

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Soil Geochemical Landscapes Project  
Summary Statistics - Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation	Ag ppb 20 milled 4-acid ICP-MS&ES	Al % 0.02 milled 4-acid ICP-MS&ES	As ppm 0.2 milled 4-acid ICP-MS&ES	Au ppm 0.1 milled 4-acid ICP-MS&ES	Ba ppm 1 milled 4-acid ICP-MS&ES	Be ppm 1 milled 4-acid ICP-MS&ES	Bi ppm 0.04 milled 4-acid ICP-MS&ES	Ca % 0.02 milled 4-acid ICP-MS&ES	Cd ppm 0.02 milled 4-acid ICP-MS&ES	Ce ppm 0.02 milled 4-acid ICP-MS&ES	Co ppm 0.2 milled 4-acid ICP-MS&ES	Cr ppm 1 milled 4-acid ICP-MS&ES	Cs ppm 0.1 milled 4-acid ICP-MS&ES	Cu ppm 0.02 milled 4-acid ICP-MS&ES	Dy ppm 0.1 milled 4-acid ICP-MS&ES	Er ppm 0.1 milled 4-acid ICP-MS&ES	Eu ppm 0.1 milled 4-acid ICP-MS&ES	Fe % 0.02 milled 4-acid ICP-MS&ES	Ga ppm 0.02 milled 4-acid ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	176	0	6	1	0	1	0	0	0	0	0	0	0	0	0	0
Arithmetic Mean	191	6.54	11.4	<0.1	327	2	0.21	0.31	0.13	53.10	13.9	62	4.2	21.92	2.6	1.4	0.8	3.38	5.0
Median	187	6.47	8.6	<0.1	319	2	0.17	0.18	0.12	53.43	13.8	50	3.8	18.92	2.5	1.3	0.8	3.38	4.8
Variance	6435	1.54	304.1	0.0	7648	1	0.02	0.20	0.00	162.46	37.8	2851	3.5	524.78	0.5	0.2	0.0	1.25	2.4
Standard Deviation	80	1.24	17.4	0.0	87	1	0.15	0.44	0.07	12.75	6.2	53	1.9	22.91	0.7	0.4	0.2	1.12	1.6
Skewness	1	0.16	11.2	-	1	1	4.74	5.46	1.93	0.52	1.2	6	1.9	9.22	0.9	0.6	1.1	0.44	1.2
Kurtosis	4	0.31	138.5	-	1	1	28.79	41.50	6.62	3.42	3.7	61	6.9	105.23	1.5	1.2	3.4	0.88	3.9
Percentiles																			
Minimum Value	54	2.63	0.6	<0.1	120	<1	<0.04	0.02	<0.02	15.88	1.0	4	0.7	3.37	0.8	0.3	0.2	0.62	1.7
5th Percentile	83	4.65	3.1	<0.1	204	1	0.10	0.05	0.05	33.78	5.3	20	1.9	7.35	1.7	0.8	0.5	1.71	3.0
10th Percentile	106	5.03	5.1	<0.1	224	1	0.11	0.06	0.06	37.36	7.7	25	2.3	9.35	1.8	0.9	0.6	2.04	3.3
15th Percentile	115	5.23	5.9	<0.1	249	1	0.12	0.08	0.07	40.87	8.2	30	2.7	10.96	2.0	1.0	0.6	2.23	3.6
25th Percentile	132	5.68	6.9	<0.1	267	1	0.13	0.09	0.09	45.48	9.6	36	3.1	13.23	2.1	1.1	0.7	2.62	4.1
35th Percentile	153	6.12	7.5	<0.1	289	1	0.15	0.11	0.10	48.79	11.3	41	3.4	15.59	2.3	1.2	0.7	2.98	4.4
50th Percentile	187	6.47	8.6	<0.1	319	2	0.17	0.18	0.12	53.43	13.8	50	3.8	18.92	2.5	1.3	0.8	3.38	4.8
65th Percentile	209	6.94	10.9	<0.1	346	2	0.20	0.27	0.14	58.16	15.2	61	4.5	21.40	2.8	1.5	0.8	3.76	5.3
70th Percentile	215	7.10	11.2	<0.1	359	2	0.21	0.32	0.15	59.55	15.8	69	4.6	22.93	2.9	1.6	0.9	3.87	5.6
75th Percentile	226	7.28	12.3	<0.1	375	2	0.22	0.36	0.16	60.92	16.5	77	4.9	24.63	3.0	1.6	0.9	3.96	5.9
80th Percentile	251	7.58	13.6	<0.1	393	2	0.24	0.43	0.17	63.11	17.0	84	5.3	27.71	3.1	1.7	0.9	4.19	6.2
90th Percentile	289	8.19	16.4	<0.1	442	3	0.30	0.66	0.20	65.62	21.5	101	6.4	33.44	3.6	1.9	1.0	4.70	7.1
95th Percentile	329	8.54	24.2	<0.1	489	3	0.35	0.94	0.24	70.35	24.0	127	7.3	37.93	4.0	2.1	1.2	5.19	7.4
98th Percentile	362	9.40	26.0	<0.1	535	4	0.73	1.30	0.34	77.50	29.2	162	9.1	57.40	4.3	2.4	1.4	5.92	8.5
99th Percentile	454	9.58	34.9	<0.1	548	4	0.92	1.91	0.36	82.20	32.6	188	10.4	66.83	4.6	2.6	1.4	6.50	9.9
Maximum Value	566	10.07	228.3	<0.1	632	5	1.40	4.31	0.51	117.72	44.9	604	14.3	288.15	5.5	2.9	1.8	7.38	13.0

C-horizon  
<2 mm fraction  
4-acid dissolution

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Summary Statistics - Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation	Gd ppm 0.1 milled 4-acid ICP-MS&ES	Hf ppm 0.02 milled 4-acid ICP-MS&ES	Ho ppm 0.1 milled 4-acid ICP-MS&ES	K % 0.02 milled 4-acid ICP-MS&ES	La ppm 0.1 milled 4-acid ICP-MS&ES	Li ppm 0.1 milled 4-acid ICP-MS&ES	Lu ppm 0.1 milled 4-acid ICP-MS&ES	Mg % 0.02 milled 4-acid ICP-MS&ES	Mn ppm 2 milled 4-acid ICP-MS&ES	Mo ppm 0.05 milled 4-acid ICP-MS&ES	Na % 0.002 milled 4-acid ICP-MS&ES	Nb ppm 0.04 milled 4-acid ICP-MS&ES	Nd ppm 0.1 milled 4-acid ICP-MS&ES	Ni ppm 0.1 milled 4-acid ICP-MS&ES	P % 0.001 milled 4-acid ICP-MS&ES	Pb ppm 0.02 milled 4-acid ICP-MS&ES	Pr ppm 0.1 milled 4-acid ICP-MS&ES	Rb ppm 0.1 milled 4-acid ICP-MS&ES	S % 0.04 milled 4-acid ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	176
Arithmetic Mean	3.2	3.09	0.5	1.91	17.8	46.0	0.2	0.86	636	0.63	1.085	10.73	24.0	34.5	0.043	17.42	5.9	81.8	<0.04
Median	3.1	3.12	0.5	1.81	17.0	43.0	0.2	0.76	545	0.43	1.065	10.60	23.9	26.2	0.039	15.55	5.9	79.7	<0.04
Variance	0.7	0.58	0.0	0.26	34.5	538.3	0.0	0.27	159925	0.78	0.182	16.25	34.6	660.7	0.000	82.23	2.1	545.0	-
Standard Deviation	0.8	0.76	0.1	0.51	5.9	23.2	0.1	0.52	400	0.88	0.426	4.03	5.9	25.7	0.022	9.07	1.4	23.3	-
Skewness	0.8	0.21	0.7	0.44	0.5	4.8	0.0	2.83	3	6.90	0.529	5.64	0.2	2.8	1.498	3.87	0.0	0.6	-
Kurtosis	1.9	2.53	1.5	0.16	0.9	42.9	0.9	13.47	14	56.34	0.371	55.07	0.4	13.9	3.159	24.39	0.3	2.4	-
Percentiles																			
Minimum Value	0.9	0.88	0.1	0.56	3.7	14.9	<0.1	0.07	156	0.10	0.162	3.90	7.8	1.9	0.010	4.22	1.9	7.0	<0.04
5th Percentile	2.1	1.62	0.3	1.22	8.3	19.3	0.1	0.33	277	0.21	0.446	6.66	15.3	9.8	0.017	8.88	3.7	51.3	<0.04
10th Percentile	2.4	2.19	0.3	1.34	11.0	24.3	0.2	0.43	314	0.23	0.558	7.37	16.5	13.2	0.020	10.47	4.3	57.7	<0.04
15th Percentile	2.5	2.46	0.4	1.44	12.1	27.6	0.2	0.46	337	0.26	0.652	8.05	18.1	16.6	0.022	10.79	4.5	61.2	<0.04
25th Percentile	2.7	2.69	0.4	1.56	13.9	32.8	0.2	0.55	392	0.31	0.809	8.73	20.0	19.6	0.028	12.18	5.0	67.2	<0.04
35th Percentile	2.8	2.91	0.4	1.67	15.2	38.0	0.2	0.62	457	0.35	0.906	9.38	21.6	22.5	0.033	13.60	5.4	71.6	<0.04
50th Percentile	3.1	3.12	0.5	1.81	17.0	43.0	0.2	0.76	545	0.43	1.065	10.60	23.9	26.2	0.039	15.55	5.9	79.7	<0.04
65th Percentile	3.4	3.36	0.5	2.05	20.1	50.3	0.3	0.91	661	0.55	1.197	11.50	25.9	32.6	0.047	18.00	6.4	90.2	<0.04
70th Percentile	3.5	3.41	0.5	2.12	21.0	52.3	0.3	0.97	723	0.60	1.245	11.69	26.6	38.3	0.050	18.72	6.7	92.7	<0.04
75th Percentile	3.7	3.48	0.6	2.25	21.7	54.6	0.3	1.02	778	0.66	1.298	12.00	28.1	44.1	0.052	19.61	6.9	95.6	<0.04
80th Percentile	3.9	3.60	0.6	2.34	22.8	57.4	0.3	1.11	812	0.73	1.405	12.45	29.3	49.7	0.057	21.19	7.2	98.7	<0.04
90th Percentile	4.4	3.88	0.7	2.61	24.8	67.5	0.3	1.46	993	1.09	1.654	14.05	31.3	68.9	0.067	25.70	7.7	107.9	<0.04
95th Percentile	4.7	4.26	0.7	2.83	27.1	75.4	0.3	1.59	1180	1.52	1.837	15.80	33.0	76.5	0.083	29.77	8.0	119.7	<0.04
98th Percentile	5.1	4.61	0.8	3.04	30.2	87.8	0.3	2.54	1936	2.13	2.123	16.70	34.8	94.4	0.116	41.09	8.6	135.3	<0.04
99th Percentile	5.2	4.96	0.9	3.17	31.3	92.1	0.4	2.73	2409	3.46	2.225	17.07	39.8	114.9	0.119	52.19	9.7	145.7	<0.04
Maximum Value	7.1	6.58	1.1	3.44	42.1	262.9	0.5	4.35	3166	8.71	2.457	50.76	42.3	212.9	0.129	89.31	10.3	174.6	<0.04

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4-acid dissolution

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Variable	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit	0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
Number of Samples	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176
Values < Det. Lim.	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Arithmetic Mean	0.68	9.0	4.1	2.0	81	0.6	0.4	7.9	0.377	0.2	2.1	33	1.0	12.7	1.6	72.2	105.8
Median	0.57	8.9	4.0	1.8	70	0.6	0.4	7.7	0.370	0.2	1.9	30	0.9	12.1	1.6	66.0	107.5
Variance	0.49	11.8	0.9	0.9	2027	0.1	0.0	4.8	0.012	0.0	0.6	255	0.2	12.6	0.2	1374.9	747.3
Standard Deviation	0.70	3.4	1.0	0.9	45	0.2	0.1	2.2	0.109	0.1	0.8	16	0.4	3.5	0.4	37.1	27.3
Skewness	6.98	1.6	0.5	3.0	3	3.7	0.8	1.3	0.262	0.2	3.4	3	2.0	0.6	0.4	3.2	0.1
Kurtosis	65.20	8.2	0.5	11.8	18	22.0	0.6	5.5	0.875	1.1	22.4	12	6.4	1.0	1.7	15.5	1.8
Percentiles																	
Minimum Value	0.04	1.6	1.5	0.7	28	0.2	0.2	2.0	0.075	<0.1	0.5	6	0.3	4.1	0.4	18.1	27.8
5th Percentile	0.17	4.6	2.7	1.2	39	0.4	0.3	5.3	0.205	0.1	1.2	16	0.5	7.7	0.9	33.9	52.8
10th Percentile	0.30	5.2	2.9	1.3	43	0.4	0.3	5.6	0.245	0.2	1.4	19	0.6	8.8	1.1	40.2	71.5
15th Percentile	0.34	5.5	3.0	1.4	46	0.4	0.3	6.0	0.278	0.2	1.5	21	0.7	9.4	1.2	44.0	81.6
25th Percentile	0.41	6.8	3.4	1.5	53	0.5	0.4	6.5	0.314	0.2	1.6	23	0.8	10.0	1.4	51.9	89.7
35th Percentile	0.48	7.8	3.7	1.6	60	0.5	0.4	7.1	0.339	0.2	1.7	26	0.8	11.3	1.5	57.9	98.9
50th Percentile	0.57	8.9	4.0	1.8	70	0.6	0.4	7.7	0.370	0.2	1.9	30	0.9	12.1	1.6	66.0	107.5
65th Percentile	0.65	9.7	4.3	2.0	83	0.6	0.5	8.4	0.415	0.2	2.1	34	1.0	13.8	1.8	76.3	116.3
70th Percentile	0.68	10.2	4.5	2.1	89	0.7	0.5	8.6	0.432	0.3	2.2	36	1.1	14.3	1.8	78.6	118.1
75th Percentile	0.74	10.6	4.6	2.2	97	0.7	0.5	8.8	0.445	0.3	2.3	38	1.1	14.8	1.9	83.2	120.7
80th Percentile	0.80	11.2	4.9	2.3	104	0.7	0.5	9.1	0.455	0.3	2.4	40	1.2	15.5	1.9	87.3	124.7
90th Percentile	0.98	13.1	5.4	2.8	133	0.8	0.6	9.9	0.496	0.3	2.9	50	1.5	17.3	2.1	106.0	133.6
95th Percentile	1.33	14.2	5.7	3.5	160	1.0	0.7	11.3	0.556	0.3	3.3	57	2.0	18.4	2.3	113.7	146.2
98th Percentile	2.50	15.8	5.9	5.1	181	1.2	0.7	13.2	0.646	0.4	3.8	75	2.3	21.0	2.5	180.8	163.1
99th Percentile	2.93	16.7	6.5	6.4	219	1.5	0.8	15.8	0.656	0.4	4.4	98	2.5	22.2	2.6	232.2	168.4
Maximum Value	7.83	30.8	7.6	7.4	419	2.4	0.8	19.3	0.738	0.5	8.1	137	3.5	26.6	3.5	312.8	222.2

