UMT040 – major element data

Sample no.	S001040	S002040	S003040	S004040	S005040	S006040	S007040	S008040
Depth	770.53 - 770.68	776.46 - 776.63	780.33 - 780.49	782.18 - 782.36	783.07 - 783.25	792.46 - 792.62	798.21 - 798.37	798.65 - 798.76
Stratigraphy	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU
SiO_2	50.67	52.48	53.74	50.20	49.92	53.30	54.36	50.30
Al_2O_3	23.19	19.74	9.04	27.59	26.97	7.60	7.54	27.46
Fe_2O_3	0.60	0.72	1.16	0.34	0.35	1.31	1.14	0.27
FeO	4.83	5.80	9.38	2.72	2.81	10.60	9.27	2.15
Tot FeO	5.37	6.45	10.42	3.03	3.12	11.78	10.30	2.39
MnO	0.10	0.12	0.20	0.05	0.06	0.23	0.21	0.05
MgO	5.96	8.90	18.79	2.80	3.20	19.91	20.89	2.97
CaO	12.42	10.68	6.25	13.37	13.70	5.76	5.14	13.01
Na_2O	2.03	2.21	1.00	2.44	2.24	0.81	0.85	2.47
K_2O	0.26	0.26	0.14	0.61	0.83	0.18	0.24	1.20
TiO_2	0.18	0.20	0.26	0.24	0.18	0.51	0.32	0.14
P_2O_5	0.04	0.02	0.04	0.04	0.03	0.08	0.04	0.03
Cr_2O_3	0.06	0.10	0.23	0.02	0.03	0.30	0.31	0.03
NiO	0.02	0.03	0.07	0.01	0.01	0.06	0.06	0.01
TOTAL	100.35	101.26	100.29	100.42	100.32	100.64	100.38	100.09
LOI	0.15	0.11	0.12	0.90	1.26	-0.22	0.42	1.46
FeO+MgO	10.79	14.70	28.17	5.52	6.01	30.51	30.16	5.12
SiO_2/Al_2O_3	2.18	2.66	5.94	1.82	1.85	7.01	7.21	1.83
Al_2O_3/FeO+MgO	2.15	1.34	0.32	5.00	4.49	0.25	0.25	5.36
Sr/Al_2O_3	13.09	12.67	11.79	13.19	12.55	12.65	11.09	11.28
Cr/MgO	54.84	68.38	80.88	46.72	57.33	98.16	96.78	69.94
CaO/Al_2O_3	0.54	0.54	0.69	0.48	0.51	0.76	0.68	0.47
MgO/FeO	1.23	1.53	2.00	1.03	1.14	1.88	2.25	1.38
MgO/((MgO)+FeO)	0.55	0.61	0.67	0.51	0.53	0.65	0.69	0.58

UMT040 – major element data continued

Sample no.	S009040	S010040	S011040	S012040	S013040	S014040	S015040	S016040
Depth	799.17 - 799.29	800.78 - 800.92	802.19 - 802.34	802.77 - 802.89	803.03 - 803.19	803.56 - 803.71	813.32 - 813.46	814.03 - 814.15
Stratigraphy	NCU	T1	T1	T1	T1	T1	T1	T1
SiO_2	54.32	53.98	53.05	55.18	53.35	54.07	54.40	53.17
Al_2O_3	6.43	5.90	5.85	5.93	6.21	3.54	6.17	4.54
Fe_2O_3	1.21	1.37	1.36	1.30	1.30	1.45	1.15	1.37
FeO	9.82	11.08	10.98	10.54	10.54	11.77	9.32	11.09
Tot FeO	10.91	12.31	12.20	11.71	11.71	13.07	10.35	12.32
MnO	0.21	0.21	0.21	0.20	0.21	0.23	0.20	0.23
MgO	21.68	22.00	22.11	22.29	22.14	23.38	23.79	23.29
CaO	4.72	3.85	4.00	4.71	4.25	4.51	4.20	4.06
Na_2O	0.76	0.69	0.76	0.69	0.67	0.41	0.62	0.63
K_2O	0.23	0.19	0.29	0.29	0.25	0.19	0.15	0.19
TiO_2	0.28	0.28	0.21	0.29	0.20	0.30	0.15	0.25
P_2O_5	0.04	0.03	0.02	0.05	0.04	0.04	0.02	0.03
Cr_2O_3	0.32	0.33	0.34	0.36	0.34	0.38	0.40	0.37
NiO	0.07	0.26	0.43	0.28	0.37	0.25	0.08	0.10
TOTAL	100.07	100.18	99.59	102.13	99.88	100.54	100.65	99.31
LOI	0.53	1.34	0.95	1.45	0.70	-0.01	-0.11	-0.15
FeO+MgO	31.50	33.08	33.09	32.83	32.68	35.15	33.11	34.38
SiO_2/Al_2O_3	8.45	9.15	9.07	9.31	8.59	15.27	8.82	11.71
Al_2O_3/FeO+MgO	0.20	0.18	0.18	0.18	0.19	0.10	0.19	0.13
Sr/Al_2O_3	9.94	8.69	10.62	9.07	11.08	8.27	9.91	10.46
Cr/MgO	96.87	98.46	102.71	103.90	102.41	110.06	111.74	105.53
CaO/Al_2O_3	0.73	0.65	0.68	0.79	0.68	1.27	0.68	0.89
MgO/FeO	2.21	1.99	2.01	2.11	2.10	1.99	2.55	2.10
MgO/((MgO)+FeO)	0.69	0.67	0.67	0.68	0.68	0.67	0.72	0.68

