

Table Appendix 1: Major element compositions of lithologies from Mulligan (MULDH001) reported by Ausquest

Sample #	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514
From (m)	902.2	903.82	904.8	916.51	920	920.67	921.16	925.1	936.1	940.2
To (m)	902.4	904	905	916.72	920.67	921.16	922	925.3	936.3	940.41
SiO ₂	36.08	56.49	47.74	43.07	41.61	37.79	40.14	49.15	37.14	61.06
TiO ₂	5.90	0.67	3.04	3.66	4.61	5.32	4.59	2.92	5.25	0.78
Al ₂ O ₃	9.35	21.80	17.10	13.10	11.10	7.94	9.83	16.30	8.75	18.20
Cr ₂ O ₃	0.07	0.00	0.00	0.06	0.09	0.09	0.11	0.00	0.07	0.00
V ₂ O ₅	0.12	0.01	0.03	0.05	0.07	0.11	0.07	0.03	0.11	0.00
FeO	17.50	2.72	9.81	11.50	11.80	16.50	12.20	9.81	17.20	3.73
MnO	0.20	0.06	0.20	0.19	0.16	0.19	0.17	0.18	0.20	0.06
MgO	10.20	1.13	3.80	9.02	10.80	11.10	12.50	3.61	11.40	0.67
CaO	14.60	2.34	7.30	10.90	13.00	16.90	13.80	7.10	14.20	1.89
Na ₂ O	1.28	5.64	4.47	3.05	1.96	0.77	1.63	4.11	1.29	4.86
K ₂ O	0.68	5.94	3.06	1.94	1.60	0.30	1.10	3.49	0.86	7.61
P ₂ O ₅	0.17	0.09	1.24	0.72	0.10	0.08	0.11	0.98	0.09	0.14
SO ₂	0.84	0.36	0.30	0.36	0.50	1.68	0.44	0.28	0.82	0.08
CO ₂	1.40	0.80	-0.10	0.60	1.00	0.70	1.20	0.40	1.00	0.40
Total C	0.39	0.26	0.06	0.17	0.28	0.23	0.36	0.14	0.28	0.16
TotOrg C	0.02	0.03	0.04	0.01	0.01	0.04	0.04	0.03	0.01	0.05
LOI	1.64	2.80	0.76	1.19	1.44	0.92	1.88	1.08	1.13	0.32
Total	100.44	101.14	98.84	99.58	100.13	100.65	100.17	99.61	99.80	100.02
Na ₂ O+K ₂ O	1.96	11.58	7.53	4.99	3.56	1.07	2.73	7.60	2.15	12.47
CaO/Al ₂ O ₃	1.56	0.11	0.43	0.83	1.17	2.13	1.40	0.44	1.62	0.10
MgO/CaO	0.70	0.48	0.52	0.83	0.83	0.66	0.91	0.51	0.80	0.35
SiO ₂ /Al ₂ O ₃	3.86	2.59	2.79	3.29	3.75	4.76	4.08	3.02	4.24	3.35
Fe/Mn	87.82	45.50	49.23	60.75	74.02	87.16	72.03	54.70	86.32	62.40
CaO wt. %	39.76	37.44	34.58	34.48	36.35	37.82	35.69	34.30	33.02	29.76
MgO wt. %	23.15	18.08	18.00	28.54	30.20	24.84	32.32	17.44	26.51	10.55
FeO+MnO%	37.09	44.48	47.42	36.98	33.45	37.35	31.99	48.26	40.47	59.69

Sample #	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524
From (m)	949.55	957.78	960.34	961.31	979.53	990.8	999.4	1010.1	1020.75	1030.57