C-horizon  
<2 mm fraction  
4-acid dissolution

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Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 milled 4-acid ICP-MS&ES	Al % 0.02 milled 4-acid ICP-MS&ES	As ppm 0.2 milled 4-acid ICP-MS&ES	Au ppm 0.1 milled 4-acid ICP-MS&ES	Ba ppm 1 milled 4-acid ICP-MS&ES	Be ppm 1 milled 4-acid ICP-MS&ES	Bi ppm 0.04 milled 4-acid ICP-MS&ES	Ca % 0.02 milled 4-acid ICP-MS&ES	Cd ppm 0.02 milled 4-acid ICP-MS&ES	Ce ppm 0.02 milled 4-acid ICP-MS&ES	Co ppm 0.2 milled 4-acid ICP-MS&ES	Cr ppm 1 milled 4-acid ICP-MS&ES	Cs ppm 0.1 milled 4-acid ICP-MS&ES	Cu ppm 0.02 milled 4-acid ICP-MS&ES	Dy ppm 0.1 milled 4-acid ICP-MS&ES	Er ppm 0.1 milled 4-acid ICP-MS&ES	Eu ppm 0.1 milled 4-acid ICP-MS&ES	Fe % 0.02 milled 4-acid ICP-MS&ES	Ga ppm 0.02 milled 4-acid ICP-MS&ES
1	NB071001	184	5.58	12.5	<0.1	275	2	0.19	0.24	0.12	52.08	13.0	48	3.7	15.41	2.2	1.2	0.7	2.89	12.46
2	NB071002	180	6.40	12.6	<0.1	393	2	0.24	0.36	0.09	75.25	16.7	51	4.6	24.83	4.0	2.0	1.3	3.56	15.92
3	NB071003	268	6.23	10.5	<0.1	224	2	0.18	0.46	0.24	55.72	14.3	44	2.8	19.80	3.5	2.0	0.7	3.73	16.11
4	NB071004	182	6.92	6.2	<0.1	371	3	0.32	1.06	0.08	42.90	6.9	19	5.7	10.47	3.6	1.8	0.8	1.77	14.51
5	NB071005	288	7.72	14.5	<0.1	343	3	0.57	0.71	0.17	67.78	13.8	52	7.7	14.76	3.8	1.9	0.9	3.72	18.04
6	NB071007	289	8.29	20.4	<0.1	632	2	0.28	0.20	0.13	75.98	14.8	57	14.3	37.38	3.1	1.7	1.3	4.31	22.28
7	NB071009	185	5.47	11.5	<0.1	273	2	0.19	0.11	0.13	54.40	14.3	45	3.7	19.77	2.7	1.4	0.8	3.22	13.60
8	NB071010	172	7.24	22.7	<0.1	365	2	0.23	0.28	0.14	52.58	18.0	74	4.8	31.69	2.5	1.3	0.8	3.82	16.36
9	NB071011	119	6.62	7.5	<0.1	312	2	0.22	0.25	0.07	45.77	10.7	58	4.6	18.10	2.4	1.2	0.7	2.89	15.88
10	NB071012	125	5.52	7.9	<0.1	290	2	0.13	0.44	0.05	52.16	6.5	33	3.4	11.28	2.2	0.9	0.7	1.74	11.46
11	NB071013	136	5.25	7.5	<0.1	252	1	0.16	0.09	0.13	48.80	11.8	39	3.3	13.84	2.0	1.1	0.6	2.55	12.36
12	NB071014	152	3.97	7.0	<0.1	197	1	0.20	0.07	0.10	38.14	7.9	26	2.2	9.34	1.7	1.0	0.7	2.13	8.81
13	NB071015	187	6.31	7.9	<0.1	361	2	0.16	0.48	0.09	42.03	7.7	40	3.3	11.79	2.0	1.3	0.8	2.49	14.59
14	NB071016	186	6.66	11.0	<0.1	351	2	0.30	0.62	0.14	65.42	13.3	50	3.0	16.69	2.6	1.0	0.8	3.07	14.27
15	NB071017	214	6.86	14.9	<0.1	346	2	0.17	0.20	0.16	64.28	19.5	72	3.5	23.11	2.8	1.3	0.9	3.70	15.62
16	NB071018	289	8.54	4.6	<0.1	420	3	0.24	0.27	0.14	63.01	23.7	73	5.7	26.55	4.0	1.9	1.0	5.18	21.72
17	NB071019	253	8.30	11.4	<0.1	422	3	0.33	0.10	0.18	51.40	25.3	78	6.4	33.85	3.7	2.2	1.0	6.38	23.14
18	NB071020	241	6.55	12.0	<0.1	321	2	0.17	0.11	0.08	61.98	13.0	51	5.1	15.65	2.9	1.5	1.0	3.41	15.41
19	NB071021	216	5.01	13.1	<0.1	195	3	0.27	0.20	0.11	52.11	14.3	33	4.8	12.98	2.9	1.4	0.5	3.01	12.09
20	NB071022	134	6.13	6.0	<0.1	206	2	0.31	1.02	0.19	53.78	10.1	31	1.6	30.43	3.8	2.1	0.9	2.88	12.05
21	NB071023	199	6.12	15.4	<0.1	330	2	0.24	0.44	0.18	60.65	14.5	59	4.0	20.91	2.4	1.2	0.8	3.02	15.35
22	NB071024	251	6.10	14.2	<0.1	319	1	0.13	0.33	0.11	53.36	10.8	51	2.9	13.97	2.1	1.3	1.0	3.18	13.81
23	NB071025	80	6.16	5.9	<0.1	327	3	0.33	0.64	0.16	67.17	8.5	24	3.5	9.57	3.1	1.8	0.9	1.72	12.80
24	NB071027	207	6.98	15.8	<0.1	405	2	0.17	0.36	0.15	59.22	21.1	100	3.6	29.80	3.5	1.9	1.4	4.36	16.59
25	NB071028	241	6.29	16.5	<0.1	288	2	0.14	0.25	0.12	57.38	17.4	77	3.9	23.66	2.8	1.4	0.8	3.56	14.96
26	NB071029	222	6.29	10.7	<0.1	259	1	0.16	0.19	0.09	53.99	17.0	101	3.7	22.32	2.1	1.1	0.7	4.02	15.53
27	NB071030	175	6.92	10.6	<0.1	383	2	0.18	0.15	0.10	60.48	20.8	88	3.7	24.08	2.4	1.2	0.7	4.19	17.23
28	NB071031	232	7.58	19.8	<0.1	324	2	0.19	0.26	0.17	55.52	21.0	88	3.7	29.74	2.6	1.5	0.7	4.54	16.79
29	NB071032	118	7.62	5.8	<0.1	290	2	0.16	0.42	0.06	63.14	11.7	40	4.2	19.70	2.6	1.1	0.9	3.07	15.22
30	NB071033	215	5.45	7.3	<0.1	193	1	0.20	0.18	0.09	53.40	11.3	37	3.4	18.26	2.4	1.5	0.7	3.54	13.44
31	NB071034	200	5.12	6.7	<0.1	253	1	0.13	0.09	0.10	49.61	11.5	32	2.8	19.37	2.5	1.3	0.8	2.62	12.43
32	NB071035	124	4.69	7.5	<0.1	214	<1	0.13	0.09	0.12	41.77	8.6	23	2.0	9.36	2.1	1.1	0.6	2.05	9.55
33	NB071036	168	6.24	14.1	<0.1	311	2	0.20	0.23	0.10	58.18	13.9	46	5.5	20.31	3.0	1.7	0.7	3.05	14.92
34	NB071037	82	4.02	7.5	<0.1	226	<1	0.06	0.13	0.04	42.53	7.8	39	1.7	8.32	2.8	1.3	0.6	1.58	8.80
35	NB071038	202	4.65	14.1	<0.1	208	1	0.14	0.12	0.09	63.69	10.0	37	4.1	12.02	2.9	1.6	0.8	2.66	11.81
36	NB071039	295	6.47	11.5	<0.1	339	2	0.18	0.11	0.07	59.13	13.4	48	5.8	21.96	2.5	1.5	0.7	3.90	15.02
37	NB071040	113	6.59	1.8	<0.1	199	5	0.25	0.68	0.12	47.14	8.4	35	4.9	7.42	2.9	1.8	0.6	2.13	15.42
38	NB071041	300	6.51	13.3	<0.1	334	2	0.15	0.78	0.12	59.47	15.4	48	4.3	28.06	4.0	2.4	1.5	3.62	14.85
39	NB071042	123	7.10	1.7	<0.1	288	1	0.13	0.77	0.17	43.60	8.7	37	1.9	31.06	3.6	2.1	0.7	2.67	12.47
40	NB071043	241	7.70	11.0	<0.1	437	1	0.17	0.68	0.17	47.86	15.7	47	5.6	26.61	2.7	1.7	0.7	3.70	17.02
41	NB071044	270	7.62	5.1	<0.1	343	1	0.21	2.58	0.51	49.62	14.5	52	2.0	30.08	4.3	2.3	1.2	3.89	14.31
42	NB071045	118	7.47	0.6	<0.1	319	4	0.16	1.02	0.14	60.63	8.0	17	6.8	11.99	3.3	1.1	0.9	2.22	19.68
43	NB071046	153	6.44	8.2	<0.1	304	2	0.17	0.08	0.11	50.87	13.5	46	4.6	19.80	1.8	1.3	0.6	3.06	15.47
44	NB071047	116	5.17	8.5	<0.1	265	1	0.16	0.08	0.11	48.32	10.7	43	3.2	20.02	2.3	1.5	0.8	2.61	11.32

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
1	NB071001	3.2	2.92	0.4	1.73	22.9	35.7	0.2	0.69	537	0.70	0.906	11.21	21.2	28.4	0.036	15.13	5.5	75.9	<0.04
2	NB071002	5.6	3.32	0.8	2.07	33.9	44.8	0.3	0.76	780	0.43	0.927	12.72	35.8	33.6	0.050	17.78	8.8	91.4	<0.04
3	NB071003	3.8	4.27	0.7	1.34	24.6	38.1	0.3	0.67	772	0.34	0.449	17.83	25.0	29.4	0.019	11.46	5.9	64.5	<0.04
4	NB071004	3.4	2.52	0.5	2.35	20.0	27.8	0.2	0.56	342	0.50	2.221	14.20	20.0	12.4	0.054	15.97	5.3	102.5	<0.04
5	NB071005	4.6	4.97	0.7	2.61	31.2	54.4	0.3	1.05	540	0.66	1.816	15.92	30.5	29.4	0.072	24.51	8.0	118.0	<0.04
6	NB071007	4.6	3.41	0.6	3.12	34.3	70.3	0.3	0.53	484	1.47	0.936	10.83	33.5	34.8	0.043	18.79	8.3	136.7	<0.04
7	NB071009	3.3	3.33	0.5	1.73	26.1	38.0	0.2	0.58	620	0.43	0.506	11.40	24.4	28.4	0.024	14.70	6.3	79.2	<0.04
8	NB071010	3.0	2.67	0.5	2.45	22.7	44.5	0.2	0.92	1207	1.43	1.143	8.76	23.0	56.5	0.047	20.60	5.6	106.1	<0.04
9	NB071011	3.1	3.17	0.4	1.51	20.5	44.6	0.2	0.82	435	0.36	1.197	10.70	22.6	36.1	0.030	12.83	5.2	68.3	<0.04
10	NB071012	3.2	2.67	0.3	1.96	22.8	27.0	0.2	0.62	291	0.23	1.659	8.81	24.5	21.9	0.038	15.88	5.8	65.9	<0.04
11	NB071013	2.4	2.80	0.4	1.65	19.8	32.5	0.2	0.57	393	0.40	0.756	9.25	19.3	29.5	0.025	15.58	4.7	71.9	<0.04
12	NB071014	2.6	2.26	0.4	1.43	17.4	25.3	0.2	0.39	289	0.57	0.585	6.87	19.6	22.0	0.028	10.50	4.7	58.7	<0.04
13	NB071015	2.9	3.04	0.4	2.09	21.8	34.8	0.2	0.82	312	0.31	1.836	9.60	21.2	28.7	0.047	12.59	5.2	98.0	<0.04
14	NB071016	4.2	2.13	0.4	1.54	27.6	32.2	0.2	0.86	567	0.56	1.540	8.48	28.8	37.3	0.061	15.71	6.9	57.3	<0.04
15	NB071017	4.1	3.42	0.5	1.70	29.2	31.8	0.2	0.96	775	0.37	1.177	11.84	29.6	45.4	0.036	14.57	7.3	84.0	<0.04
16	NB071018	4.7	4.05	0.7	2.49	29.6	53.8	0.3	0.97	938	0.22	0.305	15.77	33.2	46.2	0.024	11.35	7.9	98.9	<0.04
17	NB071019	4.7	4.33	0.7	2.73	24.3	60.3	0.3	0.67	661	0.33	0.290	14.20	25.4	56.5	0.035	20.35	6.3	113.3	<0.04
18	NB071020	3.6	3.33	0.6	1.99	32.2	42.3	0.3	0.64	637	0.47	0.808	11.51	29.6	26.8	0.031	13.57	7.5	101.6	<0.04
19	NB071021	3.5	3.43	0.5	1.83	23.5	50.1	0.2	0.41	1339	8.71	0.984	13.78	22.7	15.6	0.021	18.71	5.9	116.9	<0.04
20	NB071022	3.1	3.61	0.7	1.14	20.9	16.7	0.4	0.82	543	0.51	2.200	11.27	21.2	15.2	0.034	14.80	5.5	51.0	<0.04
21	NB071023	3.5	3.30	0.4	1.96	22.9	42.3	0.2	0.75	564	0.46	1.513	10.46	26.6	36.4	0.046	18.72	6.0	74.4	<0.04
22	NB071024	3.1	3.03	0.4	1.64	27.0	34.2	0.2	0.82	494	0.34	1.435	8.56	26.9	32.4	0.043	12.95	6.7	77.5	<0.04
23	NB071025	3.9	2.49	0.7	2.20	29.6	28.6	0.3	0.50	413	0.43	1.734	13.24	28.8	16.8	0.044	24.49	8.0	106.4	<0.04
24	NB071027	4.4	3.14	0.7	2.13	26.9	49.0	0.3	1.46	1150	0.40	1.533	8.24	31.8	73.2	0.083	17.45	7.1	77.7	<0.04
25	NB071028	3.5	3.38	0.5	1.66	24.4	43.7	0.3	1.16	754	0.49	1.327	9.59	26.2	57.9	0.048	12.03	6.4	69.2	<0.04
26	NB071029	2.8	3.07	0.4	1.48	20.3	43.1	0.2	1.16	660	0.32	1.012	9.64	20.7	60.7	0.058	11.60	5.1	68.6	<0.04
27	NB071030	3.3	3.77	0.4	2.07	24.6	41.1	0.2	1.19	1106	0.43	1.233	11.09	26.3	59.2	0.035	18.55	6.6	80.0	<0.04
28	NB071031	3.1	3.30	0.5	1.82	25.1	41.5	0.3	1.23	1044	0.66	1.184	9.68	25.9	60.7	0.067	21.19	6.1	85.9	<0.04
29	NB071032	3.7	2.50	0.4	1.73	30.3	38.1	0.2	0.73	507	0.47	1.607	12.68	31.0	29.5	0.049	22.58	7.5	80.2	<0.04
30	NB071033	3.4	4.25	0.5	1.19	25.5	35.9	0.3	0.50	329	0.40	0.494	14.34	25.5	23.4	0.013	13.97	6.0	61.3	<0.04
31	NB071034	3.2	2.98	0.5	1.61	24.3	31.6	0.3	0.59	433	0.90	0.959	10.64	24.8	22.0	0.022	10.32	6.0	73.0	<0.04
32	NB071035	2.5	3.00	0.4	1.31	19.8	27.5	0.2	0.37	257	0.65	0.884	9.27	19.5	17.3	0.023	10.98	4.5	58.6	<0.04
33	NB071036	3.6	3.70	0.6	1.69	24.5	54.6	0.3	0.86	673	0.49	0.923	11.60	25.5	26.8	0.037	17.71	6.0	71.7	<0.04
34	NB071037	3.1	2.83	0.5	1.50	19.5	17.3	0.2	0.31	206	0.40	0.476	7.88	21.8	14.2	0.010	9.46	4.8	55.8	<0.04
35	NB071038	3.8	3.94	0.5	1.22	25.8	40.4	0.3	0.48	409	0.46	0.509	14.40	25.9	24.9	0.017	11.27	6.1	62.1	<0.04
36	NB071039	2.9	3.49	0.5	2.25	30.5	49.2	0.3	0.76	336	0.60	0.588	11.51	25.7	29.1	0.026	20.21	6.8	109.2	<0.04
37	NB071040	3.3	3.17	0.6	2.61	20.8	38.1	0.3	0.62	512	0.22	2.028	15.90	19.9	16.0	0.030	26.32	5.5	172.0	<0.04
38	NB071041	4.6	3.56	0.8	1.73	28.4	40.6	0.3	0.99	803	0.38	1.208	11.59	31.9	32.6	0.036	13.18	7.8	76.8	<0.04
39	NB071042	3.1	3.41	0.8	1.61	13.7	21.2	0.4	0.73	357	0.48	1.906	10.50	15.7	21.2	0.025	13.79	3.5	55.7	<0.04
40	NB071043	2.3	2.98	0.5	2.24	23.7	55.1	0.2	1.33	658	0.62	1.156	10.01	18.9	33.8	0.051	19.00	5.3	99.3	<0.04
41	NB071044	4.2	3.31	0.9	1.23	22.2	18.4	0.3	1.23	659	0.94	2.235	7.67	23.0	24.7	0.053	22.89	5.7	42.9	<0.04
42	NB071045	4.3	2.62	0.5	2.84	31.7	73.0	0.1	0.55	404	0.10	2.457	16.82	31.6	11.6	0.118	20.36	7.5	133.9	<0.04
43	NB071046	2.0	3.03	0.4	1.77	25.5	50.3	0.2	0.82	480	0.29	1.050	11.33	20.7	28.2	0.024	21.38	5.5	94.2	<0.04
44	NB071047	2.6	3.11	0.5	1.42	23.7	37.6	0.2	0.51	417	0.44	0.664	9.79	22.1	22.9	0.015	14.74	5.8	65.4	<0.04

