

Appendix 2 Electron Microprobe raw data

The information in tables A2.1 to A2.4 presents the results for samples analysed at the NERC tephrochronology facility at Edinburgh University as outlined in section 6.10. The figures represent the weight percentage of the nine analysed oxides and their cumulative total for each sample. The results are not normalised.

Table A2.1 S22/4 Major element geochemistry of samples not used in further analysis.

Sample	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total
S22/4-2	39.34	0.42	7.66	1.32	0	0.35	0.76	2.51	1.7	54.06
S22/4-3	53.28	0.29	10.7	2.15	0.06	0.55	1.17	2.91	2.37	73.48
S22/4-4	52.1	0.23	10.16	2.48	0.04	0.34	1.04	3.12	2.39	71.9
S22/4-5	42.33	0.17	8.52	1.74	0.03	0.36	0.81	2.56	1.78	58.3
S22/4-11	64.25	0.23	12.5	1.94	0.07	0.35	1.32	3.44	2.86	86.96
S22/4-12	65.71	0.2	12.59	1.92	0.05	0.36	1.33	3.82	2.91	88.89
S22/4-17	59.47	0.22	11.33	1.72	0.01	0.41	1.18	3.39	2.65	80.38
S22/4-8	65	0.28	12.26	1.91	0.04	0.34	1.42	3.59	2.88	87.72
S22/4-20	52.74	0.23	10.71	1.96	0.07	0.67	1.02	3.17	2.47	73.04
S22/4-21	57.51	0.21	8.71	2.22	0.04	0.57	1.92	3.46	2.83	77.47
S22/4-19	67.84	0.25	12.86	2.01	0.05	0.33	1.25	3.76	3.27	91.62

Table A2.2 S44/1 Major element geochemistry of samples not used in further analysis.

Sample	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total
S44/1-5	66.24	0.29	12.75	1.77	0.04	0.32	1.41	3.65	3.24	89.71
S44/1-11	17.49	0.04	3.75	0.69	0.01	0.1	0.41	0.65	1.09	24.23
S44/1-12	38.09	0.11	7.28	1.22	0.03	0.33	0.84	2.3	2.31	52.51
S44/1-13	58.76	0.21	11.27	1.59	0.04	0.23	1.09	3.4	2.93	79.52

Table A2.3 S46/1 Major element geochemistry of samples not used in further analysis.

Sample	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total
S46/1-8	99.54	0	0.04	0.01	0	0.02	0.01	0	0.01	99.63
S46/1-5	67.65	0.07	10.84	0.42	0.05	0.09	0.56	2.89	4.53	87.1
S46/1-6	57.81	0.02	9.32	0.4	0.08	0.05	0.43	2.13	3.49	73.73
S46/1-17	69.26	0.09	10.81	0.4	0.06	0.05	0.44	2.52	4.79	88.42

Table A2.4 S47/2 Major element geochemistry of samples not used in further analysis.

Sample	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total
S47/2-6	61.74	0.03	22.13	0.48	0.06	0.08	5.99	6.8	0.81	98.12
S47/2-14	65.12	0.21	11.93	1.65	0.08	0.25	0.95	3.78	3.12	87.09
S47/2-18	0.07	0	0	0	0	0	0.04	0.25	1.26	1.62