

APPENDIX 1

Results of the rare earth element (REE) composition analyses in the samples studied

No.	Laboratory No.	Sample	Sc	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Th
			ppm																
1.	10/13/30	Nk/187.5	15.0	21.2	34.8	72.8	8.6	33.3	6.47	1.33	5.35	0.75	4.29	0.81	2.42	0.36	2.31	0.35	12.89
2.	10/13/31	Nk/178.4	11.8	81.1	441.6	1131.9	128.8	499.6	97.45	19.09	70.77	8.28	33.44	4.29	8.75	0.92	4.68	0.60	12.37
3.	10/13/32	Nk/167.8	23.2	10.8	16.1	33.8	4.1	15.3	2.98	0.54	2.16	0.35	2.12	0.44	1.33	0.21	1.59	0.24	20.44
4.	10/13/33	Nk/162.3	24.1	23.0	4.8	8.8	0.9	3.5	1.11	0.35	2.17	0.50	3.88	0.85	2.65	0.43	3.68	0.44	22.37
5.	10/13/34	Nk/157.7	16.6	25.9	42.1	78.9	8.2	28.6	5.00	1.00	4.49	0.78	4.86	1.02	3.08	0.48	3.25	0.48	17.45
6.	10/13/35	Nk/32.0	11.7	23.0	40.9	101.0	10.4	41.4	8.07	1.47	5.87	0.84	4.62	0.91	2.84	0.43	2.92	0.46	13.17
7.	10/13/36	Gr/204.1	23.3	25.5	52.8	106.0	11.7	43.2	7.86	1.55	5.60	0.85	5.07	1.02	3.00	0.44	2.94	0.44	21.37
8.	5/15/24	K/1973.8	15.8	44.0	144.0	275.6	29.2	117.8	23.26	4.90	18.72	2.36	11.77	2.08	5.69	0.72	4.65	0.68	12.13
9.	10/13/37	K/1480.3	14.0	18.5	35.1	76.1	8.5	32.8	6.54	1.26	4.69	0.66	3.73	0.73	2.16	0.32	2.23	0.34	14.39
10.	5/15/23	K/1465.2	14.4	16.3	45.1	100.6	10.0	35.6	5.67	1.11	3.93	0.58	3.48	0.71	2.27	0.34	2.41	0.39	21.43
11.	5/15/25	K/1464.3	14.2	18.9	68.2	161.4	16.3	57.1	9.30	1.61	6.11	0.79	4.60	0.95	3.12	0.45	3.17	0.52	22.06
12.	10/13/38	K/1463.7	23.7	39.5	114.7	234.4	25.2	86.9	13.83	2.32	8.76	1.32	7.80	1.59	5.17	0.83	5.78	0.91	51.89
13.	5/15/26	K/1462.3	11.9	20.2	60.5	133.9	13.1	45.2	7.81	1.41	5.86	0.78	4.37	0.86	2.62	0.36	2.37	0.37	33.61
14.	5/15/14	M/1130.0	10.2	30.9	42.5	97.1	10.9	41.0	8.11	1.20	6.74	1.02	6.00	1.19	3.53	0.51	3.33	0.52	23.40
15.	5/15/15	M/700.5	7.9	16.1	31.6	69.5	7.5	28.0	5.21	0.83	4.02	0.58	3.23	0.63	1.85	0.26	1.71	0.26	14.00
16.	10/13/39	BL/185.5	8.9	14.5	28.8	58.5	6.7	25.3	4.64	0.76	3.48	0.53	2.97	0.56	1.62	0.24	1.61	0.25	10.99
17.	10/13/40	BL/162.0	11.8	20.7	32.7	76.0	8.4	33.0	6.47	1.28	5.23	0.76	4.27	0.82	2.42	0.36	2.33	0.36	12.58
18.	10/13/41	BL/159.0	19.1	25.0	46.0	89.8	10.3	39.3	7.41	1.50	5.86	0.88	4.99	0.97	2.87	0.42	2.68	0.41	16.85
19.	5/15/27	GW/815.0	17.7	21.3	43.8	90.5	10.2	37.7	7.00	1.50	5.74	0.80	4.57	0.89	2.66	0.36	2.33	0.35	12.92
PAAS*			16	27	38.2	79.6	8.83	33.90	1.08	5.55	4.66	0.77	4.68	0.99	2.85	0.41	2.82	0.43	14.60
chondrite*					0.367	0.957	0.137	0.711	0.231	0.087	0.306	0.058	0.381	0.0851	0.249	0.0356	0.248	0.0381	

Dark red – Norian, pink – Rhaetian, dark blue – Hettangian, blue – Sinemurian, light blue – Pliensbachian, green – Toarcian

* – after Taylor and McLennan, 1985; Nk, Gr, BL – Holy Cross Mts. segment of MPT, K – Kuyavian segment of MPT, M – Pomeranian segment of MPT, GW – Fore-Sudetic Monocline (northern part)