To (m)	949.74	958	960.53	961.48	979.72	991	999.59	1010.32	1020.97	1030.76
SiO ₂	36.04	33.68	43.42	43.09	34.74	58.55	40.51	37.12	34.60	44.10
TiO ₂	5.86	6.64	3.71	3.66	6.52	1.22	4.46	6.10	5.96	3.98
Al ₂ O ₃	9.68	9.55	13.50	13.30	9.26	18.20	11.00	12.00	16.40	15.60
Cr ₂ O ₃	0.01	0.00	0.05	0.05	0.01	0.00	0.09	0.01	0.01	0.01
V ₂ O ₅	0.12	0.15	0.05	0.05	0.14	0.00	0.06	0.08	0.07	0.04
FeO	17.40	19.90	11.60	11.50	19.30	4.77	12.70	14.40	14.30	11.50
MnO	0.18	0.19	0.19	0.19	0.20	0.12	0.19	0.20	0.18	0.22
MgO	9.93	9.55	8.49	8.46	9.75	1.05	11.80	9.13	6.32	4.85
CaO	14.60	15.00	10.50	10.70	15.20	2.86	11.00	13.00	14.30	9.23
Na ₂ O	1.58	1.05	3.18	3.14	1.06	5.06	2.47	2.37	1.95	3.77
K ₂ O	0.87	0.53	2.15	2.07	0.57	6.41	2.00	1.76	1.00	2.70
P ₂ O ₅	0.16	0.16	0.72	0.72	0.14	0.27	0.60	0.94	2.05	1.22
SO ₂	1.16	1.24	0.28	0.40	1.06	0.10	0.36	0.50	0.42	0.40
CO ₂	1.20	0.90	0.30	0.80	0.80	0.50	0.70	0.50	1.00	0.40
Total C	0.36	0.25	0.11	0.23	0.23	0.15	0.19	0.18	0.27	0.13
TotOrg C	0.04	0.01	0.02	0.01	0.02	0.01	0.01	0.04	0.01	0.01
LOI	1.16	1.05	0.91	1.13	0.69	0.70	1.10	1.01	1.02	1.04
Total	100.35	99.86	99.18	99.50	99.69	99.97	99.24	99.35	99.86	99.20
Na ₂ O+K ₂ O	2.45	1.58	5.33	5.21	1.63	11.47	4.47	4.13	2.95	6.47
CaO/Al ₂ O ₃	1.51	1.57	0.78	0.80	1.64	0.16	1.00	1.08	0.87	0.59
MgO/CaO	0.68	0.64	0.81	0.79	0.64	0.37	1.07	0.70	0.44	0.53
SiO ₂ /Al ₂ O ₃	3.72	3.53	3.22	3.24	3.75	3.22	3.68	3.09	2.11	2.83
Fe/Mn	97.02	105.12	61.28	60.75	96.86	39.90	67.09	72.27	79.74	52.47
CaO wt. %	34.67	33.60	34.11	34.68	34.20	32.50	30.82	35.39	40.74	35.78
MgO wt. %	23.58	21.39	27.58	27.42	21.93	11.93	33.06	24.86	18.01	18.80
FeO+MnO%	41.75	45.00	38.30	37.89	43.87	55.57	36.12	39.75	41.25	45.43

Sample #	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534
From (m)	1040.58	1049.56	1059.76	1068.37	1082.3	1090.37	1096.78	1106	1116	1126.17
To (m)	1040.8	1049.75	1060	1068.59	1082.55	1090.6	1096.96	1106.25	1116.22	1126.42
SiO ₂	51.85	58.45	59.95	32.74	39.30	45.09	35.00	60.72	35.20	36.99
TiO ₂	2.42	0.95	1.13	6.38	5.01	3.17	7.89	0.92	6.07	6.18
Al ₂ O ₃	17.10	18.40	18.20	11.10	10.40	14.00	11.70	18.40	12.50	10.20
