

Supplementary Table S1. Composition of the major elements in the all samples.

Oxides (%)	SiO₂	Al₂O₃	Na₂O	K₂O	CaO	MgO	Fe₂O₃	TiO₂
MU-OR-01	56.23	18.14	3.32	2.40	10.12	2.56	5.67	1.56
MU-OR-02	65.18	16.22	4.13	2.23	5.12	2.55	2.09	1.48
MU-OR-03	57.33	19.21	2.98	3.15	8.35	2.89	4.34	1.25
MU-OR-04	58.19	18.77	4.45	3.11	6.57	3.23	5.65	1.03
MU-OR-05	64.33	19.22	3.16	2.28	4.89	2.19	3.56	0.37
MU-OR-06	53.18	18.34	1.48	3.46	3.27	2.17	6.85	0.25
MU-OR-07	62.21	17.19	3.88	3.80	3.32	2.07	6.28	1.25
MU-OR-08	62.25	19.37	3.05	3.54	2.45	2.99	5.25	2.10
MU-OR-09	59.56	18.32	3.46	3.98	5.16	2.78	5.99	1.75
MU-OR-10	71.94	15.26	0.88	2.15	3.12	2.07	3.55	1.03
MU-OR-11	70.73	15.99	1.02	2.24	3.35	1.84	4.16	0.67
MU-OR-12	62.39	23.15	1.48	3.45	2.88	0.27	6.33	0.05
MU-OR-13	57.42	17.24	4.25	3.67	5.67	3.88	5.78	2.09
MU-OR-14	58.21	17.44	4.70	3.16	4.76	3.56	5.67	2.50
MU-OR-15	71.36	15.87	0.67	2.43	3.06	1.43	4.35	0.83
MU-OR-16	60.40	18.19	4.09	4.10	3.21	3.86	4.14	1.87
MU-OR-17	61.32	17.54	2.67	3.50	4.06	3.56	4.36	2.99
MU-OR-18	62.21	18.09	2.05	3.85	3.87	2.17	5.22	2.54
MU-OR-19	66.36	16.57	2.87	2.48	2.19	1.78	6.78	0.97
MU-OR-20	66.78	17.19	2.43	2.67	3.05	2.10	5.22	0.56
MU-OR-21	67.39	17.32	3.19	2.05	2.19	3.12	4.37	0.37
MU-OR-22	63.14	17.21	4.15	3.16	4.26	3.34	2.15	2.41
MU-OR-23	67.72	17.63	0.28	1.81	8.12	0.74	3.52	0.18
MU-OR-24	61.50	16.54	3.22	3.75	4.32	3.81	4.36	2.50
MU-OC-01	81.33	13.61	1.23	2.31	0.46	0.13	0.81	0.12
MU-OC-02	84.43	11.66	0.79	2.13	0.44	0.11	0.37	0.07
MU-OC-03	72.51	14.77	0.51	0.98	0.34	0.17	10.51	0.21
MU-OC-04	70.06	18.36	0.84	2.86	3.01	0.25	4.24	0.38
MU-OC-05	84.59	11.01	1.26	2.29	0.42	0.09	0.28	0.06
MU-OC-06	74.62	18.08	1.59	2.86	0.49	0.28	1.82	0.26
MU-OC-07	80.56	13.35	1.23	2.06	0.48	0.11	1.89	0.32
MU-OC-08	73.08	18.21	1.66	3.29	0.82	0.27	2.39	0.28
MU-OC-09	72.24	17.01	1.68	3.54	0.67	0.35	4.03	0.48
MU-OC-10	70.92	19.83	1.58	2.94	1.09	1.05	2.36	0.23
MU-OC-11	77.46	14.41	2.59	2.98	1.12	0.31	1.02	0.11
MU-OC-12	69.74	19.69	1.78	3.89	0.71	0.31	3.44	0.44
MU-OC-13	71.74	18.72	1.34	2.99	0.71	0.57	3.51	0.42
MU-OR-25	71.20	19.33	1.78	3.81	0.52	0.18	2.82	0.36
MU-OC-26	69.92	18.57	1.63	3.34	1.21	1.64	3.33	0.36

MU-OR-26	65.20	18.71	1.26	2.31	7.79	0.73	3.68	0.32
MU-OC-27	72.08	18.56	1.93	3.13	0.76	0.28	2.31	0.23
MU-OR-27	74.14	17.07	2.56	3.31	0.81	0.26	1.66	0.19
MU-OC-28	70.14	17.13	2.87	4.37	0.78	0.28	3.88	0.55
MU-OR-28	72.48	17.08	1.88	3.43	0.65	0.27	3.74	0.47
MU-OC-29	75.87	16.01	0.89	3.26	2.93	0.13	0.83	0.08
ESS01	77.06	15.84	1.54	3.05	0.36	0.13	1.21	0.27
ESM01	77.86	15.67	1.08	2.47	0.18	0.08	2.23	0.43
MU-OC-22	81.49	2.15	3.94	4.76	0.58	2.16	4.62	0.30
MU-OC-23	74.05	8.63	0.88	2.27	9.02	1.60	3.36	0.19
MU-OC-24	69.63	16.55	2.85	4.10	0.86	1.08	4.58	0.35
MU-OC-25	69.70	1.80	2.60	4.18	0.77	1.78	4.80	0.37
MU-OC-26	80.69	11.58	1.06	1.97	0.97	0.68	2.85	0.20
MU-OC-27	60.80	26.91	2.59	4.41	0.87	1.16	3.11	0.15
MU-OC-28	61.56	19.83	1.21	4.21	0.73	5.75	6.36	0.35
MU-OC-29	69.22	17.90	2.68	3.55	0.85	1.65	3.82	0.33
MU-OC-30	63.70	21.65	2.50	4.33	1.21	1.64	4.68	0.29
MU-OC-31	74.52	17.98	1.82	1.81	<0.01	0.65	3.00	0.22
MU-OC-32	70.61	16.44	3.11	3.23	<0.01	2.47	3.82	0.32
MU-OC-33	51.28	19.10	3.27	3.94	11.36	5.25	5.44	0.36
MU-OC-34	60.92	24.10	2.89	3.59	0.83	1.87	5.41	0.39
MU-OC-35	64.94	26.59	1.70	1.65	0.92	0.76	3.29	0.15
MU-OC-36	63.10	21.20	2.05	4.22	1.87	2.58	4.70	0.28
MU-OC-37	63.40	18.79	4.42	4.79	1.17	3.10	4.02	0.31
MU-OC-38	53.16	21.60	7.87	4.58	3.50	4.31	4.63	0.35
MU-OC-39	62.08	18.63	3.96	4.24	1.06	4.44	5.21	0.38
MU-OR-30	72.01	16.53	1.58	3.61	0.64	1.79	3.48	0.27
MU-OR-31	55.51	24.27	3.08	4.24	2.22	4.67	5.65	0.36