UMT040 – major element data continued

Sample no.	S017040	S018040	S019040	S020040	S021040	S022040	S023040	S024040
Depth	815.01 - 815.13	815.28 - 815.44	816.33 - 816.49	817.67 - 817.83	818.44 - 818.58	824.29 - 824.40	826.05 - 826.21	826.36 - 826.51
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
SiO_2	54.23	53.82	54.36	54.28	54.34	54.43	54.00	54.50
Al_2O_3	6.46	4.08	6.07	5.57	5.48	5.11	5.70	4.64
Fe_2O_3	1.15	1.41	1.21	1.28	1.26	1.31	1.26	1.33
FeO	9.34	11.42	9.84	10.35	10.24	10.61	10.22	10.77
Tot FeO	10.37	12.69	10.93	11.50	11.37	11.79	11.35	11.97
MnO	0.20	0.23	0.21	0.22	0.22	0.23	0.22	0.23
MgO	23.30	22.81	23.25	23.03	22.97	23.42	23.15	23.03
CaO	4.57	4.85	4.36	4.60	4.59	3.74	4.44	4.14
Na_2O	0.60	0.55	0.62	0.58	0.60	0.68	0.63	0.60
K_2O	0.11	0.16	0.15	0.15	0.17	0.24	0.16	0.24
TiO_2	0.15	0.26	0.18	0.20	0.21	0.27	0.20	0.27
P_2O_5	0.01	0.02	0.02	0.02	0.02	0.05	0.02	0.02
Cr_2O_3	0.40	0.39	0.39	0.39	0.38	0.37	0.38	0.38
NiO	0.09	0.18	0.08	0.08	0.08	0.13	0.12	0.12
TOTAL	100.62	100.20	100.74	100.75	100.58	100.58	100.49	100.27
LOI	-0.02	-0.10	-0.12	-0.06	-0.04	0.03	0.44	0.19
FeO+MgO	32.64	34.23	33.09	33.38	33.21	34.03	33.37	33.80
SiO_2/Al_2O_3	8.39	13.19	8.96	9.75	9.92	10.65	9.47	11.75
Al_2O_3/FeO+MgO	0.20	0.12	0.18	0.17	0.17	0.15	0.17	0.14
Sr/Al_2O_3	10.09	9.58	10.52	9.82	10.23	10.32	9.71	9.68
Cr/MgO	113.75	115.94	110.18	111.30	111.69	105.89	110.04	109.40
CaO/Al_2O_3	0.71	1.19	0.72	0.83	0.84	0.73	0.78	0.89
MgO/FeO	2.49	2.00	2.36	2.23	2.24	2.21	2.27	2.14
MgO/((MgO)+FeO)	0.71	0.67	0.70	0.69	0.69	0.69	0.69	0.68