Cr ₂ O ₃	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.02
V ₂ O ₅	0.01	0.00	0.00	0.09	0.08	0.04	0.09	0.01	0.08	0.11
FeO	8.55	5.06	3.85	17.20	13.70	10.30	15.60	3.42	14.30	16.40
MnO	0.21	0.12	0.09	0.23	0.19	0.18	0.21	0.07	0.21	0.22
MgO	1.99	0.93	0.72	8.28	11.80	9.22	9.11	0.76	8.16	9.16
CaO	6.61	3.03	2.40	14.20	12.90	9.13	13.10	2.49	13.30	15.10
Na ₂ O	4.54	5.10	5.18	1.94	1.81	3.30	2.04	5.65	2.42	1.47
K ₂ O	4.04	6.26	6.94	1.24	1.42	3.07	1.29	6.20	1.78	0.76
P ₂ O ₅	0.66	0.24	0.18	3.02	0.24	0.53	0.89	0.18	2.94	0.26
SO ₂	0.16	0.18	0.08	0.84	0.46	0.14	0.98	0.08	0.72	0.76
CO ₂	0.60	0.50	0.60	0.80	0.80	0.20	0.90	0.40	0.60	1.20
Total C	0.21	0.18	0.16	0.23	0.21	0.06	0.24	0.12	0.16	0.33
TotOrg C	0.05	0.04	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00
LOI	0.52	0.78	0.75	1.08	1.08	0.75	1.12	0.65	0.90	1.30
Total	99.52	100.23	100.25	99.36	99.49	99.25	100.15	100.08	99.33	100.46
Na ₂ O+K ₂ O	8.58	11.36	12.12	3.18	3.23	6.37	3.33	11.85	4.20	2.23
CaO/Al ₂ O ₃	0.39	0.16	0.13	1.28	1.24	0.65	1.12	0.14	1.06	1.48
MgO/CaO	0.30	0.31	0.30	0.58	0.91	1.01	0.70	0.31	0.61	0.61
SiO ₂ /Al ₂ O ₃	3.03	3.18	3.29	2.95	3.78	3.22	2.99	3.30	2.82	3.63
Fe/Mn	40.86	42.32	42.94	75.06	72.37	57.43	74.56	49.04	68.35	74.82
CaO wt. %	38.08	33.15	33.99	35.58	33.43	31.67	34.46	36.94	36.98	36.94
MgO wt. %	11.46	10.18	10.20	20.75	30.58	31.98	23.96	11.28	22.69	22.41
FeO+MnO%	50.46	56.67	55.81	43.67	35.99	36.35	41.58	51.78	40.34	40.66

Sample #	2535	2536	2537	2593	2538	2539	2540	2541	2542	2543
From (m)	1138.8	1149.6	1157.37	1168.91	1177.16	1186.2	1188.28	1199.3	1201.21	1209.64
To (m)	1139.05	1149.82	1157.49	1169.16	1177.36	1186.57	1188.5	1199.5	1201.46	1209.89
SiO ₂	31.51	35.32	33.51	33.19	32.03	62.84	31.65	36.69	45.19	37.62
TiO ₂	7.51	5.94	6.51	6.67	6.93	0.56	7.50	5.81	3.74	5.94
Al ₂ O ₃	9.88	12.10	10.20	11.00	10.70	18.40	10.50	11.80	16.50	12.20
Cr ₂ O ₃	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01
V ₂ O ₅	0.08	0.07	0.08	0.07	0.07	0.01	0.08	0.07	0.04	0.09
FeO	17.40	16.20	18.40	14.90	15.00	2.36	16.80	16.10	11.00	14.50
MnO	0.25	0.25	0.28	0.22	0.22	0.05	0.23	0.27	0.22	0.21
