

Supplementary Table 4.1: Continued.

Site Name	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th
Method Detection Limit ^a	0.1	0.002	0.1	0.1	1	100	0.1	0.1	0.0002	0.1
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
BC-37	80.3	0.092	38	11.9	896	16800	19	2.5	0.0037	2.7
BC-38	95	0.115	51.3	13.2	847	25100	81.1	3	0.0085	3.2
BC-39	60.2	0.081	27.2	10.7	1054	23200	26.2	1.8	0.0014	7.7
BC-40	80.2	0.073	25.4	6.8	365	13400	37	2	0.0076	1.9
BC-41	59.9	0.064	36	8.2	267	11400	22.3	2	0.0035	1.8
BC-42	84.5	0.08	25.3	7.5	265	13600	35.6	58.4	0.0076	2.8
BC-43	106.1	0.082	29.9	10.2	901	18700	115.7	2.6	0.0016	1.3
BC-45	87.1	0.119	40.7	14.6	431	33900	11.9	6	0.0027	18
BC-46	78.5	0.129	33.1	12.2	304	22400	180.2	3.1	0.0628	6.2
BC-47	76.7	0.111	27	10	244	21300	339.8	3.6	0.0363	5.6
BC-48	81.9	0.091	16.1	6.2	760	10200	46.9	95	0.0023	1
BC-49	31.6	0.036	12.6	4.1	2045	6400	27.4	7.1	0.0045	0.5
BC-50	35.8	0.035	15.1	4.2	454	6900	21.1	4.8	0.0036	0.8
BC-51	54.4	0.052	16.9	4.9	576	10300	27.5	1.7	0.0002	1.4
BC-52	59	0.067	25.8	7.9	280	15900	6.3	4	0.0006	6.1
BC-53	50.4	0.065	21	5.8	309	12900	27.9	2.4	0.0144	2.6
BC-54	49.2	0.055	14.5	3.6	161	8200	31.3	2.1	0.0063	1.5
BC-55	115.4	0.073	23.4	7	334	19100	44.1	2.4	0.003	2.7
BC-57	86.7	0.072	29.7	11.8	672	30400	71.5	1.7	0.0062	6.1
BC-58	69.1	0.075	34.6	10	386	17700	24.6	3.3	0.0061	4.2
BC-59	43.8	0.058	20.4	6.1	967	13400	32.4	4	0.0046	2.6
BC-60	26.9	0.025	14.4	4.7	142	9900	7	1.3	0.0038	4.4
BC-61	73.2	0.086	36.1	12.5	1182	29200	38.4	1.8	0.0154	9.1
YK-11	101.6	0.415	24.3	6.7	297	12100	3312	10.2	0.409	0.7
YK-12	86.1	0.147	19.1	6.4	190	13200	1887.5	5.2	0.0891	1.3
YK-14	72.1	0.055	25.4	7.7	456	17000	34.2	3.7	0.0046	3.8
YK-15	101.5	0.1	15.1	5.3	176	6800	689.9	9.3	0.0254	0.7
YK-17	92.6	0.096	20.4	8.4	255	10400	335.4	6.3	0.01	0.6
YK-18	96.2	0.153	20.4	6.3	173	5800	1215.3	3	0.0827	0.5
YK-20	60.90	0.13	21.90	6.00	161	11700	921.1	32.5	0.1	2.2
YK-21	137.00	0.11	21.50	5.40	144	4000	518.1	3.3	0.0	0.3
YK-22	19.30	0.03	5.30	1.10	324	3300	133.4	3.1	0.0	0.3
YK-23	92.90	0.08	10.40	3.40	239	4400	111.6	8.1	0.0	0.2
YK-24	49.70	0.08	9.00	2.90	379	5400	31.3	5.3	0.0	0.5
YK-25	81.90	0.12	23.50	8.10	271	6800	463.3	1.2	0.0	0.3
YK-27	45.00	0.04	25.40	8.00	475	16300	33.4	2.6	0.0	4.6
YK-28	38.40	0.05	14.70	4.40	283	10100	86.5	3.9	0.0	1.3

Supplementary Table 4.1: Continued.

Site Name	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
Method Detection Limit ^a	0.5	0.01	0.02	0.02	2	100	10	0.5	0.5	100
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
BC-37	61	0.31	1.26	0.19	30	11800	1860	21.4	35.7	7000
BC-38	50.6	0.32	2.68	0.35	42	6500	1630	30.4	39.9	6600
BC-39	36.6	0.19	0.52	0.24	37	4200	720	31.8	33.8	7600
BC-40	57.9	0.23	2.27	0.14	20	10800	960	11.5	19.4	4600
BC-41	78.3	0.18	0.96	0.1	18	12700	1270	13	22.5	4600
BC-42	67.2	0.27	2.57	0.2	22	11100	1170	18.8	24.8	4800
BC-43	73.9	0.47	1.29	0.19	28	13600	1070	13	27.7	6000
BC-45	52.9	0.21	0.52	0.41	57	5300	650	44.3	56.1	12200
BC-46	42.1	0.17	13.48	0.26	35	10200	1350	24.1	38.3	7700
BC-47	92.1	0.27	10.17	0.29	40	36100	940	23.7	34.7	6900
BC-48	80.3	0.55	0.83	0.44	16	17800	870	10.3	16	8800
BC-49	199	0.12	1.48	0.11	14	106400	1130	5.8	13.7	5300
BC-50	118.3	0.14	0.65	0.19	12	42700	1350	7.9	13.4	4600
BC-51	68.9	0.21	0.74	0.13	16	16200	980	9.7	13.5	4400
BC-52	62	0.18	0.29	0.21	28	8500	800	25.2	29.4	6200
BC-53	55	0.16	1.71	0.23	19	11000	1100	13	18.8	4400
BC-54	56.3	0.26	1.92	0.12	12	13300	1040	7.7	11.1	3700
BC-55	62.9	0.39	2.37	0.18	23	12000	1140	15	22.1	5000
BC-57	42	0.21	1.85	0.26	41	6600	1300	31	37.4	8700
BC-58	48.6	0.24	1.68	0.24	32	9100	1120	22.2	36	6100
BC-59	220.6	0.22	2.31	0.16	26	33800	1310	13.9	21.3	9900
BC-60	24	0.06	0.75	0.1	17	3900	590	15.7	18.1	3500
BC-61	46.7	0.18	2.15	0.27	46	6600	1080	31.4	44.3	10200
YK-11	32	0.58	106.15	0.32	20	10200	840	9.3	24.8	4200
YK-12	38.5	0.38	33.07	0.15	15	9200	690	8.3	18.3	3800
YK-14	53.1	0.23	1.48	0.18	29	9200	760	16.9	29	6000
YK-15	46.1	0.54	14.6	0.16	18	7800	820	14.1	12.7	1300
YK-17	39.7	0.45	14.72	0.16	17	8200	1210	9.1	28.8	2400
YK-18	48.4	0.51	17.62	0.16	15	8700	1120	8.1	15.5	2000
YK-20	72.3	0.3	19.7	0.22	20	13500	690	12.1	22.1	4500
YK-21	50.3	0.5	14.4	0.11	10	12900	690	4.7	13.9	3200
YK-22	303.8	0.1	3.4	0.04	5	215700	620	1.9	2.8	4600
YK-23	42.1	0.4	7.8	0.14	9	12000	630	4.7	9.6	1700
YK-24	162.8	0.3	0.6	0.07	7	35400	1210	3.8	8	2700
YK-25	32.9	0.5	11.2	0.13	14	10900	980	4.6	14.1	2000
YK-27	82.1	0.3	1.2	0.21	28	27800	720	20.2	27.1	7300
YK-28	58.0	0.2	2.9	0.11	17	12000	1040	10.1	13.4	4200