UMT040 – major element data continued

Sample no.	S025040	S026040	S027040	S028040	S029040	S030040	S031040	S032040
Depth	827.01 - 827.16	827.32 - 827.68	832.73 - 832.87	838.02 - 838.17	841.4 - 841.55	843.41 - 843.57	844.46 - 844.60	849.03 - 849.18
Stratigraphy	T1	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
SiO_2	53.37	54.41	53.94	54.30	53.24	53.11	52.79	52.30
Al_2O_3	6.01	4.89	6.14	6.34	2.20	6.02	2.97	3.65
Fe_2O_3	1.24	1.31	1.21	1.20	1.72	1.32	1.60	1.54
FeO	10.05	10.61	9.77	9.71	13.93	10.70	12.95	12.47
Tot FeO	11.17	11.79	10.86	10.79	15.48	11.89	14.39	13.86
MnO	0.21	0.22	0.20	0.20	0.22	0.21	0.21	0.23
MgO	22.93	22.67	22.41	22.29	23.49	21.62	24.32	24.83
CaO	4.27	4.75	4.93	4.88	3.72	5.24	3.09	2.93
Na_2O	0.61	0.58	0.58	0.62	0.32	0.69	0.41	0.33
K_2O	0.18	0.24	0.27	0.24	0.27	0.32	0.14	0.17
TiO_2	0.17	0.26	0.19	0.20	0.30	0.27	0.24	0.18
P_2O_5	0.02	0.04	0.02	0.03	0.02	0.04	0.01	0.02
Cr_2O_3	0.37	0.39	0.37	0.38	0.40	0.34	0.33	0.25
NiO	0.11	0.13	0.11	0.09	0.97	0.74	1.04	0.88
TOTAL	99.53	100.48	100.14	100.48	100.81	100.60	100.11	99.77
LOI	0.11	0.09	0.44	0.92	1.81	1.90	1.19	1.37
FeO+MgO	32.98	33.28	32.18	32.00	37.42	32.32	37.27	37.30
SiO_2/Al_2O_3	8.88	11.13	8.79	8.56	24.20	8.82	17.77	14.33
Al_2O_3/FeO+MgO	0.18	0.15	0.19	0.20	0.06	0.19	0.08	0.10
Sr/Al_2O_3	10.26	10.46	10.30	9.27	7.87	9.43	8.76	7.72
Cr/MgO	110.87	113.84	114.01	110.70	113.26	106.61	95.06	70.04
CaO/Al_2O_3	0.71	0.97	0.80	0.77	1.69	0.87	1.04	0.80
MgO/FeO	2.28	2.14	2.29	2.30	1.69	2.02	1.88	1.99
MgO/((MgO)+FeO)	0.70	0.68	0.70	0.70	0.63	0.67	0.65	0.67

UMT040 – major element data continued

Sample no.	S033040	S034040	S035040	S036040	S037040	S038040	S039040	S040040
Depth	850.02 - 850.17	851.81 - 851.94	853.53 - 853.70	857.1 - 857.27	858.65 - 858.80	859.12 - 859.27	862.1 - 862.24	864.22 - 864.31
Stratigraphy	T2 Upper	T2 Lower	T2 Lower	T2 Lower	T2 Lower	CZ	CZ	CZ
SiO_2	51.78	41.54	41.34	47.08	43.23	52.36	52.59	49.72
Al_2O_3	2.93	3.78	4.49	3.49	4.26	6.58	5.52	5.46
Fe_2O_3	1.50	1.98	1.88	1.82	1.94	1.32	1.37	1.47
FeO	12.14	16.04	15.23	14.71	15.71	10.69	11.13	11.92
Tot FeO	13.49	17.82	16.92	16.35	17.46	11.88	12.36	13.24
MnO	0.23	0.16	0.19	0.22	0.16	0.22	0.20	0.20
MgO	25.89	31.86	33.07	28.65	29.29	22.23	21.62	24.63
CaO	3.73	2.59	2.89	2.64	3.56	4.77	5.98	4.82
Na_2O	0.05	0.30	0.15	0.20	0.40	0.64	0.62	0.14
K_2O	0.04	0.20	0.06	0.15	0.12	0.15	0.15	0.08
TiO_2	0.30	0.10	0.09	0.18	0.13	0.19	0.22	0.19
P_2O_5	0.01	0.03	0.02	0.04	0.02	0.02	0.03	0.02
Cr_2O_3	0.30	0.06	0.04	0.13	0.08	0.19	0.25	0.39
NiO	0.78	0.91	0.41	0.49	0.63	0.43	0.46	0.21
TOTAL	99.68	99.53	99.86	99.79	99.52	99.81	100.14	99.25
LOI	1.80	8.33	9.80	6.72	6.57	0.94	0.44	4.72
FeO+MgO	38.03	47.90	48.30	43.36	45.00	32.92	32.75	36.55
SiO_2/Al_2O_3	17.67	10.99	9.21	13.49	10.15	7.96	9.53	9.11
Al_2O_3/FeO+MgO	0.08	0.08	0.09	0.08	0.09	0.20	0.17	0.15
Sr/Al_2O_3	1.29	10.92	6.87	6.02	8.93	16.77	15.71	1.10
Cr/MgO	77.48	10.61	6.92	29.48	15.35	58.36	77.35	99.19
CaO/Al_2O_3	1.27	0.69	0.64	0.76	0.84	0.72	1.08	0.88
MgO/FeO	2.13	1.99	2.17	1.95	1.86	2.08	1.94	2.07
MgO/((MgO)+FeO)	0.68	0.67	0.68	0.66	0.65	0.68	0.66	0.67

