



2016 North American Proficiency Testing Program
3rd Quarter Report - October 11, 2016

Laboratory ID
general

Environmental Soil Analyses	Units	n	Soil 2016-111			Soil 2016-112			Soil 2016-113			Soil 2016-114			Soil 2016-115		
			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	1	1.60	0.000		0.100	0.000										
Al	mg/kg	7	17000	4970		21400	800		13800	938		17200	3180		31100	1880	
As	mg/kg	6	12.6	1.22		7.78	0.720		6.19	0.860		3.86	0.595		3.60	0.505	
Ba	mg/kg	4	152	14.5		64.1	1.05		214	17.2		162	11.2		275	16.2	
Be	mg/kg	1	1.00	0.000		0.700	0.000		0.700	0.000		0.900	0.000		0.800	0.000	
Bi	mg/kg																
B	mg/kg	4	12.3	2.70		8.82	5.48		7.99	4.10		8.35	0.90		8.75	4.84	
Ca	mg/kg	5	91500	3240		2120	367		4740	127		7920	323		2760	399	
Cd	mg/kg	7	8.50	0.720		0.330	0.140		0.480	0.110		0.530	0.110		0.590	0.090	
Co	mg/kg	6	6.01	0.595		8.75	0.625		9.41	0.360		8.79	0.435		7.62	1.275	
Cr	mg/kg	8	141	18.7		32.6	0.585		21.1	3.69		20.5	2.80		9.89	1.20	
Cu	mg/kg	8	51.0	4.40		9.69	2.31		15.8	2.28		18.9	3.40		18.0	2.38	
Fe	mg/kg	5	18200	1290		19900	381		17700	1890		16100	1910		16300	1740	
K	mg/kg	5	4020	805		1670	436		2850	348		4320	636		1650	185	
Li	mg/kg	2	86.6	81.5		51.8	26.3		120	112		92.1	77.1		149	135	
Mg	mg/kg	5	3660	441		3870	86.0		2930	254		5120	372		2680	115	
Mn	mg/kg	5	185	4.80		279	6.81		982	84.0		610	34.3		466	7.80	
Mo	mg/kg	6	27.2	4.85		0.680	0.180		0.685	0.220		0.128	0.128		0.830	0.280	
Na	mg/kg	4	240	40.8		89.6	41.2		65.7	39.7		108	46.7		490	193	
Ni	mg/kg	8	118	7.44		20.3	0.355		20.0	1.55		13.7	0.710		8.95	0.895	
P	mg/kg	7	11100	634		848	59.7		1010	31.0		820	39.0		1570	56.9	
Pb	mg/kg	6	6.65	0.915		12.3	1.05		14.4	1.90		17.3	1.10		12.3	1.95	
S	mg/kg	4	370	26.6		386	7.00		331	21.4		303	26.8		710	12.2	
Sb	mg/kg	2	9.05	3.65		1.95	1.75		3.10	2.60		2.50	2.10		2.05	1.85	
Se	mg/kg	5	4.40	1.01		0.500	0.310		0.500	0.500		0.155	0.100		0.260	0.200	
Sn	mg/kg																
Sr	mg/kg	4	315	29.1		8.19	1.10		22.5	2.75		32.0	4.00		31.4	2.75	
V	mg/kg	4	259	64.0		37.8	5.75		40.8	10.7		29.7	10.9		32.0	7.40	
Zn	mg/kg	8	193	13.0		60.8	4.15		73.5	8.20		57.9	5.71		74.7	3.57	
Hg (US-EPA 7470 or 7471)	mg/kg	3	0.060	0.000		0.031	0.011		0.023	0.003		0.114	0.096		0.025	0.005	

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.