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
1	NB071001	0.83	7.7	3.9	1.9	65	0.6	0.4	7.6	0.332	0.2	1.9	62	1.0	11.1	1.5	54.8	101.7
2	NB071002	0.98	10.9	5.9	2.2	75	0.8	0.8	9.6	0.419	0.3	2.2	97	1.3	20.3	2.0	59.6	114.5
3	NB071003	0.61	8.4	4.4	2.3	70	0.9	0.6	9.1	0.444	0.3	2.1	84	0.8	17.5	2.4	61.5	146.5
4	NB071004	0.50	5.8	4.1	2.9	181	1.2	0.5	8.8	0.317	0.2	2.3	45	0.5	17.1	1.7	30.0	93.8
5	NB071005	0.97	10.2	5.4	4.4	114	1.3	0.7	16.4	0.469	0.3	3.8	96	2.4	17.6	2.1	62.0	160.1
6	NB071007	7.83	13.3	5.4	3.0	97	0.6	0.5	9.5	0.381	0.3	2.8	101	1.1	14.8	2.3	97.9	129.1
7	NB071009	0.88	8.8	4.2	2.1	41	0.6	0.5	8.0	0.361	0.2	2.0	86	1.0	14.0	1.6	53.5	119.1
8	NB071010	3.47	11.0	4.0	1.8	71	0.5	0.4	7.3	0.371	0.2	2.1	96	1.2	12.1	1.6	66.6	88.7
9	NB071011	0.81	7.9	4.0	2.2	71	0.7	0.4	8.0	0.350	0.2	1.8	69	1.1	10.4	1.5	53.6	105.8
10	NB071012	0.50	5.1	3.9	1.3	87	0.6	0.4	8.0	0.251	0.1	1.6	43	1.1	8.6	1.0	32.4	89.7
11	NB071013	0.67	6.7	3.2	1.8	38	0.6	0.3	7.2	0.298	0.2	1.7	56	1.4	9.5	1.3	57.3	97.9
12	NB071014	0.67	5.1	3.7	1.3	30	0.4	0.3	5.4	0.219	0.2	1.2	43	0.7	9.4	1.2	43.9	73.6
13	NB071015	0.58	7.1	3.5	1.9	102	0.7	0.4	5.8	0.340	0.2	1.6	62	0.8	12.0	1.4	44.5	105.2
14	NB071016	0.51	7.7	5.0	1.6	103	0.5	0.5	9.0	0.302	0.2	1.6	68	1.1	10.1	1.1	71.1	71.4
15	NB071017	0.69	10.4	4.6	2.0	65	0.6	0.5	7.5	0.461	0.2	1.6	86	1.4	11.9	1.7	83.3	122.1
16	NB071018	0.76	13.9	5.8	2.9	95	0.8	0.6	8.5	0.530	0.3	2.4	110	1.1	17.5	2.5	85.4	141.5
17	NB071019	1.19	14.3	4.7	2.9	57	0.8	0.7	9.5	0.446	0.4	2.6	154	1.1	16.1	2.4	190.8	146.1
18	NB071020	0.70	9.3	4.9	2.0	51	0.7	0.5	8.4	0.398	0.2	2.1	71	0.9	14.6	2.1	56.0	117.5
19	NB071021	0.84	6.3	4.0	2.6	46	1.0	0.5	12.0	0.316	0.3	8.1	53	1.5	13.7	1.8	43.3	108.6
20	NB071022	0.80	9.3	3.8	1.8	137	0.7	0.6	8.1	0.446	0.3	1.9	74	1.0	19.9	2.2	45.0	136.6
21	NB071023	0.71	7.8	4.3	2.2	76	0.6	0.4	8.0	0.394	0.2	1.7	71	1.5	10.5	1.4	65.8	107.7
22	NB071024	0.82	9.0	4.5	1.8	73	0.5	0.4	6.9	0.356	0.2	1.6	73	0.9	10.9	1.6	62.6	111.3
23	NB071025	0.70	5.3	4.4	2.7	152	1.0	0.6	13.1	0.297	0.3	2.6	46	1.2	17.3	1.8	48.9	79.7
24	NB071027	0.86	13.4	5.2	1.7	89	0.4	0.7	8.6	0.352	0.3	1.8	114	0.7	18.3	1.8	76.3	113.9
25	NB071028	1.29	10.5	4.6	1.3	78	0.4	0.5	7.1	0.405	0.2	1.8	82	0.8	13.0	1.6	61.0	117.8
26	NB071029	0.66	9.0	3.5	1.5	64	0.5	0.4	6.4	0.442	0.2	1.6	91	0.9	9.4	1.2	66.8	106.9
27	NB071030	0.83	11.0	4.2	1.9	61	0.6	0.4	8.4	0.462	0.2	2.1	95	1.0	9.7	1.6	62.8	126.8
28	NB071031	1.05	11.6	4.3	1.9	66	0.5	0.4	7.8	0.455	0.2	1.9	102	1.0	13.2	1.9	98.8	112.8
29	NB071032	0.51	8.5	4.9	2.8	88	0.6	0.4	9.1	0.387	0.2	1.7	69	1.5	12.4	1.3	58.3	83.5
30	NB071033	0.62	7.1	4.0	2.1	43	0.9	0.5	7.0	0.452	0.3	2.0	75	1.0	13.8	1.9	51.9	130.5
31	NB071034	0.50	7.2	3.9	1.5	51	0.6	0.4	7.1	0.374	0.2	1.8	57	0.8	12.9	1.6	49.2	99.6
32	NB071035	0.42	4.6	3.5	1.2	40	0.5	0.3	5.9	0.283	0.2	1.5	45	0.7	9.8	1.3	40.7	96.2
33	NB071036	1.47	9.2	4.5	2.2	63	0.7	0.5	8.4	0.352	0.3	2.0	69	1.1	14.7	1.8	61.9	125.6
34	NB071037	0.41	4.4	3.7	1.1	32	0.4	0.4	5.4	0.226	0.2	1.3	47	0.5	11.6	1.5	33.9	86.6
35	NB071038	0.94	6.1	4.3	1.7	41	0.8	0.5	7.3	0.334	0.3	1.9	56	1.1	13.8	1.9	61.4	136.5
36	NB071039	0.89	9.7	3.5	2.1	71	0.6	0.4	8.4	0.384	0.3	2.2	73	0.9	14.2	2.0	78.8	125.6
37	NB071040	0.18	7.1	4.1	7.4	101	2.0	0.5	19.3	0.343	0.3	4.5	49	1.1	16.8	1.9	95.8	90.4
38	NB071041	1.24	12.7	5.8	1.8	101	0.6	0.6	6.8	0.485	0.3	1.7	90	0.9	22.3	2.5	61.1	134.0
39	NB071042	0.17	8.8	3.3	1.4	70	0.6	0.5	7.7	0.247	0.3	1.9	50	0.6	18.2	2.8	64.5	106.2
40	NB071043	0.60	10.8	3.3	1.7	141	0.6	0.4	8.3	0.409	0.2	1.9	88	1.1	14.2	1.9	76.6	100.5
41	NB071044	0.47	15.4	4.0	1.4	250	0.4	0.7	7.2	0.510	0.4	1.8	104	0.7	21.6	2.1	76.2	116.7
42	NB071045	0.09	5.2	5.2	4.9	177	1.0	0.6	10.3	0.275	0.2	2.2	35	0.4	15.8	1.2	79.9	89.1
43	NB071046	0.56	8.2	3.3	2.1	69	0.7	0.3	8.4	0.434	0.2	2.2	72	1.0	11.3	1.4	70.2	108.0
44	NB071047	0.60	6.5	3.9	1.4	56	0.5	0.5	8.8	0.351	0.3	2.0	59	0.8	13.8	1.4	54.1	105.4