MgO	8.74	7.19	8.00	8.91	8.96	0.81	8.59	8.11	4.60	8.78
CaO	15.30	13.10	14.80	14.90	15.20	2.14	14.50	13.20	8.54	12.80
Na ₂ O	1.57	2.36	1.66	1.88	1.73	6.27	1.78	2.28	4.07	2.35
K ₂ O	1.04	1.52	1.02	1.34	1.25	5.88	1.20	1.25	2.81	1.32
P ₂ O ₅	3.86	2.46	2.39	3.66	4.08	0.11	3.58	0.90	1.08	0.54
SO ₂	0.80	0.46	0.60	0.96	1.10	0.08	1.10	0.50	0.26	0.68
CO ₂	0.70	0.80	1.10	0.90	0.80	0.40	0.90	0.70	0.30	1.00
Total C	0.18	0.25	0.31	0.24	0.27	0.10	0.25	0.19	0.10	0.29
TotOrg C	0.00	0.02	0.02	0.00	0.04	0.00	0.00	0.01	0.02	0.01
LOI	0.84	1.02	0.88	1.13	1.44	0.49	0.93	1.28	0.78	1.61
Total	99.66	99.06	99.77	99.97	99.82	100.50	99.58	99.18	99.25	99.94
Na ₂ O+K ₂ O	2.61	3.88	2.68	3.22	2.98	12.15	2.98	3.53	6.88	3.67
CaO/Al ₂ O ₃	1.55	1.08	1.45	1.35	1.42	0.12	1.38	1.12	0.52	1.05
MgO/CaO	0.57	0.55	0.54	0.60	0.59	0.38	0.59	0.61	0.54	0.69
SiO ₂ /Al ₂ O ₃	3.19	2.92	3.29	3.02	2.99	3.42	3.01	3.11	2.74	3.08
Fe/Mn	69.86	65.04	65.96	67.98	68.43	47.37	73.31	59.85	50.18	69.30
CaO wt. %	36.70	35.66	35.68	38.27	38.60	39.93	36.14	35.03	35.06	35.27
MgO wt. %	20.96	19.57	19.29	22.89	22.75	15.11	21.41	21.52	18.88	24.19
FeO+MnO%	42.34	44.77	45.03	38.84	38.65	44.96	42.45	43.44	46.06	40.53

Sample #	2564	2565	2566	2567	2568	2569	2590	2591	2592	2576
From (m)	1303.1	1312.35	1320.62	1328.4	1335.25	1347.59	1353.35	1363.22	1369.38	1379.12
To (m)	1303.37	1312.57	1320.86	1328.67	1335.48	1347.84	1353.65	1363.5	1369.59	1379.34
SiO ₂	32.38	32.72	42.57	46.27	41.96	32.80	36.00	33.18	38.14	39.53
TiO ₂	6.85	6.83	4.41	3.55	4.67	6.79	6.11	6.47	5.37	4.79
Al ₂ O ₃	11.10	10.70	13.90	15.30	13.90	11.40	11.00	11.90	10.60	9.47
Cr ₂ O ₃	0.01	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.04	0.03
V ₂ O ₅	0.07	0.09	0.06	0.03	0.06	0.08	0.07	0.07	0.09	0.07
FeO	16.30	20.30	12.40	10.50	12.80	19.00	16.90	15.80	15.00	16.10
MnO	0.23	0.30	0.19	0.18	0.20	0.27	0.25	0.24	0.24	0.29
MgO	8.72	7.71	6.99	4.19	6.72	7.80	8.66	8.99	9.11	8.32
CaO	14.30	13.20	10.70	7.62	11.20	13.10	13.70	14.00	15.10	15.40
Na ₂ O	1.91	1.89	3.16	4.22	3.21	1.96	1.73	2.09	1.58	1.67
K ₂ O	1.30	1.10	2.28	3.89	1.96	1.28	1.07	1.38	0.84	0.70
