

Table 1: Results of chemical analyses (by XRF) of basaltic rocks

Samples	2	04A	05B	05E	06B	10	12	13A	15	16
Coordinates	-48.346	-48.359	-48.431	-48.432	-48.746	-48.929	-48.892	-48.816	-48.816	-48.395
(Datum SAD 69)	-23.163	-23.160	-22.790	-22.792	-22.954	-23.093	-23.149	-23.173	-23.166	-23.118
Elevation (m)	620	674	648	675	677	736	733	623	658	786
SiO ₂	52.36	51.05	50.12	48.72	50.22	50.45	50.17	50.36	50.51	49.53
TiO ₂	3.58	3.56	3.86	3.11	3.87	3.88	3.74	3.88	3.87	3.62
Al ₂ O ₃	12.95	13.05	12.29	12.95	12.19	12.26	12.52	12.25	12.28	12.48
Fe ₂ O ₃	12.79	12.72	15.29	14.71	15.18	14.97	15.45	15.13	15.15	15.43
MnO	0.16	0.14	0.18	0.19	0.21	0.26	0.25	0.22	0.21	0.22
MgO	4.22	4.86	3.73	5.66	4.10	4.28	4.57	3.76	3.73	4.36
CaO	7.14	7.81	8.03	9.72	7.93	7.73	8.25	8.10	8.04	8.40
Na ₂ O	2.95	2.63	2.58	2.32	2.59	2.58	2.67	2.50	2.62	2.61
K ₂ O	2.23	2.27	1.46	1.03	1.77	1.76	1.46	1.51	1.58	1.44
P ₂ O ₅	0.56	0.51	0.62	0.32	0.61	0.64	0.45	0.63	0.63	0.44
Total	98.93	98.61	98.16	98.72	98.67	98.81	99.53	98.33	98.62	98.52
LOI	0.62	0.81	1.51	0.57	0.51	0.51	0.00	0.59	0.59	0.54
Ba	675	608	544	329	588	521	450	516	552	426
La	40	44	48	< 28	37	40	35	42	41	37
Ce	90	120	74	52	86	108	78	91	114	71
Co	26	30	32	40	34	35	40	45	39	38
Cr	33	63	< 13	84	< 13	< 13	< 13	< 13	< 13	< 13
Cu	122	99	167	235	223	222	156	167	148	139
Ga	20	19	23	20	22	24	20	20	21	21
Nb	28	27	28	18	27	28	23	29	30	23
Nd	64	56	55	40	65	63	69	78	69	51
Ni	40	52	24	68	33	38	36	27	24	28
Pb	10	11	17	16	16	16	11	8	10	18
Rb	46	51	29	19	36	38	29	34	32	27
Sc	24	26	31	32	30	30	31	32	30	30
Sr	654	669	496	463	465	459	457	488	487	498
Th	10	9	16	14	14	15	8	< 7	8	15
U	3	3	9	9	9	11	3	3	4	8
V	315	295	395	457	431	410	461	402	394	464
Y	35	34	40	28	40	42	37	40	45	35
Zn	116	112	139	112	133	132	130	143	139	125
Zr	304	290	297	185	290	293	242	293	295	247
Ti/Zr	70	74	78	101	80	80	93	79	79	88
Ti/Y	607	637	578	656	587	555	612	583	520	619
Zr/Y	9	9	7	7	7	7	7	7	7	7
Sr/Y	19	20	12	16	12	11	12	12	11	14
Ba/Y	19	18	14	12	15	12	12	13	12	12
P ₂ O ₅	0.56	0.51	0.62	0.32	0.61	0.64	0.45	0.63	0.63	0.44
MgO/TiO ₂	1.2	1.4	1.0	1.8	1.1	1.1	1.2	1.0	1.0	1.2