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
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Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 milled 4-acid ICP-MS&ES	Al % 0.02 milled 4-acid ICP-MS&ES	As ppm 0.2 milled 4-acid ICP-MS&ES	Au ppm 0.1 milled 4-acid ICP-MS&ES	Ba ppm 1 milled 4-acid ICP-MS&ES	Be ppm 1 milled 4-acid ICP-MS&ES	Bi ppm 0.04 milled 4-acid ICP-MS&ES	Ca % 0.02 milled 4-acid ICP-MS&ES	Cd ppm 0.02 milled 4-acid ICP-MS&ES	Ce ppm 0.02 milled 4-acid ICP-MS&ES	Co ppm 0.2 milled 4-acid ICP-MS&ES	Cr ppm 1 milled 4-acid ICP-MS&ES	Cs ppm 0.1 milled 4-acid ICP-MS&ES	Cu ppm 0.02 milled 4-acid ICP-MS&ES	Dy ppm 0.1 milled 4-acid ICP-MS&ES	Er ppm 0.1 milled 4-acid ICP-MS&ES	Eu ppm 0.1 milled 4-acid ICP-MS&ES	Fe % 0.02 milled 4-acid ICP-MS&ES	Ga ppm 0.02 milled 4-acid ICP-MS&ES
45	NB071048	261	5.51	7.0	<0.1	205	2	0.15	0.19	0.10	54.33	13.0	39	3.8	21.28	2.9	1.6	0.7	3.06	13.18
46	NB071049	189	4.11	7.1	<0.1	220	1	0.12	0.13	0.36	48.08	10.7	28	2.5	16.17	2.6	1.3	0.6	2.17	8.97
47	NB071050	255	7.46	15.9	<0.1	270	2	0.21	0.06	0.23	54.43	23.4	98	13.2	29.90	2.3	1.2	0.7	4.70	17.17
48	NB071051	156	7.08	6.7	<0.1	254	2	0.12	0.16	0.04	55.32	11.3	76	7.0	13.12	2.4	1.3	0.7	3.39	14.64
49	NB071052	201	5.86	7.4	<0.1	283	1	0.13	0.17	0.12	54.60	11.3	66	2.8	13.96	2.3	1.2	0.8	3.45	13.96
50	NB071054	291	6.26	18.6	<0.1	307	2	0.28	0.21	0.08	64.48	13.8	58	6.1	23.47	3.5	1.9	1.0	3.55	15.11
51	NB071055	192	7.64	1.1	<0.1	121	<1	<0.04	4.31	0.14	23.46	44.9	604	0.7	63.16	2.8	1.4	0.7	6.01	13.02
52	NB071056	155	5.73	7.3	<0.1	258	1	0.11	1.16	0.08	34.39	16.6	143	2.4	28.58	2.3	1.3	0.6	3.46	12.71
53	NB072001	152	4.65	6.4	<0.1	241	1	0.09	0.09	0.08	41.71	8.6	23	2.1	7.93	1.9	1.0	0.6	1.89	9.46
54	NB072002	357	7.50	26.1	<0.1	453	2	0.41	0.39	0.16	64.32	15.3	51	2.9	31.72	3.6	1.8	1.0	3.77	17.49
55	NB072003	267	8.17	25.7	<0.1	368	1	0.22	0.49	0.34	61.52	28.3	89	3.6	35.45	3.4	1.7	0.9	5.09	18.97
56	NB072004	180	8.24	24.6	<0.1	339	2	0.49	0.73	0.29	58.81	21.7	80	3.8	29.69	4.2	2.1	0.8	5.16	20.56
57	NB072005	346	8.31	24.3	<0.1	334	2	0.27	0.39	0.24	57.89	21.2	92	5.0	48.05	3.5	1.9	0.9	5.82	21.64
58	NB072006	338	6.80	24.2	<0.1	263	3	0.29	0.26	0.31	46.42	19.4	64	4.2	26.07	3.2	1.8	0.7	3.77	18.45
59	NB072007	251	8.67	8.0	<0.1	382	2	0.16	0.36	0.15	46.25	25.9	167	4.7	30.62	4.1	2.0	1.1	4.78	20.72
60	NB072009	191	7.14	6.1	<0.1	293	2	0.13	0.08	0.08	42.30	23.4	113	3.9	23.35	2.0	1.1	0.5	4.28	17.70
61	NB072010	169	7.68	8.1	<0.1	388	2	0.15	0.36	0.19	71.45	21.2	110	2.6	21.06	3.1	1.7	0.9	4.32	17.52
62	NB072011	326	7.07	6.3	<0.1	248	1	0.16	0.39	0.22	64.54	16.6	56	2.2	18.50	2.9	1.6	0.7	4.03	16.09
63	NB072012	280	6.83	20.3	<0.1	462	4	0.27	0.18	0.22	117.72	8.0	31	5.6	14.36	5.5	2.8	0.7	3.09	25.19
64	NB072013	79	6.48	7.7	<0.1	410	2	0.11	0.22	0.04	89.08	6.0	9	2.6	7.15	2.1	0.9	0.8	1.57	13.80
65	NB072014	311	7.83	10.3	<0.1	357	2	0.15	0.16	0.17	60.54	19.7	90	3.8	32.24	2.7	1.5	0.9	4.32	17.47
66	NB072015	192	7.46	3.2	<0.1	213	1	0.06	1.69	0.14	40.39	30.1	157	1.1	39.84	2.5	1.1	0.8	4.62	17.34
67	NB072016	139	8.42	6.7	<0.1	364	2	0.19	0.13	0.23	48.79	34.0	186	8.1	59.75	3.3	1.8	1.0	5.57	19.55
68	NB072017	171	6.80	9.4	<0.1	331	2	0.11	0.13	0.14	44.85	13.8	84	4.5	20.29	2.3	1.3	0.6	3.54	13.26
69	NB072018	226	8.05	11.0	<0.1	322	2	0.16	0.22	0.15	58.76	22.0	108	3.9	37.83	2.7	1.6	0.8	4.70	18.97
70	NB072019	143	6.95	6.7	<0.1	323	1	0.15	0.18	0.12	51.30	15.4	122	3.0	22.24	1.9	1.3	0.6	3.82	14.97
71	NB072020	218	8.82	11.2	<0.1	369	2	0.13	0.12	0.13	24.98	24.4	195	3.2	35.43	2.0	1.2	0.5	5.22	18.76
72	NB072021	69	2.63	5.1	<0.1	142	<1	0.06	0.06	0.04	36.99	3.5	11	1.2	6.40	2.0	0.9	0.6	1.12	5.55
73	NB072022	106	7.70	6.8	<0.1	301	2	0.22	0.07	0.03	55.97	13.7	79	5.3	17.74	2.6	1.3	0.7	3.95	16.99
74	NB072023	192	5.59	8.9	<0.1	303	2	0.16	0.07	0.10	44.61	23.8	45	3.5	15.38	2.2	1.2	0.7	2.89	12.68
75	NB072024	210	6.84	7.9	<0.1	325	1	0.12	0.20	0.12	64.01	15.5	69	3.2	18.02	3.1	1.4	0.9	3.51	14.83
76	NB072026	184	5.60	8.0	<0.1	224	1	0.10	0.07	0.07	50.18	10.8	33	2.6	9.26	2.4	1.2	0.8	3.71	13.25
77	NB072027	187	5.84	7.3	<0.1	264	2	0.16	0.07	0.09	51.99	15.7	53	3.7	19.42	2.3	1.3	0.7	3.18	14.50
78	NB072028	210	6.14	6.7	<0.1	347	2	0.27	0.39	0.12	50.47	7.9	32	3.0	9.30	2.2	1.3	0.8	2.06	12.72
79	NB072029	122	5.22	5.7	<0.1	256	2	0.13	0.11	0.07	49.50	9.9	31	3.3	11.16	2.3	1.2	0.7	2.48	12.42
80	NB072030	59	4.07	2.9	<0.1	184	1	0.10	0.09	0.10	32.46	8.0	22	1.8	5.57	1.6	0.9	0.5	1.71	8.61
81	NB072031	158	4.72	5.6	<0.1	187	1	0.11	0.10	0.09	35.96	8.2	28	2.0	7.80	2.0	1.1	0.6	2.18	9.33
82	NB072032	212	5.51	7.6	<0.1	279	1	0.13	0.09	0.07	42.72	12.2	31	2.8	11.49	2.0	1.1	0.6	2.47	11.88
83	NB072033	123	6.01	8.2	<0.1	286	1	0.15	0.05	0.12	55.91	16.5	39	3.4	14.21	2.2	1.3	0.8	2.92	13.32
84	NB072034	143	6.66	11.1	<0.1	315	2	0.12	0.10	0.12	53.95	13.8	83	4.0	18.98	2.2	1.1	0.8	3.93	15.48
85	NB072035	280	6.34	8.6	<0.1	265	1	0.13	0.12	0.13	55.66	13.9	84	3.3	15.57	1.9	1.0	0.8	3.73	14.37
86	NB072036	193	8.15	10.7	<0.1	375	3	0.18	0.12	0.16	50.44	19.3	123	4.3	19.64	2.3	1.2	0.8	4.77	18.46
87	NB072037	339	7.39	9.7	<0.1	328	1	0.11	0.11	0.17	63.11	15.9	91	4.5	19.08	2.1	1.3	1.0	4.29	16.57
88	NB072038	266	8.26	8.6	<0.1	309	2	0.15	0.08	0.16	54.05	16.9	123	4.6	21.69	2.9	1.5	1.0	5.18	16.29

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
45	NB071048	3.2	3.69	0.5	1.24	26.2	37.2	0.2	0.60	429	0.33	0.598	13.89	24.8	24.0	0.011	13.67	6.0	69.9	<0.04
46	NB071049	2.9	3.06	0.5	1.27	22.4	27.5	0.2	0.38	521	0.46	0.624	8.81	21.4	19.7	0.018	28.98	5.2	55.7	<0.04
47	NB071050	2.5	4.30	0.5	2.32	23.1	49.2	0.3	0.94	840	0.38	0.287	12.00	22.7	63.5	0.042	21.90	5.6	91.2	<0.04
48	NB071051	3.3	3.41	0.4	1.72	27.3	49.6	0.2	1.10	285	0.22	1.251	9.79	26.0	48.1	0.047	10.61	6.5	84.4	<0.04
49	NB071052	3.3	3.01	0.4	1.60	24.8	42.8	0.2	1.02	345	0.28	1.238	8.66	24.9	47.4	0.045	9.71	6.2	64.8	<0.04
50	NB071054	4.6	3.63	0.6	1.87	32.0	51.9	0.3	0.80	461	1.11	0.757	12.99	30.2	40.3	0.035	17.39	7.1	102.2	<0.04
51	NB071055	2.9	1.76	0.5	0.56	8.1	17.3	0.2	4.35	1034	0.39	0.842	5.53	10.7	105.1	0.052	4.22	2.1	15.4	<0.04
52	NB071056	2.7	2.83	0.4	1.60	13.5	26.9	0.2	1.48	556	0.40	1.297	8.05	14.8	37.8	0.028	10.47	3.4	55.2	<0.04
53	NB072001	2.4	2.46	0.4	1.51	19.7	21.2	0.2	0.39	393	0.34	0.825	7.09	18.5	16.7	0.026	8.69	4.6	64.0	<0.04
54	NB072002	5.0	4.42	0.7	2.55	27.5	19.3	0.3	1.14	858	1.99	1.456	14.72	30.7	27.2	0.036	43.35	7.4	98.2	<0.04
55	NB072003	4.0	3.75	0.7	2.29	26.5	38.7	0.3	1.64	1290	0.90	1.381	16.12	27.4	63.2	0.085	24.30	6.5	85.1	<0.04
56	NB072004	4.1	3.59	0.7	1.66	22.3	22.2	0.3	1.45	1014	0.78	1.008	12.26	25.3	41.0	0.129	31.27	6.0	83.5	<0.04
57	NB072005	3.7	4.47	0.7	2.22	23.7	53.3	0.3	1.57	1005	1.70	1.181	16.68	25.9	60.0	0.036	38.83	6.1	81.6	<0.04
58	NB072006	3.2	4.74	0.6	2.24	19.3	39.6	0.3	1.00	827	1.27	1.490	15.31	20.0	42.4	0.036	34.90	5.0	101.5	<0.04
59	NB072007	4.9	3.34	0.7	2.44	21.2	60.9	0.3	2.12	768	0.30	1.064	11.97	28.1	117.7	0.064	15.10	6.4	80.9	<0.04
60	NB072009	2.3	3.47	0.4	2.03	14.1	57.5	0.2	1.53	475	0.21	0.706	11.82	16.5	97.2	0.048	15.51	3.9	63.4	<0.04
61	NB072010	3.6	4.22	0.7	1.80	25.0	36.0	0.3	1.34	602	0.48	1.524	14.86	23.7	69.7	0.061	17.49	6.1	73.9	<0.04
62	NB072011	2.8	4.95	0.6	1.65	20.8	31.6	0.3	0.97	458	0.56	1.579	15.66	17.9	43.8	0.037	19.39	4.9	70.6	<0.04
63	NB072012	4.9	6.58	1.1	2.60	20.7	41.7	0.5	1.12	472	2.12	1.543	50.76	26.1	26.0	0.025	30.61	5.7	93.4	<0.04
64	NB072013	3.4	2.53	0.3	3.09	33.1	17.2	0.1	0.21	299	0.35	1.135	12.57	30.8	12.2	0.019	18.76	7.6	107.5	<0.04
65	NB072014	4.0	3.73	0.5	2.01	32.1	44.7	0.3	1.49	450	0.36	1.111	11.63	29.3	74.8	0.040	15.97	7.1	97.6	<0.04
66	NB072015	3.0	3.17	0.5	0.71	12.1	21.3	0.2	2.80	878	0.24	1.145	7.13	15.9	89.6	0.068	6.42	3.7	7.0	<0.04
67	NB072016	3.7	2.90	0.6	2.09	15.0	90.1	0.3	2.70	568	1.48	1.119	9.48	19.9	207.3	0.064	21.89	4.8	59.6	<0.04
68	NB072017	2.7	3.42	0.5	1.46	18.4	43.9	0.2	0.99	343	0.32	1.085	10.79	18.6	74.5	0.039	14.71	4.5	64.7	<0.04
69	NB072018	3.1	3.62	0.6	2.09	25.3	46.2	0.3	1.59	786	0.78	1.123	12.78	24.4	83.3	0.053	16.18	6.0	91.2	<0.04
70	NB072019	2.4	3.38	0.4	1.68	22.1	41.4	0.2	1.48	418	0.31	1.160	11.27	19.9	84.7	0.036	14.52	5.5	79.5	<0.04
71	NB072020	2.1	3.67	0.4	2.34	10.3	58.9	0.2	2.65	719	0.20	1.555	12.08	10.7	163.9	0.066	13.93	2.9	68.4	<0.04
72	NB072021	2.4	1.37	0.3	0.99	15.4	14.9	0.2	0.21	156	0.17	0.608	4.24	16.4	10.1	0.013	7.10	3.8	37.4	<0.04
73	NB072022	2.9	3.58	0.5	1.99	27.3	40.3	0.3	0.79	346	0.35	0.633	12.45	26.0	32.1	0.021	9.85	6.0	96.8	<0.04
74	NB072023	2.6	2.99	0.5	2.11	20.2	39.7	0.2	0.67	613	0.55	0.963	10.38	21.7	29.1	0.028	16.17	4.8	79.2	<0.04
75	NB072024	4.0	3.53	0.5	1.74	25.6	47.7	0.2	1.08	378	0.33	1.383	9.10	28.8	54.2	0.048	14.13	6.7	70.5	<0.04
76	NB072026	3.3	2.52	0.5	1.34	24.5	37.6	0.2	0.53	235	0.64	0.933	9.62	23.2	24.2	0.030	10.30	5.5	64.6	<0.04
77	NB072027	2.6	3.23	0.4	1.56	22.9	42.1	0.2	0.78	498	0.36	0.919	11.35	22.6	33.6	0.018	11.76	5.3	69.3	<0.04
78	NB072028	3.1	2.60	0.4	2.48	21.5	22.6	0.2	0.56	292	0.57	1.673	9.61	20.8	17.7	0.043	17.97	5.2	98.7	<0.04
79	NB072029	2.5	3.13	0.4	1.42	22.3	29.1	0.2	0.54	340	0.26	0.734	10.21	21.1	20.8	0.020	10.54	5.3	67.4	<0.04
80	NB072030	1.8	1.84	0.3	1.34	15.4	24.7	0.2	0.42	325	0.21	1.033	5.17	13.7	14.6	0.020	8.39	4.0	63.9	<0.04
81	NB072031	2.7	2.34	0.4	1.31	17.8	32.2	0.2	0.45	375	0.30	1.022	7.10	17.5	17.4	0.018	8.75	4.2	56.2	<0.04
82	NB072032	2.1	2.74	0.4	1.75	20.9	31.8	0.2	0.55	540	0.29	0.831	8.65	17.8	23.1	0.017	11.20	4.8	81.4	<0.04
83	NB072033	2.7	2.95	0.5	1.86	26.3	32.8	0.2	0.61	900	0.31	0.860	9.39	22.9	24.6	0.026	21.16	6.2	93.3	<0.04
84	NB072034	3.2	3.15	0.4	1.76	24.5	52.6	0.2	1.08	323	0.34	0.972	7.43	25.5	52.5	0.059	12.10	6.2	70.4	<0.04
85	NB072035	2.8	3.34	0.4	1.67	27.7	45.6	0.2	1.03	324	0.29	1.311	8.92	27.6	54.4	0.066	11.99	6.5	74.1	<0.04
86	NB072036	3.3	3.56	0.4	2.34	24.4	65.1	0.2	1.60	571	0.26	1.272	8.17	24.0	77.8	0.061	15.40	6.8	93.6	<0.04
87	NB072037	3.3	3.28	0.4	1.67	34.7	55.7	0.2	1.18	342	0.33	1.331	8.76	31.2	67.1	0.052	11.83	8.1	91.6	<0.04
88	NB072038	3.8	3.01	0.5	1.65	27.6	66.5	0.3	1.15	487	0.34	0.809	8.22	26.2	76.8	0.112	13.93	6.9	88.6	<0.04