P ₂ O ₅	3.56	2.08	0.80	1.25	0.88	1.92	0.39	2.71	0.30	0.51
SO ₂	0.88	0.76	0.44	1.42	0.46	0.72	0.66	0.72	0.44	0.52
CO ₂	1.00	0.80	0.40	0.70	0.70	1.20	1.60	0.40	1.30	0.80
Total C	0.32	0.21	0.10	0.21	0.20	0.34	0.44	0.13	0.35	0.24
TotOrg C	0.04	0.00	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.03
LOI	1.11	0.58	0.80	1.10	0.77	1.03	1.80	0.68	1.60	0.98
Total	100.08	99.26	99.21	100.45	99.70	99.71	100.38	98.79	100.09	99.46
Na ₂ O+K ₂ O	3.21	2.99	5.44	8.11	5.17	3.24	2.80	3.47	2.42	2.37
CaO/Al ₂ O ₃	1.29	1.23	0.77	0.50	0.81	1.15	1.25	1.18	1.42	1.63
MgO/CaO	0.61	0.58	0.65	0.55	0.60	0.60	0.63	0.64	0.60	0.54
SiO ₂ /Al ₂ O ₃	2.92	3.06	3.06	3.02	3.02	2.88	3.27	2.79	3.60	4.17
Fe/Mn	71.13	67.92	65.50	58.55	64.24	70.63	67.85	66.08	62.73	55.72
CaO wt. %	36.16	31.80	35.34	33.88	36.22	32.61	34.67	35.87	38.28	38.39
MgO wt. %	22.05	18.57	23.08	18.63	21.73	19.42	21.92	23.03	23.09	20.74
FeO+MnO%	41.80	49.63	41.58	47.49	42.04	47.97	43.41	41.10	38.63	40.86

Sample #	2594	2577	2578	2579	2580	2581	2582	2583	2584	2585
From (m)	1382.26	1389.55	1393.14	1402.17	1414.13	1423.75	1435.26	1444.48	1454	1463.57
To (m)	1382.43	1389.73	1393.35	1402.3	1414.34	1423.95	1435.54	1444.72	1454.24	1463.84
SiO ₂	43.14	59.76	32.22	36.04	44.03	60.61	35.60	37.60	37.12	36.66
TiO ₂	3.18	1.07	7.45	7.38	3.59	0.78	6.54	5.88	6.20	6.18
Al ₂ O ₃	11.20	17.40	8.51	11.50	13.90	17.90	8.83	9.56	8.97	8.14
Cr ₂ O ₃	0.07	0.01	0.01	0.01	0.03	0.01	0.01	0.02	0.06	0.03
V ₂ O ₅	0.04	0.01	0.11	0.08	0.05	0.01	0.11	0.09	0.10	0.10
FeO	12.00	4.08	22.70	15.20	11.80	3.66	18.70	17.10	16.60	17.20
MnO	0.20	0.08	0.31	0.21	0.20	0.07	0.21	0.21	0.19	0.20
MgO	12.20	1.21	8.04	9.59	7.08	1.00	9.21	9.10	9.40	9.89
CaO	9.25	3.24	14.20	12.70	9.71	2.47	14.10	14.30	15.00	15.80
Na ₂ O	2.83	4.83	1.21	1.93	3.20	5.29	1.54	1.80	1.82	1.52
K ₂ O	2.00	6.70	0.53	1.24	2.68	6.65	0.70	1.11	0.89	0.58
P ₂ O ₅	0.70	0.19	1.24	0.57	0.82	0.19	0.33	0.53	0.44	0.26
SO ₂	0.36	0.10	0.78	0.90	0.72	0.04	1.24	1.00	0.70	1.08
CO ₂	0.80	0.40	1.00	1.30	0.30	0.40	1.60	0.80	0.80	0.60
Total C	0.24	0.14	0.27	0.37	0.21	0.12	0.45	0.21	0.23	0.17