Table 1: Continuation

Samples	18	25	27	29	30	31	33	35	36
Coordinates	-48.401	-48.838	-48.731	-48.695	-48.132	-48.042	-48.043	-48.025	-48.023
(Datum SAD 69)	-23.110	-22.574	-22.641	-22.626	-22.290	-22.397	-22.402	-22.429	-22.427
Elevation (m)	903	549	584	567	590	733	789	780	762
SiO ₂	50.05	50.33	49.96	49.78	49.60	51.80	49.73	50.10	51.92
TiO ₂	3.85	3.74	3.38	3.76	3.86	3.29	3.85	3.80	3.28
Al ₂ O ₃	12.26	12.58	12.85	12.46	12.92	12.56	12.78	12.72	12.56
Fe ₂ O ₃	15.25	14.80	14.64	15.05	14.57	14.27	14.35	14.29	14.24
MnO	0.22	0.22	0.20	0.21	0.19	0.18	0.19	0.22	0.19
MgO	3.90	4.60	4.59	4.55	4.45	3.88	4.47	4.16	3.95
CaO	7.95	8.23	8.59	8.33	8.36	7.40	8.37	8.00	7.41
Na ₂ O	2.56	2.61	2.58	2.63	2.57	2.67	2.67	2.60	2.70
K ₂ O	1.47	1.52	1.24	1.38	1.43	1.82	1.34	1.73	1.91
P ₂ O ₅	0.67	0.45	0.40	0.50	0.46	0.44	0.55	0.55	0.44
Total	98.17	99.08	98.43	98.65	98.40	98.31	98.31	98.17	98.60
LOI	0.76	0.51	0.73	0.48	0.87	0.86	0.92	0.66	0.24
Ba	565	447	462	413	420	522	474	491	516
La	45	28	42	< 28	< 28	40	42	31	41
Ce	76	80	80	43	56	85	55	98	66
Co	40	34	39	38	30	28	26	33	29
Cr	< 13	< 13	20	< 13	< 13	< 13	< 13	18	< 13
Cu	160	151	172	167	59	98	49	49	117
Ga	22	23	22	24	23	21	24	21	22
Nb	29	23	23	23	22	25	25	26	26
Nd	67	33	42	42	48	70	47	64	52
Ni	25	29	42	36	30	23	26	30	24
Pb	15	15	17	18	13	17	14	16	16
Rb	35	31	23	28	28	36	24	32	40
Sc	28	29	31	33	31	26	28	29	30
Sr	493	487	494	454	493	458	531	515	452
Th	15	14	14	15	13	12	14	14	14
U	7	10	9	9	9	8	10	7	9
V	388	442	485	486	450	394	391	418	385
Y	40	34	32	38	35	40	36	36	37
Zn	144	130	120	127	121	121	122	127	122
Zr	300	244	244	233	247	283	264	271	289
Ti/Zr	77	92	83	97	94	70	87	84	68
Ti/Y	574	657	635	598	657	488	635	628	528
Zr/Y	7	7	8	6	7	7	7	7	8
Sr/Y	12	14	15	12	14	11	15	14	12
Ba/Y	14	13	14	11	12	13	13	14	14
P ₂ O ₅	0.67	0.45	0.40	0.50	0.46	0.44	0.55	0.55	0.44
MgO/TiO ₂	1.0	1.2	1.4	1.2	1.2	1.2	1.2	1.1	1.2

Table 1: Continuation

Samples	38	40	44	45	49A	49B	50	52	53A
Coordinates	-48.112	-47.881	-47.889	-47.886	-47.927	-47.927	-47.929	-48.542	-48.541
(Datum SAD 69)	-22.287	-22.372	-22.390	-22.393	-22.518	-22.518	-22.517	-22.515	-22.516
Elevation (m)	627	843	883	899	878	851	848	434	441
SiO ₂	50.96	50.99	50.07	48.69	50.16	50.35	50.18	47.54	48.75
TiO ₂	3.52	3.51	3.82	3.11	3.82	3.90	3.83	3.22	3.16
Al ₂ O ₃	12.55	12.59	12.20	12.99	12.17	12.23	12.07	13.11	13.01
Fe ₂ O ₃	14.58	14.79	15.32	14.75	14.96	15.27	15.73	15.33	14.80
MnO	0.21	0.20	0.25	0.20	0.20	0.23	0.22	0.20	0.18
MgO	4.17	4.18	3.88	5.69	3.60	3.79	3.96	5.77	5.54
CaO	8.06	7.87	7.87	9.58	7.90	7.99	7.90	9.93	9.77
Na ₂ O	2.34	2.68	2.44	2.36	2.37	2.45	2.40	2.36	2.33
K ₂ O	1.43	1.77	1.74	1.13	1.72	1.64	1.60	1.11	0.90
P ₂ O ₅	0.50	0.45	0.61	0.33	0.62	0.66	0.68	0.34	0.33
Total	98.32	99.03	98.19	98.82	97.52	98.50	98.56	98.91	98.77
LOI	1.22	0.10	0.56	0.52	1.22	0.40	0.96	0.40	0.51
Ba	508	489	616	351	542	510	493	327	381
La	28	< 28	44	28	53	47	45	< 28	< 28
Ce	115	115	96	61	104	130	107	74	87
Co	27	35	36	42	39	37	34	43	38
Cr	< 13	18	< 13	83	< 13	< 13	< 13	92	96
Cu	66	137	161	204	162	162	154	228	217
Ga	21	21	23	21	23	21	20	18	19
Nb	25	24	29	18	30	29	29	19	17
Nd	52	47	64	35	65	72	70	53	58
Ni	23	26	25	65	23	25	22	67	65
Pb	8	8	17	14	16	8	8	8	7
Rb	21	35	44	25	40	38	41	18	15
Sc	27	28	29	32	31	30	30	32	37
Sr	572	472	520	461	500	498	499	445	464
Th	9	8	16	10	14	7	7	8	< 7
U	3	4	11	8	9	< 3	3	4	3
V	384	435	422	484	408	402	399	480	453
Y	40	35	41	31	41	41	41	29	28
Zn	127	125	140	117	142	145	140	117	115
Zr	284	266	301	185	302	299	296	185	186
Ti/Zr	74	79	76	100	76	78	78	104	102
Ti/Y	533	605	565	605	560	565	560	665	671
Zr/Y	7	8	7	6	7	7	7	6	7
Sr/Y	14	14	13	15	12	12	12	15	16
Ba/Y	13	14	15	11	13	12	12	11	14
P ₂ O ₅	0.50	0.45	0.61	0.33	0.62	0.66	0.68	0.34	0.33
MgO/TiO ₂	1.2	1.2	1.0	1.8	0.9	1.0	1.0	1.8	1.8