C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
45	NB071048	0.60	8.1	4.0	1.8	54	0.7	0.4	7.4	0.430	0.3	2.0	66	0.9	14.8	1.8	58.4	129.8
46	NB071049	0.54	5.8	3.8	1.3	53	0.5	0.4	6.3	0.310	0.2	1.6	45	0.8	12.0	1.6	119.4	95.0
47	NB071050	2.74	11.8	3.5	2.0	39	0.7	0.5	9.2	0.549	0.2	2.2	118	2.0	12.2	1.7	85.8	155.5
48	NB071051	0.53	9.1	4.0	1.6	63	0.5	0.4	7.7	0.375	0.2	1.7	84	0.9	11.5	1.6	57.8	109.8
49	NB071052	0.39	8.8	3.9	1.4	63	0.4	0.4	6.4	0.310	0.2	1.5	71	0.6	10.6	1.5	60.1	104.0
50	NB071054	2.26	9.4	5.1	2.5	58	0.7	0.5	9.6	0.415	0.3	2.4	79	1.7	16.9	2.2	67.8	128.4
51	NB071055	0.14	30.8	2.5	0.7	72	0.3	0.4	2.0	0.460	0.2	0.5	199	0.3	12.8	1.5	57.6	66.6
52	NB071056	0.53	12.6	2.9	1.4	80	0.5	0.4	4.8	0.400	0.2	1.4	96	0.8	11.1	1.5	45.5	94.5
53	NB072001	0.42	5.1	3.0	1.1	39	0.4	0.3	5.6	0.205	0.2	1.4	41	0.6	9.8	1.2	33.2	81.5
54	NB072002	1.38	12.1	5.6	3.2	70	0.9	0.6	11.2	0.504	0.3	3.3	83	2.1	16.2	2.0	77.8	133.2
55	NB072003	2.75	15.0	5.0	2.7	90	0.8	0.6	9.0	0.656	0.3	2.6	157	1.7	17.3	2.1	108.4	133.2
56	NB072004	1.58	14.2	5.0	3.9	60	0.7	0.7	9.7	0.555	0.3	3.2	122	2.0	17.4	2.4	126.6	118.2
57	NB072005	1.31	13.6	4.5	3.5	104	0.8	0.5	8.8	0.738	0.3	3.5	156	1.5	17.2	2.3	104.7	171.9
58	NB072006	1.05	8.6	3.7	2.6	77	0.9	0.5	11.1	0.502	0.3	3.0	85	1.5	15.6	2.2	102.0	165.4
59	NB072007	0.33	16.1	5.3	2.0	63	0.6	0.7	6.4	0.489	0.3	1.6	104	0.9	18.8	2.3	87.3	118.5
60	NB072009	0.31	9.8	2.7	1.5	64	0.6	0.3	5.4	0.479	0.2	1.6	95	0.8	8.2	1.4	74.7	125.1
61	NB072010	0.98	10.1	3.6	1.8	146	0.7	0.6	8.8	0.657	0.3	2.3	94	0.8	15.4	1.8	67.1	160.7
62	NB072011	0.93	8.0	3.0	2.2	134	0.9	0.5	8.6	0.560	0.3	2.4	105	1.1	14.6	1.9	78.4	167.2
63	NB072012	1.02	5.9	5.1	6.4	38	2.4	0.8	13.2	0.265	0.5	3.6	48	2.1	22.2	3.5	153.8	222.2
64	NB072013	0.23	4.6	5.0	2.2	53	0.7	0.4	15.6	0.184	0.1	3.1	25	0.8	8.8	1.0	29.0	71.6
65	NB072014	0.58	12.5	4.2	2.0	69	0.6	0.4	8.6	0.517	0.3	2.1	103	0.9	13.0	1.8	73.3	131.1
66	NB072015	0.17	13.0	3.0	0.8	419	0.4	0.4	2.3	0.619	0.2	1.1	140	0.3	10.0	1.3	54.7	113.6
67	NB072016	0.74	17.0	3.8	1.7	75	0.5	0.6	6.2	0.448	0.3	2.3	127	0.6	14.3	1.8	100.7	108.2
68	NB072017	0.59	8.4	3.4	1.5	66	0.5	0.4	6.7	0.422	0.2	1.8	76	0.8	11.5	1.6	69.2	122.8
69	NB072018	0.89	13.6	4.0	2.1	89	0.6	0.4	7.6	0.578	0.3	2.0	113	1.1	14.4	2.0	81.3	128.6
70	NB072019	0.34	9.6	3.0	1.4	86	0.6	0.4	8.4	0.478	0.2	2.1	88	0.8	11.9	1.3	62.6	119.8
71	NB072020	0.95	15.4	2.2	1.7	102	0.6	0.3	5.7	0.490	0.2	1.6	136	0.9	8.9	1.3	110.1	126.4
72	NB072021	0.29	2.6	2.8	0.7	28	0.2	0.3	3.6	0.114	0.1	0.8	25	0.3	8.2	1.2	18.1	49.3
73	NB072022	0.65	10.0	3.8	1.9	67	0.7	0.4	8.5	0.454	0.2	1.8	96	1.1	11.9	1.9	53.1	113.7
74	NB072023	0.59	7.6	3.1	1.9	47	0.6	0.4	7.8	0.328	0.2	1.8	80	0.9	11.5	1.4	109.6	107.8
75	NB072024	0.32	9.2	4.8	1.6	67	0.4	0.5	7.2	0.310	0.2	1.8	78	0.6	12.4	1.7	71.3	118.0
76	NB072026	0.47	7.4	4.2	1.5	51	0.5	0.4	5.9	0.337	0.2	1.5	63	0.8	11.5	1.4	53.7	89.9
77	NB072027	0.53	8.4	3.6	1.6	60	0.6	0.3	7.3	0.386	0.2	1.7	71	0.8	11.6	1.7	52.2	116.1
78	NB072028	0.49	6.8	3.4	2.3	77	0.6	0.5	8.7	0.279	0.2	1.9	63	1.3	11.7	1.4	44.7	87.7
79	NB072029	0.40	6.1	3.7	1.6	43	0.6	0.4	6.7	0.290	0.2	1.6	54	0.9	10.8	1.5	46.7	106.3
80	NB072030	0.34	4.2	2.5	1.2	44	0.4	0.3	5.5	0.193	0.2	1.7	38	0.5	9.2	1.1	38.4	64.4
81	NB072031	0.41	5.3	3.0	1.1	40	0.4	0.3	6.5	0.225	0.2	1.3	40	0.7	9.4	1.2	33.9	78.8
82	NB072032	0.51	7.4	2.8	1.7	51	0.5	0.3	6.0	0.287	0.2	1.4	55	0.8	11.2	1.2	49.4	97.3
83	NB072033	0.58	7.5	3.6	1.9	52	0.6	0.4	9.0	0.328	0.2	2.0	62	0.8	12.4	1.5	63.4	105.0
84	NB072034	0.50	10.0	4.3	1.5	38	0.4	0.4	6.5	0.274	0.2	1.4	84	0.4	9.4	1.6	76.7	103.6
85	NB072035	0.40	10.1	4.2	1.4	53	0.4	0.3	7.2	0.344	0.2	1.6	81	0.6	9.3	1.4	83.1	113.8
86	NB072036	0.45	13.4	4.0	1.9	42	0.5	0.4	7.5	0.304	0.2	1.8	128	0.7	10.0	1.7	88.7	117.6
87	NB072037	0.42	10.8	4.8	1.6	55	0.4	0.4	8.0	0.359	0.2	1.9	91	0.5	11.2	1.7	99.6	124.0
88	NB072038	0.37	12.7	4.3	1.8	33	0.4	0.4	7.7	0.327	0.2	1.9	95	0.8	12.4	1.5	110.1	111.0

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 milled 4-acid ICP-MS&ES	Al % 0.02 milled 4-acid ICP-MS&ES	As ppm 0.2 milled 4-acid ICP-MS&ES	Au ppm 0.1 milled 4-acid ICP-MS&ES	Ba ppm 1 milled 4-acid ICP-MS&ES	Be ppm 1 milled 4-acid ICP-MS&ES	Bi ppm 0.04 milled 4-acid ICP-MS&ES	Ca % 0.02 milled 4-acid ICP-MS&ES	Cd ppm 0.02 milled 4-acid ICP-MS&ES	Ce ppm 0.02 milled 4-acid ICP-MS&ES	Co ppm 0.2 milled 4-acid ICP-MS&ES	Cr ppm 1 milled 4-acid ICP-MS&ES	Cs ppm 0.1 milled 4-acid ICP-MS&ES	Cu ppm 0.02 milled 4-acid ICP-MS&ES	Dy ppm 0.1 milled 4-acid ICP-MS&ES	Er ppm 0.1 milled 4-acid ICP-MS&ES	Eu ppm 0.1 milled 4-acid ICP-MS&ES	Fe % 0.02 milled 4-acid ICP-MS&ES	Ga ppm 0.02 milled 4-acid ICP-MS&ES
89	NB072039	168	7.19	7.3	<0.1	317	1	0.14	0.09	0.15	62.75	14.8	96	3.4	21.11	2.0	1.2	0.9	3.88	15.11
90	NB072040	274	6.66	7.2	<0.1	259	1	0.14	0.12	0.11	47.68	13.1	96	3.6	18.18	2.0	1.0	0.7	4.23	15.27
91	NB072041	251	6.83	8.8	<0.1	436	2	0.17	0.12	0.16	58.08	10.4	100	4.4	17.84	2.7	1.6	1.0	4.18	21.74
92	NB072042	548	6.82	8.4	<0.1	356	1	0.13	0.19	0.17	70.05	15.8	82	3.4	19.80	3.6	2.1	1.2	3.40	15.16
93	NB072043	157	6.55	8.8	<0.1	307	1	0.17	0.21	0.16	64.53	13.0	77	3.2	16.03	2.2	1.3	0.8	3.96	15.17
94	NB072044	133	4.37	4.3	<0.1	233	1	0.08	0.06	0.13	37.96	8.3	21	2.3	8.46	1.7	1.2	0.6	2.08	9.58
95	NB072045	110	5.30	1.7	<0.1	224	1	0.09	0.08	0.09	49.94	8.3	25	2.3	7.00	2.2	1.2	0.7	2.03	10.41
96	NB072046	198	6.00	6.9	<0.1	294	2	0.27	0.09	0.06	60.74	15.0	35	3.8	18.76	2.8	1.5	0.8	3.15	14.70
97	NB072047	126	5.18	6.2	<0.1	241	1	0.11	0.06	0.10	47.94	9.1	31	2.8	13.26	2.4	1.4	0.7	2.57	11.68
98	NB072048	190	5.24	9.1	<0.1	283	2	0.13	0.10	0.18	48.67	13.7	33	3.1	12.38	2.2	1.3	0.7	2.48	11.64
99	NB072050	200	6.22	6.9	<0.1	265	2	0.17	0.09	0.11	46.64	13.7	44	4.2	14.93	2.4	1.5	0.6	3.84	15.41
100	NB072051	151	7.10	9.3	<0.1	264	1	0.15	0.08	0.27	56.17	14.9	46	4.8	15.78	2.5	1.4	0.8	3.63	15.72
101	NB072052	113	6.19	8.0	<0.1	275	2	0.20	0.06	0.20	59.62	14.9	51	4.0	18.81	2.5	1.5	0.8	3.33	14.01
102	NB072053	143	5.98	5.4	<0.1	267	1	0.21	0.58	0.15	45.90	13.8	63	1.9	19.44	3.0	1.6	0.8	3.74	13.21
103	NB072054	204	6.17	6.1	<0.1	292	1	0.11	0.15	0.10	65.62	14.1	67	2.8	15.53	2.5	1.3	1.0	3.45	14.75
104	NB072055	201	6.94	8.6	<0.1	276	2	0.20	0.09	0.13	36.75	16.9	85	3.5	21.43	1.9	1.0	0.6	4.03	15.04
105	NB072056	138	6.61	7.4	<0.1	275	2	0.16	0.09	0.10	42.05	16.4	99	3.2	20.56	1.9	0.9	0.6	4.09	16.00
106	NB072057	112	7.78	7.5	<0.1	299	2	0.15	0.08	0.20	36.31	14.9	140	2.8	25.98	1.6	0.9	0.6	4.84	15.61
107	NB072058	137	7.53	10.5	<0.1	379	2	0.18	0.06	0.09	19.82	17.4	148	5.3	23.49	1.5	1.0	0.3	4.58	20.55
108	NB072059	170	6.97	8.6	<0.1	299	2	0.12	0.10	0.14	45.63	15.0	100	3.3	21.58	2.0	1.0	0.7	3.88	14.52
109	NB072060	90	8.07	8.9	<0.1	306	2	0.12	0.06	0.07	64.26	15.7	126	4.4	20.15	2.3	1.2	0.7	4.30	16.93
110	NB072061	102	8.45	10.9	<0.1	485	3	0.30	0.43	0.11	57.85	14.4	85	2.9	38.21	3.4	1.7	0.9	5.08	20.39
111	NB072062	200	7.11	4.3	<0.1	499	1	0.18	1.43	0.05	63.90	12.9	51	3.4	13.64	4.4	2.0	1.3	3.05	15.19
112	NB072063	193	7.27	14.5	<0.1	414	3	0.34	0.48	0.18	63.96	8.1	54	3.7	13.99	3.2	1.7	0.8	3.25	18.01
113	NB072064	210	6.18	8.8	<0.1	256	1	0.23	0.16	0.15	45.46	17.3	50	3.8	14.96	2.2	1.2	0.7	3.24	13.97
114	NB072065	153	5.00	5.9	<0.1	234	1	0.19	0.13	0.09	42.61	8.2	37	2.6	7.11	2.2	1.0	0.6	2.41	10.89
115	NB072066	202	6.71	11.0	<0.1	277	4	1.03	0.27	0.11	43.69	21.9	60	5.9	15.74	2.6	1.3	0.7	3.38	16.37
116	NS071001	222	5.81	10.9	<0.1	311	2	0.22	0.06	0.34	58.76	12.6	43	5.0	23.26	3.0	1.7	0.9	2.93	13.76
117	NS071002	219	6.68	11.2	<0.1	376	2	0.37	0.04	0.15	60.37	16.5	61	5.8	21.31	2.5	1.5	0.8	3.97	17.05
118	NS071003	210	5.20	12.8	<0.1	238	1	0.20	0.06	0.19	53.46	14.0	41	4.2	21.82	2.4	1.3	0.7	3.10	13.09
119	NS071004	238	6.70	11.4	<0.1	374	2	0.17	0.11	0.10	64.10	13.0	43	5.0	16.76	3.0	1.5	1.2	3.23	15.93
120	NS071005	227	7.29	14.4	<0.1	529	2	0.29	0.34	0.14	62.16	15.6	57	5.7	27.71	3.6	1.8	1.0	3.59	17.71
121	NS071006	214	5.90	7.9	<0.1	404	2	0.18	0.42	0.16	59.23	12.5	36	4.6	19.01	3.2	1.5	1.0	2.75	14.04
122	NS071007	206	9.34	11.1	<0.1	573	3	0.24	0.05	0.09	79.90	22.7	70	9.4	33.44	2.7	1.0	1.2	4.26	24.82
123	NS071008																			
124	NS071009	83	6.29	4.9	<0.1	120	3	0.88	0.21	0.03	15.88	1.0	4	7.3	3.94	0.8	0.3	0.2	0.75	13.66
125	NS071010	122	6.58	9.2	<0.1	375	2	0.23	0.25	0.09	62.88	12.6	51	5.0	24.23	2.3	1.2	0.8	3.26	15.52
126	NS071011	198	5.77	4.9	<0.1	324	1	0.18	0.36	0.10	57.62	11.0	46	3.4	18.86	2.6	1.2	0.7	2.64	13.15
127	NS071012	209	7.13	3.6	<0.1	461	2	0.20	0.91	0.09	61.47	7.6	26	5.9	10.58	2.6	1.3	0.7	1.72	13.11
128	NS071013	220	7.72	10.3	<0.1	327	2	0.25	0.05	0.13	60.52	15.2	62	5.9	14.06	3.1	1.9	0.9	3.96	18.15
129	NS071014	171	5.70	8.2	<0.1	255	2	0.16	0.12	0.13	55.23	11.3	38	3.7	12.57	2.4	1.2	0.6	2.57	12.17
130	NS071015	251	5.89	7.3	<0.1	449	1	0.20	0.20	0.13	49.60	7.1	24	7.4	10.60	2.0	0.9	0.6	1.81	12.40
131	NS071016	94	9.72	14.7	<0.1	344	3	0.28	0.09	0.08	69.00	22.6	85	6.7	35.78	3.4	1.7	1.0	5.39	23.48
132	NS071017	166	7.59	12.1	<0.1	512	3	0.21	0.17	0.16	60.54	21.0	61	6.3	29.53	2.3	1.2	1.0	3.84	18.29