Supplementary Table 4.1: Continued.

Site Name	Ba	Ti	Al	Na	K	W	Sc	Tl	S	Hg
Method Detection Limit ^a	0.5	10	100	10	100	0.1	0.1	0.02	200	0.005
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
BC-37	215.4	330	14700	570	3200	0.3	2.7	0.17	7200	0.098
BC-38	230	400	18000	430	3200	0.3	3.2	0.2	10100	0.134
BC-39	178.2	670	14700	280	5000	0.2	3.7	0.2	2900	0.031
BC-40	116.1	230	8500	380	1400	0.1	1.4	0.1	8800	0.129
BC-41	153.1	230	9700	580	1800	0.1	2.1	0.1	7300	0.147
BC-42	127.3	250	10200	270	1500	0.2	2.1	0.13	6000	0.147
BC-43	177.2	200	10000	630	2000	0.3	2.1	0.12	16600	0.071
BC-45	284.2	970	25500	650	5900	0.1	7	0.32	1000	0.019
BC-46	166.2	470	15100	370	3100	0.3	3.5	0.18	7500	0.125
BC-47	151.9	450	14900	400	2800	0.2	4	0.2	13900	0.08
BC-48	156.3	200	8200	3910	3000	0.1	1.4	0.13	5800	0.087
BC-49	170.5	160	4500	680	1400	0.3	0.9	0.07	6400	0.035
BC-50	120.2	170	5000	760	1800	0.2	1	0.07	7900	0.045
BC-51	120.1	150	5600	310	1300	0.05	1.3	0.06	6600	0.072
BC-52	142.9	450	13500	350	2600	0.1	3.7	0.15	4100	0.039
BC-53	126.4	210	7900	310	1400	0.1	2	0.07	5500	0.083
BC-54	119.8	130	5000	480	1000	0.1	1.4	0.05	5000	0.08
BC-55	148.7	260	10500	410	1900	0.1	2.5	0.11	4300	0.158
BC-57	230.8	500	17200	370	3900	0.2	3.7	0.19	2200	0.046
BC-58	205.1	350	16200	300	2900	0.1	3.4	0.15	4300	0.079
BC-59	209.7	250	10100	1490	3100	0.2	2.1	0.1	4100	0.067
BC-60	85.6	290	7200	180	1700	0.1	1.8	0.08	1600	0.034
BC-61	204	650	19100	510	4500	0.2	4.8	0.23	2500	0.06
YK-11	71.4	140	6600	390	1100	0.5	1	0.11	14900	0.31
YK-12	89.8	160	5600	450	1000	0.2	1.4	0.1	14700	0.093
YK-14	147.3	350	11200	360	2500	0.1	2.3	0.15	4700	0.05
YK-15	130.5	70	8000	250	300	0.2	0.7	0.08	6900	0.096
YK-17	87.1	100	7600	250	700	0.1	0.8	0.07	7800	0.06
YK-18	119.4	70	5700	320	600	0.2	0.6	0.09	8900	0.12
YK-20	85.4	250	8200	260	1300	0.2	1.8	0.11	13200	0.126
YK-21	38.4	80	3900	540	400	0.2	1.1	0.06	11500	0.153
YK-22	205.5	30	1400	400	400	0.05	0.5	0.02	5100	0.023
YK-23	117.2	40	3600	280	300	0.05	0.5	0.03	7900	0.078
YK-24	106.9	60	2900	400	1000	0.2	0.5	0.04	7100	0.048
YK-25	72	70	5500	150	400	0.1	0.9	0.08	12500	0.158
YK-27	164.9	410	11400	520	3100	0.2	3.1	0.16	6300	0.037
YK-28	95.8	160	5400	390	1300	0.2	1.1	0.07	9800	0.058

Supplementary Table 4.1: Continued.