UMT040 – major element data continued

Sample no.	S041040	S042040	S043040
Depth	864.56 - 864.69	865.02 - 865.17	865.77 - 865.92
Stratigraphy	CZ	CZ	CZ
SiO_2	51.32	52.02	51.31
Al_2O_3	4.46	9.29	7.23
Fe_2O_3	1.47	1.15	1.37
FeO	11.90	9.29	11.10
Tot FeO	13.22	10.32	12.33
MnO	0.20	0.20	0.20
MgO	26.27	20.38	21.29
CaO	3.38	6.06	5.31
Na_2O	0.17	0.69	0.66
K_2O	0.03	0.25	0.23
TiO_2	0.18	0.16	0.19
P_2O_5	0.02	0.01	0.02
Cr_2O_3	0.70	0.36	0.34
NiO	0.22	0.20	0.59
TOTAL	100.33	100.05	99.85
LOI	3.37	0.90	1.04
FeO+MgO	38.17	29.67	32.39
SiO_2/Al_2O_3	11.51	5.60	7.10
Al_2O_3/FeO+MgO	0.12	0.31	0.22
Sr/Al_2O_3	0.92	19.10	18.61
Cr/MgO	154.50	118.52	109.98
CaO/Al_2O_3	0.76	0.65	0.73
MgO/FeO	2.21	2.19	1.92
MgO/((MgO)+FeO)	0.69	0.69	0.66

UMT063 – major element data

Sample no.	S039063	S001063	S002063	S003063	S004063	S005063	S006063	S007063
Depth	780.57 - 780.72	787.6 - 787.74	788.82 - 788.96	795.26 - 795.41	797.14 - 797.3	801.2 - 801.31	802.25 - 802.42	807.56 - 807.72
Stratigraphy	MZ	MZ	NCU	NCU	NCU	NCU	NCU	NCU
SiO_2	52.70	54.17	53.98	52.31	53.75	54.07	51.54	52.21
Al_2O_3	21.46	17.41	8.77	21.65	10.64	10.21	22.10	16.08
Fe_2O_3	0.64	0.54	1.34	0.59	1.16	1.08	0.59	0.91
FeO	5.22	4.40	10.85	4.81	9.43	8.76	4.81	7.40
Tot FeO	5.80	4.89	12.06	5.34	10.47	9.73	5.34	8.22
MnO	0.10	0.10	0.22	0.10	0.19	0.18	0.10	0.15
MgO	4.61	5.97	17.23	6.53	16.50	17.14	6.58	11.60
CaO	11.72	13.29	6.12	11.25	6.75	6.48	11.95	9.20
Na_2O	2.54	1.83	0.95	2.33	1.22	1.14	2.13	1.84
K_2O	0.66	0.51	0.31	0.43	0.29	0.26	0.38	0.24
TiO_2	0.27	0.70	0.35	0.30	0.29	0.35	0.19	0.23
P_2O_5	0.07	0.11	0.05	0.04	0.04	0.04	0.03	0.03
Cr_2O_3	0.03	0.12	0.17	0.05	0.18	0.19	0.06	0.13
NiO	0.01	0.28	0.09	0.02	0.10	0.12	0.03	0.04
TOTAL	100.04	99.43	100.42	100.41	100.54	100.01	100.50	100.05
LOI	0.17	0.36	-0.13	0.64	-0.16	0.01	0.15	-0.15
FeO+MgO	9.83	10.37	28.08	11.34	25.93	25.90	11.39	19.00
SiO_2/Al_2O_3	2.46	3.11	6.16	2.42	5.05	5.30	2.33	3.25
Al_2O_3/FeO+MgO	2.18	1.68	0.31	1.91	0.41	0.39	1.94	0.85
Sr/Al_2O_3	13.05	17.19	12.13	13.23	12.19	12.75	13.24	12.73
Cr/MgO	38.06	33.07	64.58	53.20	70.33	72.13	59.15	74.25
CaO/Al_2O_3	0.55	0.76	0.70	0.52	0.63	0.63	0.54	0.57
MgO/FeO	0.88	1.36	1.59	1.36	1.75	1.96	1.37	1.57
MgO/((MgO)+FeO)	0.47	0.58	0.61	0.58	0.64	0.66	0.58	0.61