Table 1: Continuation

Samples	54	59B	60	61B	63	65A	66A	66C	69
Coordinates	-48.542	-48.550	-48.548	-48.689	-48.360	-48.363	-49.078	-49.077	-48.550
(Datum SAD 69)	-22.501	-22.511	-22.510	-22.615	-22.934	-22.934	-21.604	-21.604	-22.123
Elevation (m)	454	471	464	539	693	721	359	403	545
SiO ₂	48.88	47.12	48.88	49.69	51.49	51.43	49.07	49.34	49.38
TiO ₂	3.12	3.26	3.16	3.78	3.54	3.59	3.77	3.79	3.24
Al ₂ O ₃	12.93	13.30	12.90	12.48	13.13	13.06	12.19	12.25	13.09
Fe ₂ O ₃	14.65	15.06	14.96	15.22	12.66	12.63	15.71	15.53	13.97
MnO	0.15	0.19	0.19	0.20	0.16	0.14	0.20	0.21	0.19
MgO	5.27	5.80	5.50	4.47	4.40	4.98	4.40	4.42	5.43
CaO	9.54	10.24	9.83	8.45	7.80	7.39	8.70	8.75	9.74
Na ₂ O	2.24	2.16	2.35	2.64	2.70	2.60	2.58	2.55	2.34
K ₂ O	0.96	0.51	0.92	1.39	2.09	2.35	1.47	1.44	0.91
P ₂ O ₅	0.32	0.33	0.33	0.49	0.52	0.51	0.48	0.48	0.36
Total	98.06	97.97	99.02	98.82	98.49	98.68	98.57	98.77	98.66
LOI	1.44	1.43	0.20	0.67	0.69	0.95	0.48	0.05	0.34
Ba	355	350	334	422	648	638	448	438	395
La	< 28	< 28	< 28	36	42	36	36	35	28
Ce	58	42	80	< 35	88	96	68	73	81
Co	35	41	40	32	28	32	38	34	40
Cr	80	83	95	16	70	53	54	49	119
Cu	206	230	220	156	150	141	185	163	205
Ga	21	22	18	23	20	20	21	22	18
Nb	18	18	18	22	27	28	25	24	19
Nd	35	35	63	23	74	69	44	43	56
Ni	65	69	63	32	59	56	43	42	72
Pb	14	14	8	15	8	7	18	17	6
Rb	15	6	14	28	44	50	30	29	21
Sc	35	36	32	32	24	24	32	33	33
Sr	477	484	460	456	689	664	461	462	453
Th	14	15	< 7	14	9	10	15	16	< 7
U	9	12	3	9	3	< 3	10	9	3
V	473	492	452	480	316	319	466	458	467
Y	31	27	28	36	34	36	37	37	29
Zn	116	119	113	125	120	115	129	133	115
Zr	186	184	186	228	287	290	244	244	199
Ti/Zr	100	106	102	99	74	74	93	93	97
Ti/Y	612	724	669	635	634	606	614	608	661
Zr/Y	6	7	7	6	9	8	7	7	7
Sr/Y	16	18	16	13	21	19	13	12	15
Ba/Y	12	13	12	12	19	18	12	12	13
P ₂ O ₅	0.32	0.33	0.33	0.49	0.52	0.51	0.48	0.48	0.36
MgO/TiO ₂	1.7	1.8	1.7	1.2	1.2	1.4	1.2	1.2	1.7