Site Name	Se	Ga	Cs	Hf	Nb	Rb	Sn	Zr	Y	Ce
Method Detection Limit ^a	0.1	0.1	0.02	0.02	0.02	0.1	0.1	0.1	0.01	0.1
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
BC-37	1.1	4.9	1.69	0.13	1.52	28.4	0.5	4.9	7.48	44.8
BC-38	1	6	1.83	0.06	1.63	29.9	0.9	4	11.26	62.3
BC-39	0.6	5.3	1.56	0.1	1.33	31.7	0.7	5.2	9.79	68.6
BC-40	1	2.7	0.92	0.07	0.83	13.9	0.3	4.2	4.91	23.8
BC-41	1.1	2.9	0.89	0.11	0.99	14.9	0.2	5.1	5.75	27
BC-42	0.9	3.2	1.15	0.18	1.29	17.5	0.5	8.8	7.8	36.8
BC-43	1.5	2.7	1.13	0.05	0.91	17.5	0.3	2.3	5.74	28.2
BC-45	0.2	9.9	2.42	0.29	0.67	48.1	1.2	14.3	12.85	89.3
BC-46	1	5.4	1.68	0.17	2.01	27.4	0.8	8.1	7.73	49.9
BC-47	0.8	5.2	1.47	0.18	1.8	27.9	0.8	9.1	7.99	48.1
BC-48	1.6	1.8	0.87	0.02	0.7	11	0.1	1	4.81	22.2
BC-49	0.2	1.6	0.67	0.01	0.41	9	0.1	0.4	2.69	12.1
BC-50	0.5	1.6	0.71	0.04	0.58	10.5	0.2	1.6	2.99	16
BC-51	1.4	1.6	0.58	0.1	0.76	9.2	0.2	4.6	3.47	19.6
BC-52	0.4	5	1.26	0.23	2.03	26.4	0.6	10.3	8.28	50.8
BC-53	0.9	2.3	0.8	0.18	1.09	13.7	0.3	8	4.47	26.6
BC-54	1	1.4	0.49	0.09	0.46	7	0.2	3.7	2.96	15.5
BC-55	0.9	3	0.95	0.1	1.12	16.6	0.2	5.9	5.41	29.5
BC-57	0.4	6.2	1.75	0.08	1.47	33.4	0.8	5.1	10.01	64.7
BC-58	0.8	5.4	1.53	0.14	1.82	28.2	0.7	7.9	8	45.4
BC-59	0.9	3.2	1.01	0.1	1.17	17.4	0.4	6.1	5.09	27.9
BC-60	0.3	2.4	0.8	0.05	0.71	14	0.3	2.6	5.19	32.1
BC-61	0.7	6.6	2.07	0.13	1.88	35.3	0.8	7.4	9.73	64.1
YK-11	1.2	2	0.91	0.01	0.53	9.4	0.3	0.9	4.53	18.6
YK-12	1.2	1.8	0.85	0.06	0.61	9.2	0.2	2.1	3.65	16.2
YK-14	0.9	3.9	1.29	0.15	1.38	22.9	0.9	5.2	5.42	32.3
YK-15	1.5	1	0.31	0.03	0.41	2.9	0.05	1.1	8.5	28.8
YK-17	1.3	1.6	0.63	0.01	0.46	6.5	0.05	1.3	5.11	18.2
YK-18	1.3	1	0.41	0.06	0.33	4.8	0.2	1.4	4.83	16.1
YK-20	1.6	2.7	0.93	0.1	1.05	13.2	0.6	4.7	4.72	23.4
YK-21	1	0.8	0.39	0.01	0.22	2.9	0.1	0.5	3.37	8.8
YK-22	0.9	0.3	0.12	0.02	0.12	1.6	0.05	0.6	1.26	3.6
YK-23	0.6	0.6	0.25	0.01	0.31	2.1	0.2	0.8	4.11	9.4
YK-24	1	0.6	0.25	0.01	0.21	3.3	0.05	0.8	1.9	8.1
YK-25	1.2	0.9	0.42	0.01	0.2	2.9	0.05	0.7	3.56	10
YK-27	0.8	4.3	1.3	0.16	1.71	21.8	0.7	7.9	6.91	39.4
YK-28	1.2	1.8	0.6	0.07	0.66	9.4	0.2	3.6	3.66	19.3

Supplementary Table 4.1: Continued.

Site Name	Be	Li	Total Test Count	SDI	AV	CAA	CAD	CCA	CCC
Method Detection Limit ^a	0.1	0.1	%	Measurement	%	%	%	%	%
Units	mg·kg ⁻¹	mg·kg ⁻¹							
BC-37	0.8	31.2	306	1.77	0	2	0	126	1
BC-38	0.9	32.7	243	2.02	0	8	1	27	20
BC-39	0.6	27.8	286	2.09	0	10	5	52	35
BC-40	0.5	12	208	2.13	0	4	2	12	9
BC-41	0.2	12.2	175	2.25	15	6	0	7	12
BC-42	0.7	16	174	2.36	5	9	2	17	5
BC-43	0.3	16.5	213	1.64	1	5	0	6	17
BC-45	0.9	44.6	195	2.09	0	15	10	6	9
BC-46	0.5	27.4	296	2.01	0	21	1	0	0
BC-47	0.6	22.7	312	1.97	2	78	2	20	83
BC-48	0.05	17.3	10		0	0	0	5	1
BC-49	0.2	10.1	245	1.79	0	26	0	46	53
BC-50	0.4	12	175	1.86	0	21	0	38	35
BC-51	0.4	7.4	237	2.01	3	49	4	4	10
BC-52	0.6	22.1	267	2.22	0	32	0	15	12
BC-53	0.3	12.1	240	2.13	17	5	2	1	7
BC-54	0.6	5.9	150	1.80	34	4	0	10	2
BC-55	0.7	14.4	143		14	20	0	1	4
BC-57	0.5	29.2	267	1.92	0	2	0	17	1
BC-58	0.6	25.6	248	2.20	2	0	0	3	5
BC-59	0.9	19.6	302		9	5	1	33	4
BC-60	0.4	13.1	283	2.18	0	14	1	15	20
BC-61	0.8	35.4	309	1.97	4	2	0	2	0
YK-11	0.2	12.3	341	1.58	0	20	6	39	63
YK-12	0.3	10.7	326	1.97	0	41	16	49	88
YK-14	0.4	21.4	369	2.19	9	39	6	2	6
YK-15	0.3	3.1	294	2.02	7	15	34	69	78
YK-17	0.5	7.2	295	1.80	4	3	10	40	29
YK-18	0.4	4.3	323	1.79	3	51	44	103	62
YK-20	0.3	12.5	301	2.29	0	62	7	12	20
YK-21	0.3	6	268	1.39	0	19	12	26	30
YK-22	0.05	1.2	317	1.28	14	191	10	10	13
YK-23	0.1	2.1	168	1.87	0	47	13	18	25
YK-24	0.2	2.9	308	1.86	12	47	19	38	71
YK-25	0.05	3.5	336	1.68	0	61	9	10	19
YK-27	0.7	21.8	424	1.78	3	201	36	6	11
YK-28	0.05	8.2	385	2.09	3	165	19	3	9

Supplementary Table 4.1: Continued.