UMT063 – major element data continued

Sample no.	S008063	S040063	S009063	S010063	S011063	S012063	S013063	S014063
Depth	810.67 - 810.79	812.4 - 812.53	812.82 - 812.97	813.5 - 813.64	816.57 - 816.74	817.34 - 817.48	817.78 - 817.94	818.44 - 818.59
Stratigraphy	NCU	NCU	NCU	T1	T1	T1	T1	T1
SiO_2	54.30	52.10	53.69	53.97	53.71	54.31	53.82	52.78
Al_2O_3	7.25	20.34	7.99	7.03	6.66	6.58	6.22	4.81
Fe_2O_3	1.20	0.59	1.19	1.21	1.21	1.23	1.27	1.50
FeO	9.71	4.75	9.65	9.80	9.78	9.98	10.26	12.12
Tot FeO	10.79	5.28	10.72	10.89	10.87	11.09	11.40	13.47
MnO	0.21	0.10	0.19	0.21	0.21	0.22	0.22	0.21
MgO	20.71	8.65	19.97	21.07	21.46	21.98	21.57	20.93
CaO	5.07	10.36	5.89	5.38	5.30	5.07	5.15	5.07
Na_2O	0.83	2.23	0.79	0.81	0.68	0.74	0.77	0.67
K_2O	0.23	0.54	0.17	0.15	0.15	0.13	0.14	0.24
TiO_2	0.28	0.22	0.25	0.23	0.21	0.22	0.23	0.32
P_2O_5	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.04
Cr_2O_3	0.31	0.13	0.34	0.32	0.33	0.33	0.32	0.36
NiO	0.09	0.03	0.07	0.07	0.07	0.07	0.13	0.70
TOTAL	100.21	100.08	100.24	100.28	99.79	100.88	100.13	99.76
LOI	-0.07	0.48	3.43	-0.38	-0.29	-0.38	-0.22	0.50
FeO+MgO	30.42	13.40	29.62	30.87	31.24	31.96	31.83	33.05
SiO_2/Al_2O_3	7.49	2.56	6.72	7.68	8.06	8.25	8.65	10.97
Al_2O_3/FeO+MgO	0.24	1.52	0.27	0.23	0.21	0.21	0.20	0.15
Sr/Al_2O_3	10.98	12.51	6.33	11.21	11.70	11.16	11.03	10.51
Cr/MgO	97.41	93.94	108.56	101.12	102.06	98.18	99.86	117.24
CaO/Al_2O_3	0.70	0.51	0.74	0.77	0.80	0.77	0.83	1.05
MgO/FeO	2.13	1.82	2.07	2.15	2.19	2.20	2.10	1.73
MgO/((MgO)+FeO)	0.68	0.65	0.67	0.68	0.69	0.69	0.68	0.63

