

Appendix 2

Trace element concentrations of bulk samples from study area

Sample (ppm)	Parent rock		Kaolin samples														
	At-1	At-2	BK51-2	BK53-3	KN-Geo- 1	A22	Yass1	EGA3*	TRM2*	EMA1*	KHA1*	GAW5*	EMB5*	BAM6*	R32*	MR3*	AS2*
Ba	180	174	104	54	146	71	251										
Rb	333.2	328.5		0.4	308.9	0.4	2										
Sr	39.3	28.1	1138	1042	95	1021	254.8										
Zr	48.5	47.8	73.4	62.3	746	39.4	63.1										
Nb	9.5	11.3	14.2	11.3	27.9	5.7	8.7										
Co	0.5	<0.2	<0.2	<0.2	<0.2	0.4	<0.2										
La	9.8	8.2	14.3	11.6	85	27.8	11.7	3.50	5.11	10.04	5.92	6.51	8.97	6.97	6.2	8.22	8.43
Ce	18.9	17.8	29.2	23.1	182.9	81	28.3	2.48	0.93	14.16	6.29	3.19	5.68	14.4	3.1	13.1	4.43
Pr	1.93	1.81	2.41	2.07	18.65	8.77	2.76	6.76	42.2	30.62	50.4	24	37.1	21.8	14	27.3	65.7
Nd	6.7	5.7	7	7.8	66.8	22.8	10.7	11.9	78.9	55.3	83.8	42.7	51.6	38.9	25	50.9	136
Sm	1.74	1.43	1.37	1.63	13.25	1.17	2.47	1.74	7.31	5.95	8.06	4.37	5.02	4.51	2.6	5.58	15.9
Eu	0.14	0.15	0.16	0.13	1.3	0.12	0.25	5.82	19.7	17.24	32.9	12.8	17.7	16.2	6.6	17.1	58.3
Gd	1.94	2.06	0.9	0.75	11.75	<0.05	1.98	1.71	2.77	2.45	7.81	2.05	3.95	4.03	1.2	2.89	7.54
Tb	0.42	0.39	0.14	0.1	2.06	0.02	0.34	0.67	0.73	0.90	2.01	0.73	0.94	1.05	0.6	0.87	1.20
Dy	2.87	2.6	0.85	0.47	11.66	0.36	1.77	1.28	1.52	2.60	6.49	1.87	2.55	3.57	1.1	2.8	2.54
Ho	0.60	0.49	0.2	0.12	2.58	0.05	0.31	0.58	0.58	0.97	1.04	0.65	0.73	1.04	0.5	0.89	0.74
Er	1.95	1.93	0.73	0.35	7.16	0.23	1	1.09	0.81	3.71	2.48	1.54	2.13	4.45	1.3	3.76	1.54
Tm	0.30	0.24	0.14	0.06	1.11	0.03	0.15	0.57	0.51	1.22	0.78	0.64	0.76	1.29	0.6	1.21	0.70
Yb	1.87	1.81	1.28	0.5	7.4	0.47	0.96	0.86	0.62	3.01	1.4	1.11	1.51	3.25	1.1	3.15	1.20
Lu	0.30	0.29	0.22	0.06	1.25	0.05	0.16	0.53	0.5	0.95	0.59	0.58	0.63	0.89	0.5	0.91	0.64
Y	16.5	16.4	5.4	2.6	64	1.6	7.8	0.94	0.63	3.8	1.33	1.33	1.79	3.54	1.3	3.73	1.38
Cs	19.8	19.4	0.6	0.4	21.4	0.3	0.9	0.54	0.5	1.009	0.58	0.61	0.66	0.88	0.5	0.95	0.65
Ta	1.5	1.3	2.3	2.1	2.3	0.9	1.2										
Hf	1.8	1.8	2.5	2.3	19.9	1.1	2.1										
Be	<1	3	<1	<1	7	3	3										
Ga	14.5	17	33	31	33.6	16.6	14.8										
Sn	8	10	16	16	8	7	10										
Th	12.6	12.4	17.2	13.2	27.3	4.1	13.5										
U	3.8	3	3.3	1.5	7	0.7	2.1										
V	13	21	<8	9	20	58	<8										
W	2.2	2.5	5	2	0.8	6.7	3.4										
LaN/Yb _N	3.5	0.3	7.532	15.64	7.744	39.88	8.217	2.7	5.49	2.22	2.82	3.91	3.96	1.43	3.7	1.74	4.66
Eu/Eu*	0.2	0.3	0.441	0.359	0.319	-	0.346	10.3	13.5	13.87	12.8	13.2	12.2	11.7	11	13.09	16.4

*Data from Gharibnavaz et al. (2007).