Site Name	CCS	CP	CT	Dbac	DB	MC	DF	Dnod	DGG	DGD	Dglob	DOBry
Method Detection Limit ^a	%	%	%	%	%	%	%	%	%	%	%	%
Units												
BC-37	0	54	37	0	0	0	0	0	25	0	0	0
BC-38	3	0	21	0	0	0	0	0	58	0	0	0
BC-39	11	2	6	0	0	0	0	0	12	0	0	0
BC-40	7	0	50	0	0	0	0	0	22	0	0	0
BC-41	0	0	44	0	0	1	0	0	12	0	0	0
BC-42	0	0	50	0	0	0	0	0	26	0	0	0
BC-43	6	0	43	0	0	0	0	0	7	0	0	0
BC-45	9	1	74	0	0	1	0	0	32	11	0	0
BC-46	0	62	34	0	0	0	0	0	5	0	0	0
BC-47	22	0	39	0	0	0	0	0	1	0	0	0
BC-48	1	0	0	0	0	0	0	0	0	0	0	0
BC-49	3	0	12	0	0	0	0	0	0	0	0	0
BC-50	0	0	11	0	0	0	0	0	1	0	0	0
BC-51	1	0	80	0	0	11	0	0	0	0	0	0
BC-52	0	2	80	0	0	2	0	0	3	1	0	0
BC-53	0	2	71	0	0	0	0	0	20	0	1	0
BC-54	0	0	41	0	0	0	0	0	0	0	0	0
BC-55	0	0	49	0	0	0	0	0	14	0	0	0
BC-57	0	1	29	0	0	0	0	0	65	0	0	0
BC-58	0	0	32	0	0	0	0	0	18	0	0	0
BC-59	0	44	137	15	0	0	0	0	7	0	0	0
BC-60	0	0	47	0	0	1	0	0	13	0	0	0
BC-61	1	31	82	0	0	0	0	0	42	1	0	0
YK-11	2	5	1	0	0	0	0	0	2	2	0	0
YK-12	1	3	10	0	0	0	0	0	1	2	1	0
YK-14	0	2	109	0	0	0	0	0	12	2	2	0
YK-15	0	5	23	0	0	0	0	0	5	1	0	0
YK-17	0	0	10	0	0	0	0	2	8	11	1	0
YK-18	2	1	4	0	0	0	0	0	1	0	0	0
YK-20	1	20	21	0	0	0	0	0	10	13	13	0
YK-21	0	0	16	0	0	0	0	0	0	0	0	0
YK-22	0	5	16	0	0	0	0	0	2	0	29	0
YK-23	0	7	0	0	0	0	0	0	3	0	1	0
YK-24	0	0	0	0	0	0	0	0	1	3	0	0
YK-25	0	0	10	0	0	0	0	0	0	0	0	0
YK-27	2	1	43	0	1	1	0	0	10	0	2	0
YK-28	2	9	27	0	0	24	0	0	5	0	0	0

Supplementary Table 4.1: Continued.

Site Name	DOLan	DOLin	DOO	DOS	DOT	DP	DA	DC	DUE	DUU	DU	Dscal
Method Detection Limit ^a	%	%	%	%	%	%	%	%	%	%	%	%
Units												
BC-37	15	0	14	2	0	4	2	0	0	0	0	0
BC-38	3	0	10	0	10	0	2	3	0	0	0	0
BC-39	0	0	105	0	7	0	0	4	0	0	0	0
BC-40	0	0	7	1	2	1	8	1	0	0	4	1
BC-41	0	0	10	2	3	5	4	2	0	0	1	0
BC-42	0	0	12	2	1	0	5	2	0	0	0	0
BC-43	0	0	4	0	0	0	1	0	0	0	0	0
BC-45	0	0	5	0	0	0	2	2	0	6	0	0
BC-46	114	0	6	2	0	10	18	5	0	1	0	0
BC-47	13	0	14	0	0	2	3	4	0	0	1	0
BC-48	0	0	0	0	0	0	0	0	0	0	0	0
BC-49	0	0	9	0	0	0	0	0	0	0	0	0
BC-50	0	0	3	0	0	0	1	1	0	0	0	0
BC-51	4	0	29	0	0	4	1	2	0	11	1	0
BC-52	4	0	37	0	0	2	17	15	0	0	0	0
BC-53	3	0	19	0	1	8	6	3	0	2	0	0
BC-54	0	0	10	0	1	1	0	0	0	0	0	2
BC-55	2	0	6	0	0	1	1	2	0	0	0	0
BC-57	0	0	84	0	23	0	2	0	0	0	3	0
BC-58	55	0	42	0	0	32	9	3	0	3	4	0
BC-59	35	0	7	2	0	1	0	0	0	0	0	0
BC-60	0	0	78	1	0	1	4	1	0	0	0	0
BC-61	89	0	13	0	5	13	1	0	0	1	1	0
YK-11	0	0	0	0	3	0	1	0	0	0	6	0
YK-12	0	0	4	1	3	0	1	0	0	0	7	0
YK-14	9	0	15	0	4	15	13	2	0	0	5	1
YK-15	0	0	0	0	0	0	0	2	0	0	3	0
YK-17	1	0	4	0	6	0	1	2	0	0	3	0
YK-18	0	0	1	0	0	0	0	0	0	0	2	0
YK-20	0	0	15	0	9	0	1	3	0	1	5	0
YK-21	0	0	1	0	1	0	0	0	0	0	5	0
YK-22	0	0	6	0	0	0	0	0	1	11	0	0
YK-23	0	0	2	0	0	1	4	0	0	0	0	0
YK-24	0	0	2	0	0	1	3	1	0	6	2	0
YK-25	0	0	12	0	3	60	1	0	0	0	1	0
YK-27	4	1	11	0	2	6	17	0	1	22	0	1
YK-28	5	1	32	0	12	10	2	0	0	9	3	0

Supplementary Table 4.1: Continued.