TotOrg C	0.02	0.02	0.00	0.01	0.12	0.01	0.01	0.00	0.00	0.01
LOI	1.71	0.67	0.69	1.48	1.07	0.62	1.54	1.09	0.95	0.78
Total	99.94	99.91	99.26	100.52	99.50	99.83	100.71	100.39	99.46	99.21
Na ₂ O+K ₂ O	4.83	11.53	1.74	3.17	5.88	11.94	2.24	2.91	2.71	2.10
CaO/Al ₂ O ₃	0.83	0.19	1.67	1.10	0.70	0.14	1.60	1.50	1.67	1.94
MgO/CaO	1.32	0.37	0.57	0.76	0.73	0.40	0.65	0.64	0.63	0.63
SiO ₂ /Al ₂ O ₃	3.85	3.43	3.79	3.13	3.17	3.39	4.03	3.93	4.14	4.50
Fe/Mn	60.22	51.19	73.50	72.65	59.22	52.48	89.38	81.73	87.69	86.32
CaO wt. %	27.49	37.63	31.38	33.69	33.73	34.31	33.40	35.13	36.42	36.67
MgO wt. %	36.26	14.05	17.77	25.44	24.59	13.89	21.81	22.35	22.82	22.95
FeO+MnO%	36.26	48.32	50.85	40.88	41.68	51.81	44.79	42.52	40.76	40.38

Sample #	2595	2596	2597	2598	2599	2586	2587	2545	2546	2547
From (m)	1464	1465	1465.59	1466.2	1467.19	1472.72	1477.15	1478	1479.42	1479.42
To (m)	1465	1465.59	1466.2	1467.19	1468	1472.94	1477.39	1478.72	1479.87	1479.87
SiO ₂	36.25	32.52	37.19	32.72	44.97	42.03	39.28	44.10	34.60	34.30
TiO ₂	6.41	6.96	5.67	5.48	3.40	4.20	4.82	3.94	6.92	5.85
Al ₂ O ₃	8.89	9.54	9.61	6.46	10.80	13.00	8.50	11.10	9.12	7.71
Cr ₂ O ₃	0.04	0.04	0.03	0.19	0.07	0.04	0.12	0.06	0.06	0.09
V ₂ O ₅	0.10	0.12	0.09	0.10	0.05	0.06	0.08	0.05	0.10	0.10
FeO	18.50	22.30	16.30	22.70	10.90	12.00	13.10	11.52	20.07	21.78
MnO	0.21	0.23	0.20	0.27	0.17	0.20	0.18	0.18	0.23	0.24
MgO	10.40	9.59	10.10	16.70	8.96	7.83	11.30	8.86	9.59	9.66
CaO	13.80	11.30	14.00	8.99	13.50	11.90	15.70	13.50	13.60	14.90
Na ₂ O	1.44	1.59	1.69	0.98	2.38	3.09	1.57	2.41	1.51	1.14
K ₂ O	0.83	1.13	1.04	0.85	1.58	2.06	0.83	1.72	0.92	0.52
P ₂ O ₅	0.36	0.52	0.61	0.27	0.30	0.78	0.17	0.24	0.25	0.20
SO ₂	1.20	1.80	0.68	1.26	0.40	0.40	0.64	0.58	2.84	5.03
CO ₂	0.70	1.00	1.20	1.10	1.40	0.10	1.60	0.80	0.80	0.30
Total C	0.19	0.29	0.32	0.29	0.38	0.12	0.49	0.25	0.23	0.10
TotOrg C	0.01	0.01	0.00	0.00	0.00	0.09	0.05	0.02	0.02	0.02
LOI	0.57	1.05	1.05	1.43	1.42	1.14	2.27	0.94	0.81	1.17
Total	99.90	99.98	99.77	99.78	100.67	99.04	100.70	100.28	101.67	103.11
Na ₂ O+K ₂ O	2.27	2.72	2.73	1.83	3.96	5.15	2.40	4.13	2.43	1.66
CaO/Al ₂ O ₃	1.55	1.18	1.46	1.39	1.25	0.92	1.85	1.22	1.49	1.93
