



2018 North American Proficiency Testing Program
Quarter 3 Env Soil Report - Oct 9, 2018

Laboratory ID
General

Environmental Soil Analyses	Units	n	Soil 2018-111			Soil 2018-112			Soil 2018-113			Soil 2018-114			Soil 2018-115		
			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																
Al	mg/kg	5	9600	966		14600	2590		11900	630		11000	149		20400	3050	
As	mg/kg	5	2.30	0.200		4.26	0.530		4.78	0.580		7.60	1.54		7.18	2.12	
Ba	mg/kg	2	96.1	2.30		143	5.32		46.3	0.695		159	5.34		207	11.0	
Be	mg/kg	1	0.210	0.000		0.550	0.000		0.390	0.000		0.440	0.000		0.920	0.000	
Bi	mg/kg																
B	mg/kg	4	6.04	2.74		5.79	2.38		3.77	1.34		3.94	1.20		13.1	7.01	
Ca	mg/kg	4	4770	302		4000	64.5		2120	87.8		2364	157		30000	1640	
Cd	mg/kg	5	0.350	0.010		0.330	0.120		0.180	0.050		0.368	0.042		0.490	0.110	
Co	mg/kg	4	8.90	0.860		4.03	0.390		2.71	0.197		8.96	1.23		8.15	0.940	
Cr	mg/kg	6	10.0	2.26		16.5	3.41		13.3	2.30		15.1	2.70		18.4	4.95	
Cu	mg/kg	6	11.4	1.36		12.8	1.32		55.9	1.78		8.12	1.39		17.2	2.23	
Fe	mg/kg	4	18800	1040		14400	461		9800	256		13500	323		17500	790	
K	mg/kg	5	1920	261		1880	508		953	163		1060	261		4330	761	
Li	mg/kg	1	7.44	0.000		8.53	0.000		10.1	0.000		7.19	0.000		30.6	0.000	
Mg	mg/kg	4	3900	125		2160	281		1070	65.4		1800	179		7790	798	
Mn	mg/kg	4	383	14.3		315	6.05		107	4.60		1270	148		466	29.5	
Mo	mg/kg	2	0.355	0.255		0.360	0.260		0.755	0.565		0.520	0.370		0.350	0.250	
Na	mg/kg	5	253	90.2		55.0	27.8		88.4	2.09		48.1	30.8		433	138	
Ni	mg/kg	6	8.24	1.09		9.8	1.20		5.78	0.988		10.8	1.40		14.3	1.90	
P	mg/kg	5	781	57.7		418	13.0		1520	50.7		344	20.0		664	72.0	
Pb	mg/kg	5	4.90	0.400		13.9	2.10		11.9	1.73		19.1	2.58		16.4	2.70	
S	mg/kg	4	140	16.6		231	14.2		261	2.90		159	14.0		365	17.3	
Sb	mg/kg																
Se	mg/kg	1	0.100	0.000		0.400	0.000		0.050	0.000		0.595	0.315		0.100	0.000	
Sn	mg/kg																
Sr	mg/kg	2	23.4	0.870		14.8	2.83		8.36	1.54		10.5	1.82		135	20.7	
V	mg/kg	1	22.3	0.000		13.8	0.000		13.8	0.000		19.5	0.000		8.60	0.000	
Zn	mg/kg	6	49.1	3.62		47.2	4.29		60.8	3.75		37.1	2.39		59.1	4.00	
Hg (US-EPA 7470 or	mg/kg	2	0.005	0.000		0.014	0.001		0.056	0.025		0.015	0.003		0.012	0.002	

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