Site Name	Dcur	DE	HS	LV	LS	NC	PC
Method Detection Limit ^a	%	%	%	%	%	%	%
Units							
BC-37	0	13	0	2	2	0	7
BC-38	2	71	1	0	3	0	0
BC-39	1	8	2	8	13	0	5
BC-40	0	65	0	1	5	3	3
BC-41	3	45	0	2	0	0	1
BC-42	9	13	0	4	6	0	6
BC-43	0	107	0	0	10	0	6
BC-45	0	3	0	1	4	0	4
BC-46	5	11	0	1	0	0	0
BC-47	1	27	0	0	0	0	0
BC-48	0	3	0	0	0	0	0
BC-49	0	82	0	3	8	0	3
BC-50	0	51	0	1	8	0	4
BC-51	2	8	0	3	10	0	0
BC-52	1	25	0	8	10	0	1
BC-53	4	58	0	2	7	0	1
BC-54	0	41	0	2	2	0	0
BC-55	2	18	0	5	4	0	0
BC-57	0	28	0	3	3	0	6
BC-58	7	25	0	1	7	0	0
BC-59	0	2	0	0	0	0	0
BC-60	14	49	2	13	6	0	3
BC-61	0	8	0	7	0	0	6
YK-11	1	180	0	7	2	0	1
YK-12	1	89	0	4	3	0	1
YK-14	4	92	0	7	11	0	2
YK-15	2	44	0	6	0	0	0
YK-17	0	150	0	5	3	0	2
YK-18	0	45	0	4	0	0	0
YK-20	0	79	0	3	3	0	3
YK-21	0	158	0	0	0	0	0
YK-22	0	7	0	0	0	0	2
YK-23	0	45	0	1	0	0	1
YK-24	0	95	0	7	0	0	0
YK-25	0	148	0	1	0	0	1
YK-27	0	39	0	1	0	0	2
YK-28	0	29	0	7	7	0	2

Supplementary Table 4.1: Continued.

Site Name	Depth at sampling location	Surface water pH	Bottom water pH	Surface water dissolved oxygen	Bottom water dissolved oxygen	Surface water conductivity	Bottom water conductivity
Method Detection Limit ^a							
Units	(m)			(mg/L)		(µm/S)	(µm/S)
YK-31	1.5	8.06	no data	11.08	no data	161.7	no data
YK-35	5.2	8.12	no data	10.93	no data	218.9	no data
YK-36	5.8	7.89	no data	10.41	no data	217.2	no data
YK-40	5.4	7.98	no data	11.41	no data	115.9	no data
YK-42	2.52	7.62	no data	10.16	no data	230.5	no data
YK-57	0.7	7.18	no data	10.71	no data	375.9	no data
YK-60	6.50	7.07	no data	11.06	no data	165.1	no data
YK-61	>5	7.49	no data	10.46	no data	158.4	no data
YK-62	0.30	7.6	no data	11.54	no data	222.7	no data
YK-63	1.02	7.86	no data	10.75	no data	157.8	no data
YK-64	0.60	8.01	no data	11.7	no data	270.5	no data
YK-65	1.47	7.82	no data	11.47	no data	270.5	no data
YK-66	0.90	7.9	no data	12.31	no data	194.3	no data
YK-67	0.60	8.53	no data	11.16	no data	182.6	no data
YK-68	0.60	8.35	no data	11.89	no data	173.3	no data
YK-100	1.30	8.01	no data	10.9	no data	268.1	no data

Supplementary Table 4.1: Continued.

Site Name	Lake area (ha)	Latitude	Longitude	Year collected	Lake area (Google Earth Orthophoto)	Distance to Giant Mine historic roaster stack	S1	S1
Method Detection Limit^a								
Units		degrees N	degrees W		ha	km	mg HC/g rock	wt.% ^h
YK-31	no data	62.47740	-113.94591	2014	331.53	21.41	22.07	1.83
YK-35	no data	62.59376	-114.33630	2014	40.80	10.25	44.32	3.68
YK-36	no data	62.62372	-114.30857	2014	15.56	13.77	34.82	2.89
YK-40	33.9	62.36688	-114.13094	2014	33.90	19.10	32.57	2.70
YK-42	no data	62.49129	-114.39684	2014	21.24	2.53	52.41	4.35
YK-57	no data	62.54524	-114.29250	2014	7.63	5.85	10.80	0.90
YK-60	no data	62.50549	-114.44806	2014	39.46	4.66	58.21	4.83
YK-61	no data	62.42025	-114.44477	2014	331.53	10.18	6.85	0.57
YK-62	no data	62.42936	-114.46701	2014	25.38	9.89	50.89	4.22
YK-63	no data	62.41479	-114.49336	2014	28.23	12.00	14.74	1.22
YK-64	no data	62.39999	-114.62997	2014	49.67	18.09	30.03	2.49
YK-65	no data	62.42961	-114.61933	2014	125.64	15.73	12.51	1.04
YK-66	no data	62.47304	-114.53817	2014	70.87	9.85	38.17	3.17
YK-67	no data	62.48871	-114.30478	2014	8.77	3.12	29.09	2.41
YK-68	no data	62.48080	-114.28418	2014	4.33	4.49	24.00	1.99
YK-100	no data	62.56105	-114.31680	2014	875.98	6.84	12.96	1.08

Supplementary Table 4.1: Continued.

Site Name	S2	S2	S3	S3	RC	TOC	Sand	Silt	Clay	Mo	Cu	Pb
Method Detection Limit ^a										0.01	0.01	0.01
Units	mg HC/g rock	wt. %	mg HC/g rock	wt. %	%	%	%	%	%	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
YK-31	88.77	7.37	33.49	2.78	13.89	24.78	13.88	76.12	10.01	0.87	20.14	6.04
YK-35	114.89	9.54	42.51	3.53	12.27	27.41	6.88	86.04	7.09	5.51	72.51	2.66
YK-36	80.23	6.66	29.18	2.42	9.68	20.63	8.29	78.58	13.13	57.40	86.71	8.19
YK-40	122.23	10.15	39.21	3.25	16.04	30.81	8.44	73.93	17.63	0.93	24.88	6.88
YK-42	111.60	9.26	36.33	3.02	12.38	27.73	14.42	78.54	7.04	7.27	24.12	5.46
YK-57	31.69	2.63	9.24	0.77	3.03	7.03	10.13	77.43	12.44	6.98	21.51	3.75
YK-60	94.75	7.86	36.59	3.04	11.52	25.97	8.83	81.81	9.36	1.80	33.77	23.96
YK-61	26.17	2.17	10.86	0.90	5.06	8.41	5.07	86.55	8.38	1.13	29.48	11.25
YK-62	131.39	10.91	41.97	3.48	14.41	31.50	6.85	77.26	15.89	1.12	17.03	5.08
YK-63	64.89	5.39	21.94	1.82	11.27	19.07	10.62	82.30	7.07	0.99	30.53	7.56
YK-64	117.71	9.77	44.96	3.73	16.42	30.99	16.48	73.71	9.81	1.06	23.98	4.86
YK-65	48.37	4.01	17.42	1.45	7.84	13.81	5.37	86.65	7.97	1.20	59.39	9.41
YK-66	93.91	7.79	25.04	2.08	9.03	21.26	9.98	78.04	11.98	4.29	25.30	5.36
YK-67	102.69	8.52	40.89	3.39	16.97	29.98	12.01	78.62	9.37	1.08	20.37	5.89
YK-68	94.14	7.81	36.79	3.05	14.78	26.50	11.21	70.91	17.88	1.49	23.96	6.90
YK-100	34.93	2.90	21.66	1.80	7.09	12.20	8.47	82.96	8.57	3.33	28.01	7.78