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
89	NB072039	2.8	3.47	0.4	1.78	31.2	56.9	0.2	1.15	275	0.25	1.221	8.21	28.2	74.1	0.055	13.09	7.6	80.2	<0.04
90	NB072040	2.8	3.08	0.3	1.49	22.9	51.9	0.2	0.97	372	0.40	1.066	8.63	22.9	54.8	0.084	10.66	5.9	70.0	<0.04
91	NB072041	3.0	3.96	0.6	2.53	27.3	29.7	0.3	0.89	328	0.26	1.197	11.72	26.5	42.8	0.123	12.63	6.4	124.9	<0.04
92	NB072042	4.7	3.82	0.6	1.55	31.7	45.5	0.3	1.05	374	0.40	1.255	8.05	33.8	56.1	0.043	16.46	8.4	81.3	<0.04
93	NB072043	2.7	3.08	0.5	1.79	27.9	54.7	0.2	1.15	389	0.75	1.177	9.14	24.1	46.6	0.032	13.29	6.9	85.4	<0.04
94	NB072044	2.2	2.47	0.4	1.44	19.1	30.1	0.2	0.43	263	0.17	1.195	7.86	18.0	17.3	0.040	8.41	4.6	62.7	<0.04
95	NB072045	3.1	2.45	0.4	1.44	24.1	27.5	0.2	0.44	304	0.23	1.267	8.57	22.8	16.0	0.021	8.01	5.6	69.9	<0.04
96	NB072046	3.9	3.36	0.6	1.35	27.9	39.2	0.3	0.70	519	0.43	1.102	11.47	28.0	24.2	0.028	20.91	6.6	61.2	<0.04
97	NB072047	2.8	2.99	0.5	1.46	23.4	35.0	0.3	0.55	315	0.41	0.998	11.29	21.2	20.0	0.016	14.37	5.7	76.2	<0.04
98	NB072048	2.8	3.19	0.5	1.80	23.7	35.0	0.3	0.58	429	0.38	1.261	10.88	21.4	22.4	0.022	19.41	5.3	79.9	<0.04
99	NB072050	3.2	3.19	0.5	1.87	23.5	44.0	0.2	0.75	327	0.32	0.865	11.78	24.1	26.1	0.029	15.36	5.6	86.7	<0.04
100	NB072051	2.9	3.30	0.5	1.86	28.3	49.6	0.2	0.75	414	0.62	0.775	12.80	25.3	31.0	0.074	18.45	6.6	95.0	<0.04
101	NB072052	2.6	3.46	0.6	1.67	28.7	45.2	0.3	0.73	665	0.81	0.790	12.02	24.7	29.2	0.030	22.14	6.8	87.8	<0.04
102	NB072053	3.3	3.70	0.6	1.49	18.9	21.2	0.3	1.03	548	0.45	1.127	9.57	19.4	41.3	0.062	13.39	4.6	54.8	<0.04
103	NB072054	4.1	3.41	0.5	1.53	30.4	42.0	0.2	1.07	469	0.27	1.417	10.29	31.3	48.4	0.044	11.31	8.0	66.1	<0.04
104	NB072055	2.2	3.72	0.4	1.62	14.9	61.8	0.2	0.94	303	0.33	0.895	8.74	19.7	76.0	0.054	13.94	4.4	63.4	<0.04
105	NB072056	2.2	2.76	0.3	1.86	17.4	59.4	0.2	1.53	416	0.29	1.019	8.00	19.5	76.1	0.038	11.23	4.6	68.3	<0.04
106	NB072057	1.9	2.85	0.3	1.40	20.3	65.6	0.2	1.68	518	0.73	0.925	7.34	17.4	87.8	0.090	14.53	4.7	66.2	<0.04
107	NB072058	1.6	3.20	0.3	2.25	7.5	62.2	0.2	1.51	456	0.30	0.826	12.01	10.8	82.2	0.041	17.79	2.4	60.3	<0.04
108	NB072059	2.5	3.31	0.4	1.58	20.4	56.3	0.2	1.00	339	0.33	1.038	7.79	22.1	67.9	0.073	12.20	5.2	67.2	<0.04
109	NB072060	3.0	4.18	0.4	1.72	31.2	49.8	0.2	0.91	277	0.38	1.095	11.07	32.9	69.2	0.050	11.39	7.4	84.5	<0.04
110	NB072061	3.8	2.51	0.7	2.29	25.7	18.7	0.3	1.12	642	1.25	0.906	16.72	23.7	38.5	0.063	15.65	6.4	100.8	<0.04
111	NB072062	4.5	2.72	0.7	1.92	30.9	19.1	0.3	1.02	558	0.42	1.736	12.44	31.2	24.7	0.057	13.27	7.2	79.0	<0.04
112	NB072063	3.7	4.25	0.6	2.75	21.7	21.4	0.3	0.71	389	0.67	1.504	16.68	23.0	24.3	0.052	20.61	5.8	112.5	<0.04
113	NB072064	2.7	3.11	0.4	1.55	20.8	36.8	0.2	0.60	547	0.48	0.707	11.51	21.0	27.3	0.023	14.84	5.2	76.0	<0.04
114	NB072065	2.5	2.56	0.4	1.51	19.2	38.0	0.2	0.47	366	0.28	0.829	8.15	19.4	18.5	0.033	11.09	4.9	66.9	<0.04
115	NB072066	3.0	3.25	0.5	1.99	18.7	57.4	0.2	0.77	967	1.13	1.083	12.62	20.2	28.8	0.045	18.01	5.0	109.0	<0.04
116	NS071001	3.5	3.60	0.5	2.29	29.1	49.0	0.3	0.59	551	0.44	0.901	12.33	27.0	24.9	0.036	24.28	7.2	92.8	<0.04
117	NS071002	3.2	3.61	0.7	2.16	29.6	67.9	0.3	0.51	350	0.84	0.441	11.01	27.9	38.7	0.033	16.80	7.4	94.7	<0.04
118	NS071003	3.2	3.08	0.5	1.43	24.7	50.8	0.2	0.46	830	0.63	0.437	10.73	23.4	27.3	0.017	24.16	5.8	68.9	<0.04
119	NS071004	4.1	3.36	0.6	1.88	32.5	60.5	0.2	0.63	620	0.31	0.978	9.90	33.7	27.1	0.021	16.99	8.1	92.5	<0.04
120	NS071005	4.4	3.43	0.7	2.84	31.0	74.3	0.3	0.95	1298	1.64	0.644	11.65	29.5	33.4	0.051	26.85	8.0	104.0	<0.04
121	NS071006	4.6	2.91	0.6	1.96	29.0	43.7	0.3	0.69	787	0.35	0.836	11.30	29.2	24.7	0.043	17.15	7.2	80.1	<0.04
122	NS071007	5.1	3.08	0.4	2.99	35.9	90.3	0.2	0.72	2667	0.68	0.492	12.86	39.1	45.1	0.045	13.49	9.7	136.9	<0.04
123	NS071008																			
124	NS071009	0.9	1.18	0.1	2.42	7.0	52.0	<0.1	0.07	228	0.17	1.739	4.87	7.8	1.0	0.114	16.74	1.9	174.6	<0.04
125	NS071010	3.1	3.09	0.5	1.88	30.1	60.0	0.3	0.70	631	0.50	0.615	11.63	28.1	27.4	0.023	21.44	7.3	95.5	<0.04
126	NS071011	3.0	3.74	0.5	1.59	23.0	35.5	0.2	0.71	546	0.44	1.135	10.77	23.0	23.7	0.041	14.93	5.7	58.3	<0.04
127	NS071012	3.4	2.15	0.5	2.61	24.8	30.2	0.2	0.61	676	0.70	2.045	7.95	24.4	13.6	0.039	26.07	5.7	85.8	<0.04
128	NS071013	3.5	3.94	0.7	2.66	28.6	57.4	0.3	0.82	243	0.59	0.834	12.85	29.3	34.1	0.033	9.46	7.0	107.6	<0.04
129	NS071014	2.4	3.12	0.4	1.34	20.3	48.7	0.2	0.48	705	0.47	1.032	9.37	20.1	20.8	0.024	18.64	4.9	59.8	<0.04
130	NS071015	2.7	2.35	0.4	2.74	22.5	75.0	0.2	0.37	501	0.40	1.774	7.00	21.9	15.4	0.021	26.87	5.5	108.2	<0.04
131	NS071016	4.3	2.83	0.7	2.05	29.6	80.2	0.3	0.83	651	1.07	0.686	12.12	32.8	44.0	0.059	25.68	7.6	99.5	<0.04
132	NS071017	3.7	3.41	0.5	2.31	29.1	71.4	0.2	0.46	815	0.69	0.793	11.41	29.9	35.8	0.044	11.96	7.4	100.4	<0.04

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
89	NB072039	0.39	9.7	4.3	1.4	46	0.5	0.4	9.3	0.352	0.2	2.2	86	0.6	11.3	1.3	85.5	120.8
90	NB072040	0.39	9.2	3.7	1.5	43	0.4	0.3	6.2	0.326	0.2	1.6	82	0.7	9.2	1.4	72.1	108.1
91	NB072041	0.52	11.8	3.8	2.2	63	0.6	0.5	8.5	0.432	0.3	2.4	134	1.0	14.3	1.8	61.0	144.7
92	NB072042	0.38	10.5	5.7	1.6	65	0.4	0.6	8.1	0.318	0.3	1.9	85	0.5	15.7	2.2	77.3	100.2
93	NB072043	0.40	8.4	4.0	1.6	71	0.4	0.4	7.8	0.367	0.2	2.2	84	0.7	12.5	1.5	76.3	111.8
94	NB072044	0.40	5.1	2.7	1.3	41	0.5	0.4	6.0	0.265	0.2	1.4	55	0.6	10.0	1.1	88.2	84.5
95	NB072045	0.32	5.5	4.0	1.3	60	0.5	0.4	6.4	0.298	0.2	1.3	47	0.7	11.4	1.4	38.4	86.6
96	NB072046	0.59	8.6	4.2	2.1	51	0.6	0.5	8.9	0.382	0.3	2.3	70	1.0	14.6	1.9	52.0	116.4
97	NB072047	0.49	6.5	3.4	1.5	51	0.6	0.4	7.8	0.423	0.2	2.1	57	0.8	14.2	1.6	47.6	107.5
98	NB072048	0.65	6.7	3.3	1.6	53	0.7	0.4	8.2	0.339	0.2	1.9	69	0.9	11.9	1.5	54.0	111.7
99	NB072050	0.56	8.1	3.6	1.8	44	0.6	0.4	6.6	0.431	0.2	1.7	76	1.0	12.2	1.6	66.6	107.5
100	NB072051	0.59	9.1	4.2	2.2	51	0.7	0.5	7.6	0.458	0.2	1.8	83	1.1	13.3	1.8	102.0	114.4
101	NB072052	0.66	7.7	4.0	1.9	47	0.7	0.4	9.1	0.432	0.2	2.3	72	1.0	14.5	1.6	69.6	120.6
102	NB072053	0.45	8.8	3.2	1.8	75	0.5	0.4	6.9	0.467	0.3	1.8	82	1.0	13.6	1.8	105.5	123.8
103	NB072054	0.37	9.0	5.3	1.3	67	0.5	0.5	7.8	0.349	0.2	1.6	72	0.7	12.0	1.7	58.9	118.8
104	NB072055	0.57	9.0	3.4	1.4	37	0.5	0.3	5.7	0.339	0.2	1.8	90	0.8	7.8	1.3	93.7	129.0
105	NB072056	0.32	9.4	2.9	1.3	52	0.4	0.3	6.0	0.299	0.2	1.5	88	0.5	8.2	1.3	85.9	92.4
106	NB072057	0.60	10.3	2.7	1.4	58	0.4	0.3	6.4	0.325	0.2	2.0	88	0.6	8.7	1.2	110.7	101.8
107	NB072058	0.46	10.5	2.0	2.0	53	0.6	0.3	3.4	0.466	0.2	1.7	117	0.9	5.1	1.2	82.2	105.2
108	NB072059	0.39	9.3	3.5	1.4	44	0.4	0.4	6.6	0.278	0.2	1.7	76	0.5	9.9	1.5	106.9	117.5
109	NB072060	0.69	10.3	4.9	1.6	53	0.6	0.4	8.7	0.474	0.2	2.0	111	0.9	11.0	1.8	87.4	124.7
110	NB072061	0.43	14.2	4.5	3.2	97	1.0	0.6	12.0	0.652	0.3	3.2	116	2.1	16.6	1.8	105.7	82.1
111	NB072062	0.29	12.0	5.6	2.1	159	0.7	0.6	8.8	0.466	0.3	2.0	77	1.4	19.8	1.8	45.0	87.9
112	NB072063	0.54	9.4	4.1	3.6	83	1.1	0.5	11.5	0.469	0.3	3.0	72	2.7	14.1	2.0	78.9	141.6
113	NB072064	0.58	7.7	3.4	1.8	44	0.6	0.4	7.9	0.336	0.2	1.9	66	1.2	11.4	1.7	56.9	108.4
114	NB072065	0.34	5.8	3.2	1.8	39	0.5	0.4	6.5	0.237	0.2	1.6	52	0.8	9.8	1.4	45.1	86.0
115	NB072066	0.56	8.1	3.5	4.6	56	1.2	0.4	12.1	0.312	0.2	3.8	67	2.2	11.9	1.5	65.5	104.7
116	NS071001	0.76	9.1	4.6	2.0	61	0.7	0.5	8.7	0.374	0.3	2.1	80	1.0	14.8	1.9	82.7	127.1
117	NS071002	0.90	10.5	4.4	2.2	55	0.6	0.5	9.8	0.325	0.3	2.8	92	1.0	13.4	2.0	66.1	123.6
118	NS071003	0.78	7.5	4.0	1.7	56	0.6	0.4	6.9	0.326	0.2	1.9	62	0.9	12.1	1.7	84.6	106.5
119	NS071004	0.73	9.7	5.6	2.1	90	0.6	0.5	7.6	0.350	0.2	1.7	67	1.0	15.7	1.8	69.0	113.7
120	NS071005	0.82	10.8	5.1	2.5	109	0.7	0.6	9.4	0.361	0.3	2.7	97	1.3	16.4	2.1	69.3	117.6
121	NS071006	0.57	8.5	5.3	1.8	87	0.6	0.6	7.1	0.376	0.3	1.6	66	1.1	16.0	2.0	60.2	95.9
122	NS071007	0.68	12.7	6.9	3.3	171	0.7	0.5	10.6	0.377	0.2	2.5	89	1.8	9.9	1.5	75.4	101.8
123	NS071008																	
124	NS071009	0.08	1.6	1.5	6.4	32	0.8	0.2	4.3	0.075	<0.1	4.4	8	2.3	4.1	0.4	25.4	31.5
125	NS071010	0.62	9.4	4.5	2.0	95	0.6	0.5	9.6	0.428	0.2	2.3	72	0.9	13.2	1.4	72.3	107.0
126	NS071011	0.35	7.0	3.9	1.5	98	0.6	0.4	8.8	0.388	0.2	2.6	62	1.0	11.6	1.7	44.2	124.0
127	NS071012	0.13	5.3	4.3	1.5	208	0.7	0.5	11.0	0.231	0.2	2.9	41	0.6	12.3	1.5	43.4	67.8
128	NS071013	0.68	11.2	4.3	2.5	133	0.8	0.6	10.7	0.402	0.3	2.8	108	1.3	15.5	2.1	217.9	136.4
129	NS071014	0.46	6.0	3.3	1.4	84	0.5	0.4	7.9	0.279	0.2	2.2	53	0.9	11.3	1.6	61.5	106.3
130	NS071015	0.31	5.5	3.1	1.4	114	0.5	0.4	9.8	0.204	0.2	2.1	49	0.8	9.8	1.1	85.6	76.2
131	NS071016	0.77	14.4	5.5	2.6	140	0.6	0.6	10.0	0.408	0.3	2.6	102	1.2	15.7	2.1	93.8	103.2
132	NS071017	0.80	11.1	5.2	2.2	105	0.6	0.4	9.4	0.345	0.2	2.6	106	1.1	11.9	1.6	65.6	121.6