Table 1: Continuation

Samples	71	72A	72B	74	75	76	77	83	84A
Coordinates	-48.549	-48.550	-48.550	-48.362	-48.356	-48.358	-48.367	-48.369	-48.371
(Datum SAD 69)	-22.114	-22.113	-22.113	-22.075	-22.082	-22.121	-22.124	-22.943	-22.943
Elevation (m)	551	528	546	567	602	609	546	826	828
SiO ₂	49.44	50.13	49.18	51.11	49.86	49.32	50.94	51.09	50.07
TiO ₂	3.23	3.86	3.26	3.48	3.81	3.24	3.46	3.86	3.87
Al ₂ O ₃	13.09	12.18	13.05	12.52	12.62	13.05	12.56	12.75	12.69
Fe ₂ O ₃	13.57	15.24	14.24	14.60	14.62	14.03	14.90	14.13	14.44
MnO	0.18	0.21	0.19	0.19	0.22	0.20	0.23	0.19	0.20
MgO	5.07	3.81	5.44	4.26	4.48	5.05	4.07	4.33	4.47
CaO	9.87	7.96	9.79	7.86	8.29	9.80	8.16	8.40	8.30
Na ₂ O	2.26	2.66	2.33	2.67	2.54	2.32	2.69	2.60	2.78
K ₂ O	0.90	1.74	0.96	1.76	1.50	0.97	1.54	1.42	1.58
P ₂ O ₅	0.36	0.63	0.36	0.44	0.56	0.36	0.44	0.56	0.56
Total	97.97	98.41	98.80	98.88	98.50	98.34	99.00	99.33	98.97
LOI	1.04	0.53	0.73	0.36	1.13	0.93	0.92	0.90	0.22
Ba	440	514	386	450	543	571	505	493	466
La	36	45	< 28	39	45	16	38	40	30
Ce	55	118	80	69	94	79	101	101	85
Co	43	39	42	35	30	42	36	33	32
Cr	111	< 13	124	19	22	120	28	38	14
Cu	205	155	200	99	49	210	140	50	51
Ga	21	19	18	21	20	18	20	21	22
Nb	20	29	19	24	24	20	25	25	25
Nd	40	66	52	54	65	51	69	53	68
Ni	68	27	81	24	27	68	26	29	26
Pb	16	9	8	8	7	6	9	7	8
Rb	24	32	19	33	31	27	29	23	29
Sc	32	29	33	29	28	33	29	28	30
Sr	480	476	464	465	504	459	485	520	506
Th	12	7	< 7	7	7	< 7	8	< 7	9
U	7	5	3	4	4	3	5	< 3	< 3
V	471	408	441	395	399	404	404	414	422
Y	31	40	30	35	35	31	39	36	35
Zn	117	136	115	135	121	118	125	121	127
Zr	204	290	198	266	261	201	275	263	260
Ti/Zr	95	80	99	78	88	97	75	88	89
Ti/Y	631	577	662	597	647	628	534	645	661
Zr/Y	7	7	7	8	7	6	7	7	7
Sr/Y	16	12	16	13	14	15	12	14	14
Ba/Y	14	13	13	13	15	18	13	14	13
P ₂ O ₅	0.36	0.63	0.36	0.44	0.56	0.36	0.44	0.56	0.56
MgO/TiO ₂	1.6	1.0	1.7	1.2	1.2	1.6	1.2	1.1	1.2