Supplementary Table 4.1: Continued.

Site Name	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th
Method Detection Limit^a	<i>0.1</i>	<i>0.002</i>	<i>0.1</i>	<i>0.1</i>	<i>1</i>	<i>100</i>	<i>0.1</i>	<i>0.1</i>	<i>0.000 2</i>	<i>0.1</i>
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
YK-31	52.40	0.05	27.20	7.90	593	17700	19.3	1.8	0.0	3.0
YK-35	95.60	0.13	25.60	11.50	916	11100	160.6	2.0	0.0	0.3
YK-36	100.5 0	0.17	33.40	15.30	547	21000	94.9	13.2	0.0	3.5
YK-40	112.4 0	0.08	25.10	7.60	302	14700	198.4	2.3	0.0	1.1
YK-42	105.2 0	0.09	17.20	7.10	477	20100	225.8	12.3	0.0	0.7
YK-57	23.00	0.04	20.60	6.70	226	10700	54.2	3.7	0.0	2.2
YK-60	76.60	0.26	19.40	7.10	643	10100	1728. 2	6.2	0.2	0.7
YK-61	99.80	0.14	34.60	10.60	629	26700	199.2	11.4	0.0	7.1
YK-62	68.50	0.10	13.60	3.90	200	7600	317.8	2.4	0.0	0.7
YK-63	88.10	0.09	36.40	10.10	225	22800	81.2	7.5	0.0	5.5
YK-64	144.9 0	0.08	22.70	7.60	362	10300	90.5	3.8	0.0	1.5
YK-65	97.90	0.98	36.70	11.80	574	25800	23.7	4.8	0.0	6.3
YK-66	86.10	0.08	24.40	7.60	196	15000	225.7	5.9	0.0	2.7
YK-67	46.60	0.07	26.30	7.80	308	14300	392.0	2.7	0.0	1.2
YK-68	59.00	0.08	26.60	7.50	244	12800	553.9	3.0	0.0	1.5
YK-100	40.20	0.06	24.00	7.10	239	16800	37.3	3.0	0.0	5.6

Supplementary Table 4.1: Continued.

Site Name	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
Method Detection Limit^a	0.5	0.01	0.02	0.02	2	100	10	0.5	0.5	100
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
YK-31	53.4	0.2	0.9	0.17	24	9800	940	17.6	23.9	5500
YK-35	24.6	0.5	2.5	0.22	15	16100	1060	4.3	26.1	2300
YK-36	29.7	0.5	2.8	0.28	25	12100	1120	16.6	30.9	5000
YK-40	39.4	0.4	6.1	0.17	20	10500	1230	10.3	21.7	3500
YK-42	28.9	0.6	3.1	0.13	20	9000	760	9	15.8	2400
YK-57	203.4	0.1	1.9	0.12	20	187900	500	10.5	14.5	5500
YK-60	33.3	0.5	75.1	0.2	16	9300	1850	8.4	23.4	3300
YK-61	57.7	0.3	5.1	0.26	39	6900	970	30.2	45.1	7900
YK-62	49.9	0.4	4.6	0.1	11	11600	820	5.3	13.2	2900
YK-63	70.8	0.4	2.3	0.24	34	9500	660	24.7	36.5	6300
YK-64	61.4	0.6	2.4	0.14	18	12800	750	11.2	19.1	3300
YK-65	51.3	0.4	1.6	0.32	36	8600	2920	28	39	7200
YK-66	40.8	0.4	9.9	0.17	22	8100	550	15.3	23.7	3700
YK-67	51.1	0.2	9.1	0.13	19	10600	1050	13.4	18.6	4300
YK-68	57.9	0.3	10.9	0.13	20	10400	1120	15.9	19.9	4500
YK-100	87.7	0.1	3.4	0.21	31	81500	440	21.5	30.6	6800

Supplementary Table 4.1: Continued.

Site Name	Ba	Ti	Al	Na	K	W	Sc	Tl	S	Hg
Method Detection Limit ^a	0.5	10	100	10	100	0.1	0.1	0.02	200	0.005
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
YK-31	143.7	300	10600	380	3000	0.05	2.3	0.13	6800	0.041
YK-35	42.1	90	5100	140	400	0.3	1	0.09	16900	0.121
YK-36	82.3	370	11800	250	1700	0.3	3.6	0.21	18100	0.132
YK-40	103.8	150	8200	270	1200	0.2	1	0.09	8100	0.143
YK-42	57.5	80	7100	300	600	0.2	1	0.05	12200	0.065
YK-57	137.4	240	6700	390	1500	0.2	1.9	0.1	7300	0.023
YK-60	96.7	110	6700	340	1200	0.3	1	0.1	8100	0.179
YK-61	178.5	570	19500	400	3600	0.3	4.9	0.23	6100	0.113
YK-62	112.7	90	4200	410	700	0.1	0.8	0.05	7700	0.059
YK-63	147.2	470	16200	370	2800	0.2	4	0.17	15200	0.076
YK-64	98.3	180	6900	180	900	0.05	1.7	0.09	5700	0.11
YK-65	211.5	480	16500	530	3300	0.1	4.4	0.19	4100	0.106
YK-66	90.6	250	8900	520	1300	0.2	2.6	0.1	14500	0.091
YK-67	123	170	7100	340	1400	0.1	1.5	0.08	9100	0.094
YK-68	123.4	200	8400	690	2300	0.2	1.6	0.1	10000	0.103
YK-100	145.1	500	12800	360	2900	0.2	3.1	0.17	4700	0.02

Supplementary Table 4.1: Continued.

