		7.60	0.600		8.20	1.20	
Mg	mg/kg	7	13000	1870		3880	999		511	45.1		2100	287		3020	254	
Mn	mg/kg	7	545	26.1		433	26.0		526	35.7		248	18.6		1040	126	
Mo	mg/kg	5	1.80	0.210		0.707	0.445		0.948	0.055		0.219	0.150		0.608	0.293	
Na	mg/kg	5	799	82.2		125	35.3		43.3	23.7		45.5	16.6		75.1	35.9	
Ni	mg/kg	8	7.64	0.675		16.6	0.980		5.21	0.785		13.8	1.25		19.3	1.19	
P	mg/kg	7	810	73.0		813	81.0		310	26.0		618	33.0		992	48.0	
Pb	mg/kg	8	31.9	3.69		14.8	1.72		17.6	1.94		8.51	0.755		13.9	2.10	
S	mg/kg	4	1150	436		398	33.8		169	13.0		228	9.82		349	24.0	
Sb	mg/kg	2	5.12	3.920		3.93	3.23		2.08	1.58		4.48	0.000		2.56	2.06	
Se	mg/kg	3	0.600	0.178		0.400	0.010		0.300	0.048		0.813	0.628		0.600	0.081	
Sn	mg/kg																
Sr	mg/kg	4	184	38.0		37.0	4.75		5.18	1.31		8.22	1.79		23.0	2.24	
V	mg/kg	4	35.8	0.950		37.8	10.5		29.0	5.44		17.1	1.35		39.4	11.7	
Zn	mg/kg	9	99.0	12.5		82.3	8.50		21.0	2.80		61.2	3.78		69.2	7.99	
Hg (US-EPA 7470 or 7471)	mg/kg	2	0.031	0.029		0.002	0.000		0.002	0.000		0.002	0.000		0.002	0.000	

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