Table 1: Continuation

Samples	84B	89A	89C	90	91B	98	106	107A	107B
Coordinates	-48.372	-47.703	-47.701	-48.174	-48.176	-48.173	-48.199	-48.198	-48.201
(Datum SAD 69)	-22.944	-22.271	-22.272	-22.142	-22.148	-22.054	-22.500	-22.502	-22.512
Elevation (m)	849	822	806	590	623	714	792	752	649
SiO ₂	49.61	50.44	50.02	50.67	51.00	49.77	50.11	50.22	49.97
TiO ₂	3.24	3.86	3.71	3.59	3.46	3.69	3.90	3.90	3.71
Al ₂ O ₃	13.12	12.89	12.58	12.52	12.58	12.48	12.73	12.75	12.64
Fe ₂ O ₃	13.60	13.72	14.82	14.83	14.46	15.91	14.53	14.39	15.23
MnO	0.18	0.18	0.20	0.21	0.20	0.17	0.21	0.20	0.23
MgO	5.08	4.32	4.23	4.16	3.83	4.12	4.40	4.48	4.35
CaO	9.87	8.36	8.40	7.99	7.70	8.23	8.31	8.30	8.61
Na ₂ O	2.23	2.70	2.30	2.60	2.39	2.59	2.67	2.74	2.68
K ₂ O	0.89	1.66	1.47	1.54	2.10	1.52	1.55	1.58	1.42
P ₂ O ₅	0.36	0.57	0.49	0.49	0.53	0.45	0.56	0.57	0.45
Total	98.19	98.70	98.22	98.59	98.25	98.92	98.97	99.12	99.29
LOI	0.91	0.69	0.92	0.88	1.03	0.58	0.92	0.46	0.04
Ba	544	466	472	474	495	432	452	451	454
La	40	44	44	46	35	30	42	32	31
Ce	74	80	87	105	99	94	87	104	107
Co	35	51	31	28	27	37	31	33	38
Cr	15	< 13	< 13	14	< 13	< 13	23	18	< 13
Cu	55	68	67	67	61	135	48	43	147
Ga	23	23	24	19	21	20	20	20	21
Nb	25	24	23	24	25	22	25	26	23
Nd	41	48	70	63	70	64	61	63	61
Ni	26	23	24	22	21	27	25	26	30
Pb	15	18	14	7	11	7	8	8	9
Rb	26	31	24	38	48	28	27	30	23
Sc	29	31	28	32	28	30	29	28	33
Sr	523	460	528	490	470	483	493	507	495
Th	15	12	13	8	8	7	7	7	8
U	9	6	8	3	4	4	3	4	4
V	447	436	450	386	366	422	401	402	503
Y	36	38	37	38	40	35	35	36	34
Zn	122	127	128	131	127	119	120	123	131
Zr	275	269	264	275	291	241	256	261	245
Ti/Zr	71	86	84	78	71	92	91	90	91
Ti/Y	538	610	601	563	520	637	667	656	654
Zr/Y	8	7	7	7	7	7	7	7	7
Sr/Y	14	12	14	13	12	14	14	14	15
Ba/Y	15	12	13	12	12	12	13	13	13
P ₂ O ₅	0.36	0.57	0.49	0.49	0.53	0.45	0.56	0.57	0.45
MgO/TiO ₂	1.6	1.1	1.1	1.2	1.1	1.1	1.1	1.2	1.2

Table 1: Continuation

Samples	111A	111B	111E	114	116	117	118	119	120
Coordinates	-48.353	-48.305	-48.352	-48.223	-48.303	-48.305	-48.320	-48.369	-48.438
(Datum SAD 69)	-22.248	-22.143	-22.247	-22.264	-22.143	-22.143	-22.117	-22.124	-22.123
Elevation (m)	659	651	651	499	647	667	662	480	559
SiO ₂	49.47	50.24	49.99	50.87	49.97	50.07	49.18	49.59	51.10
TiO ₂	3.85	3.85	3.92	3.37	3.70	3.86	3.26	3.63	3.96
Al ₂ O ₃	12.08	12.20	12.87	12.61	12.64	12.66	13.02	12.74	12.24
Fe ₂ O ₃	15.49	15.41	14.07	14.50	15.37	14.30	13.81	15.50	14.54
MnO	0.22	0.22	0.18	0.20	0.22	0.21	0.22	0.23	0.19
MgO	3.94	3.87	4.32	3.72	4.34	4.21	5.70	4.69	3.47
CaO	8.19	8.04	8.57	8.03	8.50	8.36	9.91	8.71	8.06
Na ₂ O	2.57	2.72	2.67	2.41	2.65	2.62	2.16	2.64	2.60
K ₂ O	1.33	1.48	1.39	1.40	1.47	1.49	0.92	1.37	1.81
P ₂ O ₅	0.62	0.63	0.57	0.55	0.45	0.57	0.36	0.41	0.64
Total	97.76	98.66	98.55	97.65	99.30	98.34	98.54	99.51	98.60
LOI	1.18	0.62	0.99	1.77	0.31	1.07	1.13	0.26	0.85
Ba	449	515	464	488	437	462	508	399	930
La	37	30	32	44	34	42	37	< 28	46
Ce	97	128	100	81	110	90	106	97	84
Co	37	33	30	22	39	30	48	41	33
Cr	< 13	< 13	35	< 13	< 13	31	131	< 13	< 13
Cu	162	143	49	66	148	49	213	132	159
Ga	20	20	20	24	20	22	19	20	20
Nb	29	29	25	25	22	25	20	21	29
Nd	67	71	62	58	69	56	49	60	66
Ni	24	22	26	20	30	25	76	34	24
Pb	7	7	7	15	12	7	5	10	11
Rb	31	37	25	31	26	25	22	25	32
Sc	30	29	28	25	31	28	35	33	29
Sr	568	497	539	622	487	510	463	489	523
Th	8	9	9	15	8	< 7	7	9	< 7
U	4	4	3	7	5	3	3	3	4
V	393	389	385	336	498	403	490	500	383
Y	39	40	36	40	35	35	30	33	41
Zn	142	137	123	131	130	121	118	124	141
Zr	290	294	264	296	244	264	200	228	299
Ti/Zr	80	79	89	68	91	88	98	95	79
Ti/Y	591	582	646	504	642	656	654	665	574
Zr/Y	7	7	7	7	7	7	7	7	7
Sr/Y	15	13	15	16	14	14	15	15	13
Ba/Y	11	13	13	12	13	13	17	12	23
P ₂ O ₅	0.62	0.63	0.57	0.55	0.45	0.57	0.36	0.41	0.64
MgO/TiO ₂	1.0	1.0	1.1	1.1	1.2	1.1	1.7	1.3	0.9