Site Name	Se	Ga	Cs	Hf	Nb	Rb	Sn	Zr	Y	Ce
Method Detection Limit ^a	0.1	0.1	0.02	0.02	0.02	0.1	0.1	0.1	0.01	0.1
Units	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹	mg·kg ⁻¹
YK-31	1	3.7	1.07	0.1	1.33	19.5	0.7	5.3	5.79	35
YK-35	1.9	1.2	0.94	0.01	0.24	3.6	0.1	0.8	2.95	9.3
YK-36	1.9	4.1	1.62	0.11	0.99	21.9	0.5	3	6.25	32.8
YK-40	1.1	2.1	0.81	0.06	0.81	11.1	0.1	3.2	4.59	22
YK-42	1.2	1.3	0.46	0.01	0.43	4.6	0.2	0.9	5.45	18.3
YK-57	0.4	2.3	0.77	0.03	0.77	11.9	0.3	2	4.07	20.7
YK-60	1.1	1.7	0.68	0.02	0.38	8.6	0.3	0.9	3.93	16.8
YK-61	0.9	6.8	1.82	0.08	1.76	33.9	0.9	6.1	10.23	59.6
YK-62	1.1	1.1	0.42	0.04	0.32	4.9	0.05	1.7	2.58	10.9
YK-63	1	5.3	1.49	0.19	2.04	28.9	0.6	9.6	8.5	48.2
YK-64	1.9	2	0.81	0.05	0.6	8.8	0.3	2.8	5.11	21.4
YK-65	1.4	5.8	1.66	0.13	1.84	29.4	1.5	7.3	9.46	55
YK-66	1	2.5	1.01	0.06	0.85	11.7	0.5	2.3	6.45	29.9
YK-67	1.3	2.3	0.72	0.09	0.81	10.9	0.5	3.3	5.49	25.3
YK-68	1.2	2.7	0.76	0.07	0.93	12.5	0.4	4.9	6.12	30.4
YK-100	0.5	4.8	1.49	0.07	1.27	24.5	0.7	5.8	7.56	41.9

Supplementary Table 4.1: Continued.

Site Name	Be	Li	Total Test Count	SDI	AV	CAA	CAD	CCA	CCC
Method Detection Limit ^a	0.1	0.1	%	Measurement	%	%	%	%	%
Units	mg·kg ⁻¹	mg·kg ⁻¹							
YK-31	0.4	18.5	389	1.65	2	41	11	1	0
YK-35	0.3	5.4	288	2.06	1	27	30	55	32
YK-36	0.7	19	327	1.98	0	29	19	49	36
YK-40	0.3	10.8	309	2.41	1	28	39	50	9
YK-42	0.4	6.3	315	1.50	1	19	18	54	46
YK-57	0.2	10.9	382	1.49	1	215	40	7	21
YK-60	0.2	11.6	338	1.61	0	48	12	23	16
YK-61	0.7	35	296	1.16	0	4	1	1	0
YK-62	0.3	4.9	290	1.60	0	73	3	5	12
YK-63	0.9	28.2	308	2.26	1	68	11	3	2
YK-64	0.2	6.8	308	2.30	1	22	5	0	7
YK-65	0.8	28.4	312	2.28	0	7	5	0	2
YK-66	0.5	15.8	248	1.42	0	18	4	2	37
YK-67	0.7	9.8	249	2.23	1	42	10	11	3
YK-68	0.6	10.7	369	2.31	10	111	13	6	9
YK-100	0.4	22.7	345	1.96	0	131	10	3	13

Supplementary Table 4.1: Continued.

Site Name	CCS	CP	CT	Dbac	DB	MC	DF	Dnod	DGG	DGD	Dglob	DOBry
Method Detection Limit ^a	%	%	%	%	%	%	%	%	%	%	%	%
Units												
YK-31	0	22	8	0	0	0	0	0	1	1	1	0
YK-35	0	3	6	0	0	0	0	0	0	0	0	0
YK-36	3	4	15	0	0	0	0	0	8	4	5	0
YK-40	0	0	38	0	0	0	0	0	41	1	2	0
YK-42	0	0	4	0	0	0	0	0	0	0	1	0
YK-57	5	0	24	0	0	1	0	0	0	0	0	0
YK-60	0	3	0	0	0	0	0	0	0	2	3	0
YK-61	0	0	193	0	0	0	0	0	41	12	0	0
YK-62	1	0	16	0	0	0	0	0	1	5	1	0
YK-63	0	5	35	0	1	0	0	0	0	0	23	0
YK-64	0	1	21	0	0	0	0	0	14	36	1	0
YK-65	0	0	54	0	6	0	0	0	16	24	1	0
YK-66	0	0	3	0	0	0	0	0	8	0	0	0
YK-67	0	1	20	0	7	5	0	0	8	3	6	0
YK-68	0	7	68	0	2	7	0	0	5	7	3	0
YK-100	0	0	10	0	0	1	0	0	28	0	20	0

Supplementary Table 4.1: Continued.

Site Name	DOLan	DOLin	DOO	DOS	DOT	DP	DA	DC	DUE	DUU	DU	Dscal
Method Detection Limit ^a	%	%	%	%	%	%	%	%	%	%	%	%
Units												
YK-31	64	6	13	0	4	179	13	0	0	1	6	0
YK-35	2	1	0	0	0	1	2	0	0	84	7	0
YK-36	0	0	3	0	0	0	2	0	2	14	14	0
YK-40	1	0	6	3	11	0	3	0	8	9	15	0
YK-42	0	0	4	0	5	0	1	0	0	2	0	0
YK-57	0	2	7	0	0	10	1	0	5	19	2	0
YK-60	0	0	0	0	0	0	0	0	96	119	0	0
YK-61	0	0	10	0	1	0	0	0	3	0	0	0
YK-62	0	0	4	2	2	0	0	0	11	6	8	0
YK-63	1	0	29	0	2	26	5	0	11	5	8	0
YK-64	0	0	21	2	21	4	5	0	13	6	3	0
YK-65	5	2	56	1	8	6	4	1	35	13	8	0
YK-66	1	0	0	0	5	1	6	4	0	0	1	1
YK-67	1	0	18	0	5	1	3	1	10	5	6	0
YK-68	0	0	23	2	10	6	6	1	13	10	3	0
YK-100	10	4	9	0	3	18	11	3	11	3	3	0

Supplementary Table 4.1: Continued.