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable Unit Min. Detection Limit Sample Preparation Dissolution Instrumentation		Ag ppb 20 milled 4-acid ICP-MS&ES	Al % 0.02 milled 4-acid ICP-MS&ES	As ppm 0.2 milled 4-acid ICP-MS&ES	Au ppm 0.1 milled 4-acid ICP-MS&ES	Ba ppm 1 milled 4-acid ICP-MS&ES	Be ppm 1 milled 4-acid ICP-MS&ES	Bi ppm 0.04 milled 4-acid ICP-MS&ES	Ca % 0.02 milled 4-acid ICP-MS&ES	Cd ppm 0.02 milled 4-acid ICP-MS&ES	Ce ppm 0.02 milled 4-acid ICP-MS&ES	Co ppm 0.2 milled 4-acid ICP-MS&ES	Cr ppm 1 milled 4-acid ICP-MS&ES	Cs ppm 0.1 milled 4-acid ICP-MS&ES	Cu ppm 0.02 milled 4-acid ICP-MS&ES	Dy ppm 0.1 milled 4-acid ICP-MS&ES	Er ppm 0.1 milled 4-acid ICP-MS&ES	Eu ppm 0.1 milled 4-acid ICP-MS&ES	Fe % 0.02 milled 4-acid ICP-MS&ES	Ga ppm 0.02 milled 4-acid ICP-MS&ES
133	NS071019	94	6.28	25.8	<0.1	331	2	0.19	0.31	<0.02	32.29	4.3	37	3.8	9.13	1.4	0.5	0.4	1.25	11.92
134	NS071020	90	4.94	2.6	<0.1	321	2	0.15	0.45	0.05	34.22	2.2	7	3.3	3.37	1.2	0.5	0.4	0.62	9.90
135	NS071021	106	4.60	5.2	<0.1	307	2	0.17	0.31	0.21	46.07	6.5	16	4.3	12.26	2.3	0.8	0.5	1.69	10.51
136	NS071022	145	5.32	15.3	<0.1	340	2	0.88	0.20	0.12	34.27	4.0	24	6.7	12.65	1.5	0.7	0.5	1.77	15.28
137	NS071023	224	5.55	7.5	<0.1	350	1	0.21	0.37	0.06	40.55	10.3	31	3.0	13.36	2.5	1.5	0.7	2.22	11.20
138	NS071024	212	10.07	14.4	<0.1	540	3	0.35	0.05	0.09	40.06	15.9	82	8.9	27.01	2.2	2.5	0.7	4.23	23.21
139	NS071025	119	4.34	10.5	<0.1	217	<1	0.13	0.19	0.11	36.57	9.6	31	2.5	11.41	1.7	1.1	0.6	2.25	9.16
140	NS071026																			
141	NS071027	566	6.34	15.2	<0.1	342	1	1.40	0.27	0.37	45.49	11.8	46	6.4	77.82	2.5	1.6	0.9	4.04	14.96
142	NS071028	159	6.03	5.3	<0.1	300	1	0.17	0.53	0.11	41.91	10.2	39	2.9	18.36	2.4	1.4	0.7	2.89	12.51
143	NS071029	256	8.20	15.5	<0.1	431	2	0.30	0.15	0.16	53.22	27.2	74	4.2	33.43	2.9	1.5	0.7	4.55	18.72
144	NS071030	108	6.47	2.4	<0.1	419	1	0.15	0.84	0.14	47.15	7.0	20	5.9	9.69	2.2	1.6	0.7	2.73	12.97
145	NS071031	347	8.10	12.4	<0.1	522	3	0.30	0.27	0.22	74.03	16.0	65	6.3	288.15	5.2	2.9	1.8	3.85	19.02
146	NS071032	271	6.42	32.8	<0.1	418	2	0.17	0.15	0.06	63.14	3.9	42	3.6	16.33	2.0	0.8	0.9	3.81	15.55
147	NS071033	113	6.95	8.2	<0.1	425	3	0.20	0.55	0.10	69.23	17.2	48	6.7	20.33	2.8	1.2	1.0	3.61	17.66
148	NS071034	144	7.13	8.9	<0.1	388	2	0.21	0.17	0.12	69.71	16.4	57	5.5	24.56	4.0	2.1	1.1	3.68	17.22
149	NS071036	296	9.32	18.3	<0.1	446	3	0.35	0.08	0.14	65.22	14.3	76	5.1	17.69	2.5	1.3	1.0	5.80	24.58
150	NS071037	122	7.27	9.5	<0.1	309	1	0.17	0.11	0.17	37.73	32.1	128	7.4	11.95	2.9	1.7	0.8	7.38	16.44
151	NS071038	306	5.55	6.9	<0.1	264	1	0.12	0.17	0.08	52.05	14.4	44	3.9	22.51	3.1	1.8	0.7	2.88	13.11
152	NS071039	274	6.97	11.6	<0.1	307	2	0.22	0.11	0.18	54.36	14.7	58	4.5	17.33	2.5	1.3	0.6	3.80	16.93
153	NS071040	366	8.54	13.6	<0.1	477	3	0.22	0.08	0.14	79.01	20.8	68	6.3	27.95	2.9	1.6	1.4	4.54	21.52
154	NS071041	179	4.72	21.2	<0.1	319	2	0.27	0.08	0.06	51.69	4.9	30	5.1	14.27	1.7	0.6	0.9	4.01	11.84
155	NS071042	242	5.83	12.4	<0.1	346	2	0.12	0.29	0.09	47.12	15.8	38	2.7	25.52	2.5	1.3	0.9	3.08	11.78
156	NS071043	97	7.32	16.3	<0.1	414	2	0.20	0.35	0.08	55.63	5.4	46	3.9	16.47	1.7	0.6	0.8	3.15	14.52
157	NS071044	160	6.83	12.5	<0.1	384	1	0.17	0.32	0.07	35.15	9.0	48	4.6	17.77	2.3	1.3	0.5	3.45	16.22
158	NS071045	63	6.11	7.1	<0.1	279	2	0.22	0.56	0.06	39.96	10.0	43	4.4	26.18	2.1	1.2	0.7	2.89	14.75
159	NS071046	55	5.50	1.6	<0.1	230	1	0.07	1.01	0.07	49.86	4.4	18	1.6	5.21	1.8	0.8	0.8	1.36	10.00
160	NS071047	77	5.53	4.9	<0.1	285	2	0.11	0.89	0.02	30.55	9.0	43	1.4	20.78	2.5	1.6	0.8	2.43	10.81
161	NS071048	130	5.22	228.3	<0.1	540	<1	0.19	0.60	0.10	38.00	8.7	52	1.8	22.74	2.3	1.3	0.7	3.02	11.10
162	NS071049	423	7.84	24.4	<0.1	356	1	0.20	0.49	0.13	32.20	16.9	100	4.3	43.48	2.8	1.6	0.7	4.46	18.00
163	NS071050	99	6.29	8.0	<0.1	422	2	0.17	0.34	0.14	55.66	11.1	52	3.6	17.68	2.5	1.4	0.9	2.95	14.48
164	NS071052	209	9.53	41.0	<0.1	530	3	0.32	0.08	0.06	40.89	7.0	105	9.3	55.05	3.0	1.3	1.0	6.85	23.17
165	NS071053	151	6.36	10.5	<0.1	397	2	0.22	0.20	0.07	51.38	13.2	39	4.8	18.58	2.1	1.0	0.7	2.94	15.77
166	NS071054	205	9.46	15.1	<0.1	467	3	0.27	0.28	0.13	66.61	17.7	63	6.8	33.33	4.0	1.7	1.0	3.94	19.62
167	NS071055	54	6.47	8.4	<0.1	396	2	0.17	0.50	0.08	32.10	4.9	17	4.2	4.45	1.9	0.8	0.6	1.69	12.40
168	NS071056	262	6.06	6.8	<0.1	278	1	0.14	0.47	0.13	44.97	15.8	51	4.6	36.37	3.2	1.6	0.9	3.33	15.36
169	NS071057	203	6.00	12.3	<0.1	452	1	0.21	0.20	0.19	61.64	14.0	51	4.5	36.38	3.3	1.6	1.0	3.37	13.77
170	PE071001	114	4.84	7.2	<0.1	284	1	0.13	0.04	0.06	71.26	9.0	31	3.0	12.08	1.7	0.9	0.9	2.30	10.65
171	PE071002	127	4.88	7.2	<0.1	253	1	0.12	0.02	0.06	69.33	8.4	28	3.0	9.84	1.8	0.8	0.8	2.27	10.52
172	PE071003	109	5.19	8.1	<0.1	351	1	0.12	0.03	0.09	59.47	9.4	29	3.4	10.91	1.6	0.8	0.8	2.28	11.19
173	PE071004	154	5.05	7.6	<0.1	295	1	0.11	0.03	0.05	65.62	8.8	25	3.3	11.09	1.5	0.7	0.8	2.24	10.96
174	PE071005	132	5.17	8.2	<0.1	296	1	0.12	0.04	0.07	63.21	9.5	30	3.4	11.94	1.7	0.7	0.8	2.38	11.82
175	PE071006	128	6.37	8.8	<0.1	392	2	0.17	0.28	0.14	56.10	14.2	43	4.8	19.20	3.8	1.8	1.1	3.21	16.16
176	PE071007	198	6.30	7.8	<0.1	394	2	0.14	0.13	0.18	50.21	12.9	40	4.4	16.63	2.8	1.3	0.8	2.97	14.61