Table 1: Continuation

Samples	122	123A	125	128A	128B	131A	133	135	143
Coordinates	-48.443	-48.413	-48.342	-48.190	-48.190	-48.187	-48.122	-48.096	-47.888
(Datum SAD 69)	-22.121	-22.041	-22.065	-22.091	-22.091	-22.090	-22.078	-22.061	-22.390
Elevation (m)	586	530	585	710	710	686	634	591	844
SiO ₂	49.13	50.71	51.53	50.03	49.80	51.06	52.02	50.68	50.25
TiO ₂	3.27	3.59	3.42	3.79	3.66	3.67	3.52	3.73	3.87
Al ₂ O ₃	13.02	12.61	12.60	12.90	12.59	12.64	12.65	12.52	12.83
Fe ₂ O ₃	14.39	14.46	14.49	14.59	15.69	14.25	14.55	15.08	13.84
MnO	0.20	0.20	0.23	0.17	0.22	0.19	0.20	0.21	0.18
MgO	5.29	4.10	4.01	4.00	4.42	3.95	3.99	4.25	4.27
CaO	9.76	8.06	7.95	8.33	8.43	8.23	7.53	7.91	8.59
Na ₂ O	2.27	2.83	2.82	2.76	2.64	2.50	2.79	2.70	2.52
K ₂ O	1.12	1.10	1.72	1.55	1.47	1.56	1.79	1.58	1.41
P ₂ O ₅	0.36	0.49	0.44	0.45	0.45	0.52	0.50	0.50	0.57
Total	98.82	98.14	99.21	98.58	99.36	98.57	99.55	99.16	98.33
LOI	0.62	0.94	0.39	0.78	0.46	0.77	0.00	0.10	1.62
Ba	365	488	493	459	433	520	500	438	465
La	32	45	< 28	33	28	28	50	29	37
Ce	97	66	101	105	75	95	80	97	78
Co	38	35	33	40	38	36	31	38	32
Cr	117	< 13	15	< 13	20	< 13	23	< 13	< 13
Cu	187	64	130	224	243	67	61	68	47
Ga	18	23	19	20	20	22	20	21	25
Nb	20	24	25	23	23	23	26	23	25
Nd	63	51	72	61	62	56	80	57	60
Ni	75	24	24	30	27	24	23	23	25
Pb	7	16	9	9	12	8	11	7	14
Rb	22	29	34	27	28	35	35	32	27
Sc	31	29	29	33	30	30	28	29	27
Sr	459	697	472	498	483	493	448	452	535
Th	< 7	15	7	7	< 7	9	9	< 7	14
U	< 3	7	5	4	4	5	4	< 3	7
V	435	391	388	482	482	378	399	415	405
Y	30	39	38	34	34	41	41	38	36
Zn	114	128	124	162	126	132	128	128	125
Zr	199	280	277	245	244	267	292	263	268
Ti/Zr	99	77	74	93	90	82	72	85	87
Ti/Y	656	550	545	671	638	537	519	593	643
Zr/Y	7	7	7	7	7	7	7	7	7
Sr/Y	15	18	13	15	14	12	11	12	15
Ba/Y	12	12	13	14	13	13	12	12	13
P ₂ O ₅	0.36	0.49	0.44	0.45	0.45	0.52	0.50	0.50	0.57
MgO/TiO ₂	1.6	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1

