APPENDIX 2

REE concentrations (ppm) in studied samples of the Kupferschiefer series

Borehole	Sample	Redox zone	Mineralization zone	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	REE	LREE	MREE	HREE	Y	Sc
Czmoń 11	7	O	hematite	36.1	72.8	9.1	36.5	7.72	1.52	6.28	0.88	4.63	0.86	2.41	0.33	2.01	0.30	181.44	108.90	52.02	10.54	23.3	14.4
Czmoń 11	8	O	hematite	42.0	88.6	12.1	52.1	12.24	2.45	9.64	1.42	7.65	1.36	3.66	0.49	2.88	0.42	237.01	130.60	76.43	16.46	34.3	18.1
Grochowice 3	11	R	copper	32.3	65.4	8.2	32.3	6.48	1.39	5.48	0.77	4.15	0.75	1.97	0.26	1.59	0.23	161.27	97.70	45.65	8.95	19.8	7.3
Grochowice 3	12	R	Pb-Zn	6.5	13.9	2.1	9.5	2.66	0.67	2.44	0.35	1.71	0.28	0.70	0.09	0.58	0.08	41.56	20.40	15.27	3.44	7.1	2.1
Grochowice 3	13	R	copper	8.2	16.2	2.3	9.8	2.51	0.61	2.23	0.30	1.52	0.26	0.69	0.10	0.62	0.09	45.43	24.40	15.15	3.28	7.0	1.9
Grochowice 3	14	R	pyrite	9.5	18.8	2.4	9.3	1.97	0.48	1.64	0.24	1.31	0.25	0.69	0.10	0.64	0.09	47.41	28.30	13.39	3.08	6.4	2.6
Henrykowice 8	42	R	copper	32.9	64.3	8.5	31.3	5.57	1.20	4.72	0.68	3.81	0.73	2.09	0.31	1.93	0.29	158.33	97.20	42.79	9.16	20.1	9.3
Henrykowice 8	43	R	pyrite	14.6	29.7	4.3	18.7	4.96	1.29	4.72	0.65	3.25	0.58	1.49	0.20	1.22	0.18	85.84	44.30	29.67	6.92	16.3	4.4
Henrykowice 8	44	T	hematite	10.3	21.7	3.2	14.5	4.31	1.15	4.05	0.55	2.76	0.48	1.22	0.16	0.98	0.14	65.50	32.00	24.01	5.74	13.4	2.8
Henrykowice 8	45	O	hematite	11.5	23.4	3.2	13.6	3.21	0.81	2.74	0.39	2.02	0.36	0.98	0.13	0.86	0.12	63.32	34.90	20.36	4.47	9.5	3.8
Jawor 3	14	O	hematite	6.3	15.7	2.6	12.6	3.42	0.94	3.82	0.48	2.24	0.37	0.84	0.09	0.48	0.07	49.95	22.00	20.78	4.09	13.8	1.0
Jawor 3	15	O	hematite	44.6	85.9	11.0	40.9	7.61	1.75	6.69	1.00	5.85	1.15	3.37	0.49	3.14	0.47	213.92	130.50	56.95	14.47	32.7	12.8
Jawor 3	16	O	hematite	21.0	43.8	6.3	26.1	5.44	1.39	4.97	0.71	3.71	0.67	1.76	0.24	1.46	0.21	117.76	64.80	37.90	8.05	19.2	5.4
Kalwy 2	5	O	hematite	26.0	59.9	8.1	32.8	6.68	1.54	6.48	0.90	4.94	0.94	2.57	0.34	2.05	0.30	153.54	85.90	47.50	11.14	27.9	7.9
Kalwy 2	7	T	hematite	49.0	109.2	15.1	64.3	14.81	2.60	12.92	1.85	9.92	1.79	4.58	0.60	3.47	0.48	290.62	158.20	94.63	20.84	44.6	20.8
Kalwy 2	8	T	hematite	26.7	68.6	10.2	45.2	10.42	2.45	9.86	1.29	6.19	1.02	2.29	0.26	1.41	0.19	186.08	95.30	67.93	11.36	32.9	2.5
Lelechów 6	13	O	hematite	27.7	58.6	7.4	28.6	5.69	1.17	5.09	0.78	4.44	0.85	2.38	0.34	2.17	0.31	145.52	86.30	40.55	10.49	23.9	12.8
Mozów 1	28	R	copper	22.4	46.0	5.7	22.8	4.52	0.98	4.16	0.62	3.36	0.64	1.70	0.23	1.39	0.20	114.70	68.40	32.46	7.52	18.7	7.2
Mozów 1	29	T	hematite	34.6	86.9	13.1	56.6	11.23	2.50	10.37	1.39	7.30	1.37	3.62	0.45	2.53	0.37	232.33	121.50	80.70	15.64	43.0	9.5
Święciechowa 2	5	R	Pb-Zn	29.2	56.2	6.8	25.3	4.84	0.93	3.84	0.53	2.87	0.56	1.61	0.24	1.54	0.23	134.69	85.40	34.91	7.05	15.3	11.1
Święciechowa 2	6	R	pyrite	14.7	30.7	4.1	17.3	4.16	1.01	3.73	0.50	2.48	0.43	1.11	0.15	0.92	0.14	81.43	45.40	26.20	5.23	12.3	4.1
Święciechowa 2	7	T	hematite	12.0	29.5	4.7	21.8	5.84	1.57	5.48	0.76	3.66	0.59	1.43	0.18	1.09	0.15	88.75	41.50	34.69	7.10	17.0	3.4
Wilcze 2	6	R	Pb-Zn	31.4	62.9	8.0	33.1	6.59	1.30	5.87	0.82	4.31	0.77	1.94	0.25	1.44	0.21	158.90	94.30	46.86	8.92	21.2	5.7
Wilcze 2	7	R	copper	17.2	42.2	6.1	24.8	4.89	0.95	4.24	0.62	3.33	0.61	1.59	0.21	1.25	0.18	108.17	59.40	34.88	7.17	17.4	2.7
Zdrada IG 8	3	R	pyrite	28.1	67.8	8.5	33.3	6.07	1.18	4.87	0.66	3.40	0.62	1.67	0.23	1.44	0.21	158.05	95.90	45.42	7.57	17.1	9.4
Żabno 2	13	R	copper	37.0	94.4	13.1	60.4	15.14	3.17	12.83	1.61	7.52	1.28	3.20	0.41	2.43	0.34	252.83	131.40	91.54	15.18	37.8	12.0
Żabno 2	14	T	hematite	43.3	96.5	12.1	50.2	14.73	3.31	12.95	2.30	12.41	2.07	5.22	0.67	3.83	0.49	260.08	139.80	81.19	24.69	40.4	16.7

LREE (La-Ce), MREE (Nd-Gd), HREE (Dy-Lu)