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
133	NS071019	1.8	1.62	0.2	2.29	11.4	33.0	<0.1	0.25	331	0.26	1.839	5.02	13.1	9.7	0.044	25.83	2.9	109.2	<0.04
134	NS071020	1.8	1.60	0.2	2.60	16.0	31.4	<0.1	0.13	188	0.13	1.957	3.90	17.1	3.5	0.058	16.09	4.0	97.4	<0.04
135	NS071021	3.5	1.97	0.3	1.83	20.2	56.2	0.1	0.34	812	0.33	0.861	7.39	22.8	12.2	0.050	18.98	5.3	73.8	<0.04
136	NS071022	2.3	2.27	0.2	2.26	17.6	68.7	0.1	0.29	616	0.91	1.302	8.69	15.5	8.7	0.067	16.11	4.3	125.3	<0.04
137	NS071023	2.6	2.52	0.4	1.90	18.7	37.4	0.2	0.68	463	0.45	1.095	8.17	17.5	19.0	0.025	13.04	4.4	75.7	<0.04
138	NS071024	2.6	3.36	0.4	3.33	17.8	84.0	0.3	0.76	618	0.85	0.530	10.82	20.7	35.0	0.028	32.99	4.8	126.8	<0.04
139	NS071025	2.1	2.79	0.4	1.22	17.8	32.8	0.2	0.58	438	0.43	0.685	7.35	15.6	15.8	0.014	18.06	4.1	57.7	<0.04
140	NS071026																			
141	NS071027	3.2	3.14	0.6	2.09	19.9	50.9	0.3	0.86	858	0.61	0.723	9.95	21.0	20.0	0.048	89.31	4.8	75.2	<0.04
142	NS071028	2.8	3.05	0.5	1.55	20.2	24.4	0.3	0.87	474	0.45	1.287	8.96	19.8	18.9	0.032	12.85	5.0	68.2	<0.04
143	NS071029	3.2	3.73	0.6	2.18	21.2	58.9	0.3	1.21	1171	1.33	0.747	12.76	24.3	53.8	0.052	13.20	5.9	92.2	<0.04
144	NS071030	2.7	2.57	0.6	1.72	18.4	32.7	0.3	0.61	458	1.13	1.605	7.16	16.2	8.0	0.036	14.15	4.4	100.4	<0.04
145	NS071031	7.1	3.52	1.0	2.71	39.8	67.0	0.3	0.95	815	0.80	0.757	11.12	41.8	39.0	0.041	25.72	10.3	117.8	<0.04
146	NS071032	3.2	2.83	0.3	1.72	32.1	52.8	0.2	0.53	1108	2.23	1.097	8.86	27.5	10.3	0.051	19.37	7.0	75.2	<0.04
147	NS071033	3.9	2.74	0.5	1.93	28.1	75.4	0.2	0.88	1822	0.82	1.157	11.59	30.9	31.8	0.035	22.81	7.5	81.2	<0.04
148	NS071034	5.0	3.69	0.7	1.74	30.5	59.0	0.3	0.95	835	0.89	0.935	13.72	33.8	34.5	0.035	19.30	7.9	68.3	<0.04
149	NS071036	3.6	3.17	0.4	1.50	29.5	75.4	0.2	0.67	973	0.74	0.755	9.15	32.7	27.2	0.072	13.34	7.7	80.6	<0.04
150	NS071037	2.7	3.24	0.7	1.04	16.8	262.9	0.3	2.42	2050	0.66	1.312	10.03	15.9	79.6	0.118	12.39	4.3	48.2	<0.04
151	NS071038	2.8	3.82	0.6	1.82	26.9	41.4	0.3	0.79	565	0.27	0.763	12.33	22.8	26.9	0.033	56.20	5.9	88.3	<0.04
152	NS071039	2.8	3.49	0.5	1.98	26.2	70.0	0.2	0.74	701	0.94	0.854	13.68	25.7	31.3	0.047	16.82	6.2	90.7	<0.04
153	NS071040	4.3	4.15	0.5	2.54	40.9	75.6	0.3	1.11	921	0.66	0.898	10.95	42.3	49.0	0.033	17.96	9.8	128.5	<0.04
154	NS071041	2.9	1.51	0.2	1.59	26.8	32.8	0.1	0.26	615	1.87	0.648	4.44	28.2	9.6	0.063	50.85	6.8	81.0	<0.04
155	NS071042	3.3	3.01	0.4	1.50	22.7	38.0	0.2	0.52	1151	0.56	1.211	9.94	20.8	23.5	0.034	29.49	5.5	67.2	<0.04
156	NS071043	2.8	1.98	0.3	2.45	25.3	57.7	0.1	0.46	428	2.14	1.287	6.02	21.7	14.4	0.048	21.20	6.1	100.8	<0.04
157	NS071044	1.9	2.10	0.5	1.76	11.1	50.3	0.2	0.54	3166	0.57	1.187	13.11	12.6	20.9	0.041	15.02	3.0	82.5	<0.04
158	NS071045	2.9	1.47	0.4	2.00	16.6	51.0	0.2	0.68	674	0.22	1.423	9.02	19.0	25.5	0.042	14.56	4.3	79.9	<0.04
159	NS071046	2.4	1.40	0.3	0.87	23.7	19.1	0.1	0.36	440	0.18	1.803	7.14	21.5	8.8	0.041	13.54	6.0	34.6	<0.04
160	NS071047	3.0	1.35	0.5	1.13	15.5	24.1	0.2	0.69	777	0.22	1.649	10.31	16.3	22.7	0.042	10.63	4.0	43.1	<0.04
161	NS071048	2.4	1.53	0.5	1.65	17.9	27.3	0.2	0.80	755	0.40	1.405	9.41	15.9	19.5	0.050	11.92	4.0	51.4	<0.04
162	NS071049	3.5	2.52	0.6	1.76	18.5	50.7	0.2	1.35	794	0.72	1.293	11.80	19.6	53.1	0.068	15.44	4.5	71.5	<0.04
163	NS071050	2.8	2.60	0.5	2.10	26.4	53.5	0.2	0.69	491	0.46	0.936	12.49	24.0	27.7	0.030	18.56	6.4	96.9	<0.04
164	NS071052	4.1	2.83	0.5	2.47	14.2	97.5	0.2	0.58	672	7.15	0.915	8.35	24.7	28.5	0.062	26.64	5.3	98.6	<0.04
165	NS071053	3.0	2.69	0.4	1.99	21.6	54.1	0.2	0.63	920	0.45	0.965	10.55	22.3	23.4	0.031	17.28	5.4	90.9	<0.04
166	NS071054	5.1	2.78	0.7	2.39	28.0	85.5	0.2	0.74	2323	0.60	1.200	11.22	32.0	40.9	0.028	20.29	7.6	104.9	<0.04
167	NS071055	2.4	0.88	0.3	1.78	12.3	46.3	0.1	0.30	346	0.31	1.570	4.93	14.6	8.0	0.072	22.59	3.4	57.6	<0.04
168	NS071056	3.9	3.01	0.6	1.79	23.0	57.0	0.3	0.80	779	0.54	0.882	10.50	24.5	25.5	0.066	10.63	5.8	75.2	<0.04
169	NS071057	4.3	3.39	0.6	1.59	30.4	52.6	0.3	0.54	929	0.87	0.527	11.27	30.9	27.2	0.025	24.40	7.6	75.8	<0.04
170	PE071001	2.7	2.57	0.3	2.61	34.8	38.3	0.2	0.48	749	0.23	0.447	9.11	32.0	17.3	0.029	10.46	8.3	76.3	<0.04
171	PE071002	3.2	2.39	0.3	1.43	31.5	38.3	0.1	0.45	650	0.26	0.425	8.44	30.1	18.0	0.020	8.57	7.5	38.2	<0.04
172	PE071003	3.1	2.23	0.3	3.44	29.7	41.5	0.1	0.45	792	0.26	0.349	8.84	26.6	19.0	0.021	10.52	7.0	78.5	<0.04
173	PE071004	2.8	2.00	0.3	2.85	31.5	36.4	0.1	0.45	784	0.26	0.162	8.51	29.7	19.1	0.019	8.96	7.8	74.5	<0.04
174	PE071005	2.7	2.23	0.3	2.99	30.7	40.3	0.1	0.50	726	0.35	0.313	9.43	30.1	19.4	0.021	8.92	7.4	77.7	<0.04
175	PE071006	4.4	2.93	0.6	2.44	24.7	51.1	0.3	0.88	743	0.20	1.169	11.75	31.0	31.0	0.051	18.38	6.9	92.1	<0.04
176	PE071007	2.9	2.85	0.5	2.83	22.9	46.9	0.3	0.85	543	0.21	1.358	10.93	22.9	25.1	0.039	18.57	5.9	95.9	<0.04

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
133	NS071019	0.12	3.1	2.4	2.0	81	0.5	0.2	4.8	0.151	<0.1	1.2	28	1.0	5.1	0.7	74.5	43.1
134	NS071020	0.15	1.8	2.8	1.7	83	0.4	0.3	6.5	0.118	<0.1	1.2	14	0.6	6.0	0.5	24.6	51.8
135	NS071021	0.37	5.0	4.1	1.9	62	0.5	0.4	6.7	0.242	0.1	2.2	36	1.4	8.7	0.9	49.2	62.4
136	NS071022	0.25	4.7	3.0	5.3	62	0.7	0.3	5.6	0.230	0.1	3.4	44	3.5	6.8	0.9	100.7	75.5
137	NS071023	0.47	6.4	3.3	1.2	106	0.5	0.3	6.1	0.303	0.1	1.6	51	0.7	11.9	1.5	38.0	93.8
138	NS071024	0.82	13.1	3.3	2.7	122	0.6	0.4	8.1	0.342	0.2	2.9	110	1.2	9.8	1.5	93.5	115.2
139	NS071025	0.48	5.2	2.5	1.1	62	0.4	0.3	6.6	0.299	0.2	1.7	52	0.7	10.3	1.3	77.2	96.5
140	NS071026																	
141	NS071027	1.58	12.0	3.4	2.3	45	0.5	0.5	8.3	0.421	0.3	1.9	100	1.6	15.2	1.8	312.8	113.6
142	NS071028	0.63	8.7	3.1	1.5	133	0.5	0.4	7.5	0.363	0.2	1.9	70	0.8	13.8	1.4	68.9	106.0
143	NS071029	0.70	10.6	4.1	2.0	71	0.7	0.4	7.5	0.469	0.3	2.2	90	1.0	12.3	1.9	84.5	126.2
144	NS071030	0.53	7.3	2.7	1.2	176	0.4	0.4	9.3	0.344	0.3	2.9	69	0.9	14.4	1.7	56.9	91.4
145	NS071031	0.78	12.5	7.6	2.5	118	0.6	0.8	9.5	0.381	0.4	2.3	82	1.0	26.6	2.5	81.6	120.7
146	NS071032	0.53	8.3	4.9	1.6	116	0.5	0.4	7.6	0.328	0.1	1.9	62	0.9	8.9	1.2	43.0	97.7
147	NS071033	0.36	9.5	5.4	2.5	106	0.7	0.5	8.6	0.433	0.2	2.4	71	1.6	11.9	1.4	78.2	90.9
148	NS071034	0.68	10.2	5.9	1.9	111	0.8	0.7	8.8	0.449	0.3	2.5	80	1.1	18.6	2.5	79.6	130.9
149	NS071036	0.75	12.7	5.7	2.4	90	0.5	0.4	9.4	0.269	0.2	2.5	96	0.7	10.5	1.6	170.8	120.6
150	NS071037	0.67	16.6	2.9	1.5	51	0.5	0.5	5.3	0.621	0.3	1.7	134	0.7	14.8	2.0	275.0	117.8
151	NS071038	0.52	8.8	3.4	1.5	57	0.6	0.4	7.6	0.447	0.2	1.8	68	0.8	15.0	1.8	106.2	138.8
152	NS071039	0.65	8.9	3.9	2.0	95	0.7	0.4	7.5	0.438	0.3	2.4	76	1.2	12.1	1.8	112.3	119.4
153	NS071040	0.56	13.1	6.3	2.6	73	0.7	0.4	10.9	0.366	0.2	2.4	98	0.8	13.8	2.2	108.5	152.3
154	NS071041	0.59	4.3	4.7	1.6	53	0.3	0.3	4.8	0.171	<0.1	2.0	43	0.7	6.7	0.7	43.6	53.1
155	NS071042	0.49	7.3	3.9	1.3	120	0.5	0.4	7.1	0.358	0.2	1.7	54	0.9	12.3	1.5	72.5	101.6
156	NS071043	0.37	5.9	3.8	1.6	97	0.4	0.4	7.8	0.228	0.1	2.0	51	0.7	7.9	0.8	43.8	65.1
157	NS071044	0.19	10.0	2.5	1.7	151	0.8	0.3	6.4	0.551	0.2	1.4	61	1.6	12.0	1.7	51.7	68.3
158	NS071045	0.04	7.8	3.3	2.1	109	0.6	0.3	5.8	0.349	0.2	1.4	52	1.0	9.7	1.3	49.7	47.3
159	NS071046	0.07	4.5	3.8	1.1	180	0.4	0.4	7.9	0.315	0.1	1.6	30	0.4	9.2	0.8	24.0	48.0
160	NS071047	0.21	7.9	2.8	1.3	161	0.6	0.5	5.1	0.640	0.2	1.1	55	0.8	16.1	1.6	38.3	46.3
161	NS071048	0.43	9.4	2.8	1.2	116	0.5	0.4	5.4	0.485	0.2	1.1	80	1.3	13.2	1.6	48.2	50.8
162	NS071049	0.35	12.8	3.8	1.9	108	0.6	0.5	5.6	0.540	0.2	1.5	99	1.2	15.1	1.8	117.7	82.0
163	NS071050	0.53	7.9	4.0	2.1	88	0.7	0.4	10.2	0.441	0.2	2.1	64	1.0	13.9	1.4	60.8	89.7
164	NS071052	1.24	12.9	4.8	2.4	121	0.5	0.5	9.8	0.268	0.2	3.3	96	1.1	10.3	1.6	67.5	90.3
165	NS071053	0.43	8.1	3.9	2.1	85	0.7	0.4	7.5	0.359	0.2	2.1	61	1.2	9.9	1.3	54.5	84.4
166	NS071054	0.52	10.6	5.8	2.4	115	0.7	0.6	8.5	0.415	0.3	2.2	72	1.5	15.1	1.9	68.9	85.2
167	NS071055	0.15	3.6	2.8	1.9	70	0.4	0.3	5.4	0.140	0.1	1.5	25	1.6	8.3	0.9	48.7	27.8
168	NS071056	0.35	10.1	4.2	1.8	81	0.6	0.5	5.5	0.447	0.3	1.7	125	1.0	17.2	2.0	58.1	100.7
169	NS071057	0.78	8.9	5.6	1.6	85	0.6	0.6	7.8	0.412	0.3	1.9	67	1.0	17.9	2.0	71.8	113.7
170	PE071001	0.51	5.4	4.7	1.4	70	0.5	0.4	8.3	0.417	0.2	1.6	42	0.7	9.4	1.1	39.2	87.3
171	PE071002	0.48	4.7	4.8	1.2	65	0.5	0.3	7.5	0.369	0.1	1.4	40	0.6	7.5	1.0	35.6	83.1
172	PE071003	0.61	5.7	4.3	1.5	58	0.5	0.4	6.9	0.371	0.1	1.5	52	0.8	7.4	0.9	41.1	76.5
173	PE071004	0.67	5.3	4.6	1.5	58	0.5	0.3	6.0	0.343	0.1	1.2	38	0.7	6.9	1.0	40.3	71.0
174	PE071005	0.61	5.3	4.5	1.4	64	0.5	0.3	6.1	0.383	0.1	1.2	42	0.8	9.9	0.9	36.8	73.9
175	PE071006	0.63	9.0	5.7	2.1	70	0.6	0.6	7.1	0.444	0.3	1.8	72	1.0	17.7	2.1	60.6	105.6
176	PE071007	0.60	9.3	3.7	1.8	69	0.7	0.5	7.6	0.381	0.2	1.9	79	1.0	13.6	1.4	58.2	98.7

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Ag	Al	As	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga
Unit		ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Min. Detection Limit		20	0.02	0.2	0.1	1	1	0.04	0.02	0.02	0.02	0.2	1	0.1	0.02	0.1	0.1	0.1	0.02	0.02
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008	127	5.57	6.5	<0.1	325	2	0.11	0.09	0.08	53.25	9.7	34	3.4	10.61	2.1	1.0	0.7	2.54	12.19
178	PE071009	178	6.63	9.5	<0.1	347	2	0.17	0.10	0.16	40.86	16.9	42	4.5	19.78	2.0	1.1	0.6	3.28	14.93



C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Gd	Hf	Ho	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
Unit		ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
Min. Detection Limit		0.1	0.02	0.1	0.02	0.1	0.1	0.1	0.02	2	0.05	0.002	0.04	0.1	0.1	0.001	0.02	0.1	0.1	0.04
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008	2.9	2.75	0.4	1.87	23.7	35.6	0.2	0.81	468	0.18	1.071	8.84	22.6	21.7	0.025	10.72	5.6	59.6	<0.04
178	PE071009	2.4	3.04	0.4	2.54	19.8	57.3	0.2	0.93	980	0.21	1.221	11.78	17.1	30.8	0.048	17.91	4.6	92.8	<0.04

C-horizon  
<2 mm fraction  
4-acid dissolution

North American Geochemical Soil Landscapes Project  
Soil Geochemistry Data

Variable		Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Min. Detection Limit		0.02	0.1	0.1	0.1	1	0.1	0.1	0.1	0.001	0.1	0.1	1	0.1	0.1	0.1	0.2	0.2
Sample Preparation		milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled	milled
Dissolution		4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid
Instrumentation		ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES	ICP-MS&ES
177	PE071008	0.44	6.7	3.7	1.5	64	0.5	0.4	6.6	0.346	0.2	1.6	50	0.6	10.0	1.3	40.0	87.7
178	PE071009	0.62	9.2	2.9	1.9	71	0.7	0.3	7.4	0.396	0.2	1.9	89	1.0	9.7	1.4	70.4	108.6