Table 1: Continuation

Samples	144	148A	148B	149	150A	151A	152A	152B1	152C1
Coordinates	-47.885	-48.085	-48.085	-48.092	-48.618	-48.087	-48.173	-48.787	-48.171
(Datum SAD 69)	-22.388	-22.061	-22.061	-22.061	-22.261	-21.881	-21.869	-22.358	-21.869
Elevation (m)	854	576	571	560	501	659	625	632	621
SiO ₂	50.23	50.03	51.09	49.88	49.84	50.57	49.81	50.27	49.06
TiO ₂	3.86	3.66	3.58	2.44	3.72	3.88	3.87	3.85	3.21
Al ₂ O ₃	12.21	12.57	12.58	12.68	12.43	12.22	12.00	12.21	12.90
Fe ₂ O ₃	15.44	14.92	14.66	15.06	15.16	15.10	15.54	15.31	14.32
MnO	0.21	0.22	0.20	0.20	0.20	0.21	0.21	0.22	0.19
MgO	3.77	4.39	4.06	5.23	4.35	3.84	3.66	3.64	5.06
CaO	7.88	7.94	7.92	9.22	8.34	7.71	7.92	7.98	9.75
Na ₂ O	2.52	2.51	2.73	2.27	2.58	2.56	2.72	2.77	2.49
K ₂ O	1.57	1.46	1.36	1.03	1.46	1.81	1.43	1.34	0.98
P ₂ O ₅	0.64	0.48	0.50	0.29	0.45	0.64	0.62	0.62	0.36
Total	98.33	98.17	98.68	98.30	98.53	98.54	97.78	98.20	98.33
LOI	1.01	1.20	0.53	0.63	0.47	0.62	0.90	0.63	0.90
Ba	536	401	473	298	446	586	450	534	335
La	56	51	41	< 28	32	46	47	45	27
Ce	87	97	89	106	< 35	63	103	116	84
Co	35	36	31	39	36	35	35	42	40
Cr	< 13	< 13	< 13	115	< 13	< 13	< 13	< 13	113
Cu	165	71	63	270	142	159	158	161	201
Ga	22	21	21	17	22	23	19	19	17
Nb	30	22	24	16	24	29	29	30	20
Nd	56	65	68	46	40	47	77	60	63
Ni	23	23	24	59	32	26	23	23	72
Pb	20	6	8	7	19	19	9	9	8
Rb	36	29	29	22	30	38	45	33	26
Sc	30	30	28	37	32	30	28	31	32
Sr	506	441	469	268	470	472	471	466	442
Th	16	8	8	8	14	17	< 7	< 7	< 7
U	10	4	4	5	9	10	< 3	< 3	< 3
V	405	437	378	453	475	388	382	416	449
Y	42	36	38	35	35	42	41	40	29
Zn	144	130	132	118	137	134	135	145	113
Zr	304	254	280	174	249	302	292	294	199
Ti/Zr	76	86	77	84	90	77	79	78	97
Ti/Y	554	612	559	420	636	561	571	575	660
Zr/Y	7	7	7	5	7	7	7	7	7
Sr/Y	12	12	12	8	13	11	12	12	15
Ba/Y	13	11	12	9	13	14	11	13	11
P ₂ O ₅	0.64	0.48	0.50	0.29	0.45	0.64	0.62	0.62	0.36
MgO/TiO ₂	1.0	1.2	1.1	2.1	1.2	1.0	0.9	0.9	1.6