MgO/CaO	0.75	0.85	0.72	1.86	0.66	0.66	0.72	0.66	0.71	0.65
SiO ₂ /Al ₂ O ₃	4.08	3.41	3.87	5.07	4.16	3.23	4.62	3.97	3.79	4.45
Fe/Mn	88.42	97.31	81.80	84.38	64.35	60.22	73.05	64.24	87.58	91.09
CaO wt. %	32.16	26.02	34.48	18.48	40.26	37.27	38.98	39.64	31.27	31.99
MgO wt. %	24.24	22.09	24.88	34.32	26.72	24.52	28.05	26.01	22.05	20.74
FeO+MnO%	43.60	51.89	40.64	47.21	33.02	38.21	32.97	34.35	46.68	47.27

Sample #	2548	2549	2550	2551	2552	2553	2554	2588	2589
From (m)	1479.86	1480.31	1480.51	1481	1481.5	1482.18	1482.32	1483.01	1499.18
To (m)	1480.31	1480.51	1481	1481.5	1482.18	1482.32	1483	1483.24	1499.37
SiO ₂	33.50	59.90	32.10	32.10	55.60	39.40	38.10	34.37	37.14
TiO ₂	5.80	0.71	7.02	6.84	1.76	5.29	5.76	6.60	5.68
Al ₂ O ₃	7.91	19.30	9.48	8.77	18.30	12.40	11.60	10.40	8.55
Cr ₂ O ₃	0.08	0.00	0.07	0.08	0.01	0.02	0.01	0.01	0.04
V ₂ O ₅	0.09	0.00	0.11	0.10	0.02	0.06	0.07	0.09	0.10
FeO	23.22	4.04	26.00	25.46	5.93	16.65	15.48	16.60	17.60
MnO	0.47	0.06	0.27	0.30	0.10	0.27	0.22	0.21	0.23
MgO	8.80	0.63	7.47	7.41	2.31	7.02	8.44	9.23	9.81
CaO	13.50	2.50	10.30	11.50	4.40	10.40	12.40	13.60	15.00
Na ₂ O	1.29	5.69	1.95	1.82	5.41	2.91	2.33	2.30	1.41
K ₂ O	0.66	5.55	1.11	0.90	4.20	1.97	1.52	1.20	0.71
P ₂ O ₅	0.18	0.09	0.20	0.37	0.14	0.60	0.71	1.23	0.22
SO ₂	5.07	0.08	6.99	6.61	0.46	1.72	0.74	0.72	0.66
CO ₂	0.50	0.30	0.60	0.60	0.60	0.80	0.80	1.40	1.20
Total C	0.16	0.10	0.15	0.16	0.16	0.24	0.22	0.40	0.33
TotOrg C	0.02	0.02	0.00	0.00	0.01	0.01	0.01	0.01	0.00
LOI	1.50	0.34	0.85	0.83	0.52	0.59	0.78	1.74	1.50
Total	102.76	99.32	104.66	103.84	99.92	100.35	99.19	100.12	100.17
Na ₂ O+K ₂ O	1.95	11.24	3.06	2.72	9.61	4.88	3.85	3.50	2.12
CaO/Al ₂ O ₃	1.71	0.13	1.09	1.31	0.24	0.84	1.07	1.31	1.75
MgO/CaO	0.65	0.25	0.73	0.64	0.53	0.68	0.68	0.68	0.65
SiO ₂ /Al ₂ O ₃	4.24	3.10	3.39	3.66	3.04	3.18	3.28	3.30	4.34
Fe/Mn	49.59	67.58	96.65	85.18	59.52	61.89	70.62	79.34	76.80
CaO wt. %	29.35	34.58	23.39	25.74	34.54	30.29	33.94	34.31	35.18
MgO wt. %	19.13	8.71	16.96	16.59	18.13	20.44	23.10	23.28	23.01
FeO+MnO%	51.51	56.71	59.65	57.67	47.33	49.27	42.97	42.41	41.82