Site Name	Dcur	DE	HS	LV	LS	NC	PC
Method Detection Limit ^a	%	%	%	%	%	%	%
Units							
YK-31	3	0	0	3	0	0	9
YK-35	0	26	0	4	1	0	6
YK-36	0	117	0	1	0	0	2
YK-40	1	24	0	5	3	0	11
YK-42	0	159	0	1	0	0	0
YK-57	3	19	0	0	0	0	0
YK-60	0	16	0	0	0	0	0
YK-61	0	29	0	0	0	0	1
YK-62	0	133	0	1	4	0	2
YK-63	5	49	0	3	5	0	10
YK-64	0	94	0	8	17	0	6
YK-65	0	44	0	3	2	0	9
YK-66	0	153	0	1	3	0	0
YK-67	0	77	0	1	4	0	0
YK-68	0	32	0	5	10	0	0
YK-100	0	47	0	2	3	0	2

Supplementary Table 4.2: Spearman Correlation

Variable	Cu	Pb	As	U	Ca	P	Mg	Ba	Na
Cu	1.000	0.568	0.311	0.353	-0.233	0.076	-0.023	-0.209	-0.224
Pb	0.568	1.000	0.327	0.195	-0.370	0.182	0.201	0.054	-0.002
As	0.311	0.327	1.000	0.311	0.069	-0.061	-0.509	-0.441	-0.198
U	0.353	0.195	0.311	1.000	-0.126	-0.041	-0.305	-0.268	-0.294
Ca	-0.233	-0.370	0.069	-0.126	1.000	-0.021	-0.062	0.024	0.180
P	0.076	0.182	-0.061	-0.041	-0.021	1.000	0.044	0.235	0.083
Mg	-0.023	0.201	-0.509	-0.305	-0.062	0.044	1.000	0.692	0.559
Ba	-0.209	0.054	-0.441	-0.268	0.024	0.235	0.692	1.000	0.415
Na	-0.224	-0.002	-0.198	-0.294	0.180	0.083	0.559	0.415	1.000
S	0.426	0.138	0.598	0.306	0.191	-0.100	-0.414	-0.618	-0.031
Hg	0.551	0.486	0.512	0.317	0.045	0.395	-0.364	-0.328	-0.285
Sand	-0.186	-0.351	-0.104	-0.101	0.023	-0.153	-0.171	-0.185	-0.200
Silt	0.274	0.252	0.214	0.143	0.048	-0.072	0.132	0.077	0.246
Clay	-0.132	0.019	-0.023	0.058	0.075	0.213	-0.052	0.062	-0.010
S1	0.127	-0.076	0.488	0.315	0.132	0.016	-0.735	-0.683	-0.134
S2	-0.032	-0.256	0.361	-0.016	0.310	0.004	-0.592	-0.476	-0.128
S3	-0.123	-0.263	0.426	0.019	0.441	0.156	-0.666	-0.400	-0.223
RC	-0.159	-0.313	0.203	0.006	0.377	0.151	-0.430	-0.308	-0.135
TOC	-0.096	-0.303	0.319	0.013	0.367	0.082	-0.573	-0.453	-0.124
Dis..to.GM	-0.227	-0.127	-0.559	-0.219	-0.103	0.408	0.132	0.323	-0.010
AV	-0.289	-0.335	0.009	-0.176	0.340	0.098	-0.125	0.170	-0.026
CAA	-0.233	-0.278	0.047	-0.230	0.472	-0.228	0.122	0.058	0.287
CAD	0.012	-0.149	0.256	0.010	0.193	-0.228	-0.211	-0.208	-0.090
CCA	0.236	0.135	0.296	0.304	-0.107	0.010	-0.519	-0.497	-0.323
CCC	0.152	0.035	0.342	0.269	0.080	-0.212	-0.504	-0.502	-0.179
CCS	0.133	0.167	0.078	0.195	0.052	-0.082	-0.028	-0.137	-0.082
CT	-0.179	-0.087	-0.443	-0.351	0.062	0.103	0.631	0.573	0.350
CP	-0.019	0.034	0.134	0.028	0.061	-0.110	0.021	0.038	-0.115
DB	0.060	0.144	0.032	0.035	-0.139	0.111	0.111	0.055	0.058
MC	-0.344	-0.310	-0.278	-0.232	0.136	-0.166	0.225	0.193	0.053
DGG	-0.026	0.252	-0.272	-0.046	-0.285	0.250	0.336	0.403	-0.051
DGD	0.003	0.114	0.136	0.120	-0.157	0.100	-0.043	-0.019	0.014
DOO	-0.237	-0.086	-0.485	-0.106	-0.235	0.168	0.390	0.452	-0.106
DOS	-0.027	-0.028	-0.176	0.065	-0.106	0.126	0.118	0.167	-0.108
DOT	-0.097	0.037	0.030	-0.183	-0.267	0.064	0.152	-0.020	0.027
DP	-0.160	-0.142	-0.383	-0.211	-0.025	0.005	0.153	0.112	-0.065
DA	-0.053	-0.081	-0.286	0.084	-0.094	0.209	0.111	0.220	-0.291
DCI	-0.061	0.025	-0.211	0.006	-0.092	0.032	0.233	0.281	0.005
DU	0.046	-0.055	0.055	-0.269	0.071	-0.016	0.127	-0.046	0.185
Dscal	-0.053	-0.140	-0.125	0.046	-0.068	-0.228	-0.077	-0.059	-0.158
Dcur	-0.129	-0.019	-0.200	0.071	-0.206	0.093	0.037	0.117	-0.274
DE	0.163	-0.026	0.341	0.148	-0.008	-0.143	-0.451	-0.593	-0.089
LV	-0.188	-0.152	-0.276	-0.122	-0.193	0.045	0.114	0.058	-0.028
LS	-0.275	-0.257	-0.271	-0.069	-0.107	-0.058	0.215	0.205	-0.057
PC	-0.065	-0.045	-0.307	-0.141	-0.053	0.136	0.361	0.338	0.105