Table 1: Continuation

Samples	152D	153B	154A	154B	154D	154F	156A	156C	157A
Coordinates	-48.171	-48.746	-48.786	-48.786	-48.787	-48.787	-48.987	-48.987	-49.240
(Datum SAD 69)	-21.869	-22.144	-22.359	-22.359	-22.358	-22.358	-21.767	-21.767	-21.876
Elevation (m)	635	452	487	480	482	490	404	404	403
SiO ₂	49.17	50.28	50.37	50.07	49.69	50.31	49.14	49.31	50.49
TiO ₂	3.21	3.42	3.70	3.65	3.67	3.75	3.69	3.74	1.96
Al ₂ O ₃	13.00	12.96	12.53	12.39	12.51	12.12	12.17	12.31	13.22
Fe ₂ O ₃	13.62	14.45	15.38	15.22	15.50	15.77	15.85	15.22	14.09
MnO	0.22	0.24	0.20	0.20	0.21	0.17	0.20	0.20	0.21
MgO	5.33	4.53	4.51	3.98	4.02	3.72	4.41	4.20	5.56
CaO	9.77	8.69	8.28	8.58	8.46	7.50	8.54	8.77	10.00
Na ₂ O	2.28	2.61	2.72	2.64	2.59	2.60	2.51	2.45	2.53
K ₂ O	1.00	1.38	1.49	1.48	1.07	1.92	1.49	1.49	0.50
P ₂ O ₅	0.36	0.41	0.46	0.45	0.44	0.73	0.48	0.48	0.22
Total	97.96	98.96	99.64	98.66	98.16	98.60	98.48	98.17	98.78
LOI	0.70	0.32	0.18	0.47	0.96	0.67	0.42	1.02	0.58
Ba	382	478	422	424	490	502	454	758	297
La	< 28	29	< 28	40	33	50	36	33	< 28
Ce	76	76	81	86	100	96	41	71	20
Co	45	35	36	36	40	32	33	40	38
Cr	114	26	< 13	< 13	< 13	10	46	47	88
Cu	205	142	150	157	174	294	181	203	216
Ga	17	22	19	19	18	20	21	23	19
Nb	20	24	23	23	23	28	24	24	14
Nd	56	32	55	70	63	73	35	53	19
Ni	75	39	32	31	31	29	41	40	57
Pb	6	17	9	9	8	10	17	17	11
Rb	19	20	29	29	32	42	30	32	18
Sc	33	30	33	30	31	30	32	31	37
Sr	466	506	457	456	472	454	424	447	337
Th	< 7	17	7	< 7	< 7	< 7	16	16	12
U	< 3	9	3	3	< 3	< 3	11	11	8
V	450	466	473	475	481	383	450	495	417
Y	29	33	36	35	35	41	37	38	30
Zn	116	120	132	128	136	129	128	137	104
Zr	202	249	242	238	240	293	242	246	151
Ti/Zr	95	82	92	92	92	77	92	91	78
Ti/Y	663	623	626	630	629	549	603	588	399
Zr/Y	7	8	7	7	7	7	7	6	5
Sr/Y	16	15	13	13	13	11	12	12	11
Ba/Y	13	15	12	12	14	12	12	20	10
P ₂ O ₅	0.36	0.41	0.46	0.45	0.44	0.73	0.48	0.48	0.22
MgO/TiO ₂	1.7	1.3	1.2	1.1	1.1	1.0	1.2	1.1	2.8

Table 1: Continuation

Samples	157D	160	161A	162	163	164
Coordinates	-49.241	-48.870	-48.855	-48.726	-47.834	-47.832
(Datum SAD 69)	-21.876	-22.140	-22.153	-22.420	-22.068	-21.902
Elevation (m)	421	429	435	458	855	731
SiO ₂	50.32	49.54	49.90	49.57	49.59	52.31
TiO ₂	1.96	3.25	3.30	3.19	3.66	2.97
Al ₂ O ₃	13.24	12.58	12.72	13.05	12.85	13.38
Fe ₂ O ₃	14.06	15.47	15.25	14.02	15.33	14.59
MnO	0.21	0.23	0.23	0.20	0.21	0.19
MgO	5.59	4.56	4.55	5.43	4.57	3.03
CaO	10.05	8.59	8.73	9.65	8.61	7.60
Na ₂ O	2.26	2.60	2.61	2.35	2.71	3.11
K ₂ O	0.84	1.33	1.34	1.04	1.48	1.84
P ₂ O ₅	0.22	0.35	0.37	0.36	0.45	0.58
Total	98.74	98.50	98.99	98.86	99.46	99.60
LOI	0.70	0.46	0.36	0.48	0.55	0.41
Ba	320	434	430	416	532	583
La	30	31	28	32	21	37
Ce	< 35	70	68	74	73	90
Co	38	36	37	40	40	26
Cr	83	31	30	100	12	1
Cu	216	135	140	198	117	68
Ga	19	21	21	22	21	23
Nb	14	22	22	20	18	23
Nd	22	38	47	37	-	-
Ni	58	41	45	73	23	13
Pb	12	18	18	14	-	-
Rb	20	26	26	17	25	33
Sc	37	30	32	36	-	-
Sr	310	427	427	461	400	416
Th	10	15	13	14	-	-
U	9	10	10	7	-	-
V	425	470	477	451	446	309
Y	29	34	35	30	29	34
Zn	103	124	126	114	105	111
Zr	148	217	217	205	192	245
Ti/Zr	79	90	91	93	114	73
Ti/Y	406	573	560	636	757	524
Zr/Y	5	6	6	7	7	7
Sr/Y	11	13	12	15	14	12
Ba/Y	11	13	12	14	18	17
P ₂ O ₅	0.22	0.35	0.37	0.36	0.45	0.58
MgO/TiO ₂	2.9	1.4	1.4	1.7	1.2	1.0