UMT063 – major element data continued

Sample no.	S015063	S016063	S017063	S018063	S019063	S020063	S021063	S022063
Depth	819.12 - 819.24	819.69 - 819.85	820.8 - 820.96	821.22 - 821.37	822.05 - 822.22	823.62 - 823.78	824.42 - 824.54	825.09 - 825.24
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
SiO_2	53.01	52.75	54.32	53.94	54.56	53.85	53.73	53.72
Al_2O_3	8.01	7.40	6.31	7.32	4.68	7.29	7.45	6.82
Fe_2O_3	1.24	1.27	1.21	1.13	1.27	1.13	1.11	1.13
FeO	10.05	10.28	9.79	9.15	10.28	9.14	9.03	9.16
Tot FeO	11.17	11.42	10.88	10.17	11.42	10.16	10.03	10.18
MnO	0.19	0.19	0.20	0.20	0.21	0.20	0.20	0.21
MgO	20.10	21.01	21.46	21.96	21.97	21.84	22.11	23.07
CaO	5.31	4.85	5.09	4.98	5.03	5.05	4.92	4.65
Na_2O	1.06	0.89	0.83	0.86	0.67	0.78	0.79	0.70
K_2O	0.24	0.15	0.22	0.14	0.34	0.17	0.14	0.14
TiO_2	0.22	0.16	0.25	0.17	0.34	0.18	0.15	0.15
P_2O_5	0.03	0.02	0.03	0.02	0.05	0.02	0.02	0.02
Cr_2O_3	0.34	0.36	0.37	0.39	0.38	0.37	0.37	0.38
NiO	0.47	0.54	0.15	0.12	0.15	0.12	0.14	0.11
TOTAL	100.27	99.86	100.24	100.39	99.93	100.13	100.16	100.27
LOI	0.38	0.12	0.75	-0.12	0.00	0.00	-0.10	0.38
FeO+MgO	30.15	31.29	31.25	31.11	32.25	30.98	31.14	32.23
SiO_2/Al_2O_3	6.62	7.13	8.61	7.37	11.66	7.39	7.21	7.88
Al_2O_3/FeO+MgO	0.27	0.24	0.20	0.24	0.15	0.24	0.24	0.21
Sr/Al_2O_3	12.22	11.76	10.39	10.94	9.38	10.85	11.97	11.11
Cr/MgO	115.19	119.21	114.95	118.51	114.49	111.46	112.54	108.34
CaO/Al_2O_3	0.66	0.66	0.81	0.68	1.07	0.69	0.66	0.68
MgO/FeO	2.00	2.04	2.19	2.40	2.14	2.39	2.45	2.52
MgO/((MgO)+FeO)	0.67	0.67	0.69	0.71	0.68	0.70	0.71	0.72

UMT063 – major element data continued

Sample no.	S023063	S024063	S025063	S026063	S027063	S028063	S029063	S030063
Depth	825.76 - 825.92	826.5 - 826.67	827.58 - 827.74	828.15 - 828.32	830.59 - 830.75	832.3 - 832.48	833.52 - 833.69	837 - 837.12
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
SiO_2	51.74	52.92	53.16	53.01	44.41	51.62	52.98	42.13
Al_2O_3	3.16	6.55	4.25	6.54	6.74	23.49	5.07	5.07
Fe_2O_3	1.64	1.28	1.39	1.29	2.19	0.54	1.33	1.85
FeO	13.27	10.34	11.25	10.45	17.70	4.37	10.80	14.96
Tot FeO	14.75	11.49	12.50	11.61	19.67	4.86	12.00	16.62
MnO	0.22	0.20	0.21	0.20	0.17	0.09	0.22	0.21
MgO	24.28	22.20	24.32	20.86	17.82	4.33	23.35	31.40
CaO	3.14	4.55	3.44	4.87	4.72	12.44	4.53	3.18
Na_2O	0.31	0.88	0.49	0.85	0.55	2.46	0.54	0.24
K_2O	0.12	0.20	0.16	0.35	0.18	0.47	0.11	0.29
TiO_2	0.21	0.16	0.18	0.25	0.19	0.25	0.19	0.12
P_2O_5	0.03	0.02	0.02	0.04	0.03	0.05	0.02	0.05
Cr_2O_3	0.41	0.39	0.41	0.36	0.28	0.03	0.36	0.04
NiO	1.19	0.58	0.58	0.59	3.59	0.02	0.52	0.79
TOTAL	99.72	100.26	99.85	99.66	98.57	100.16	100.03	100.32
LOI	0.61	0.53	0.85	0.63	3.01	1.58	0.79	3.54
FeO+MgO	37.55	32.54	35.57	31.31	35.52	8.70	34.15	46.36
SiO_2/Al_2O_3	16.37	8.08	12.51	8.11	6.59	2.20	10.45	8.31
Al_2O_3/FeO+MgO	0.08	0.20	0.12	0.21	0.19	2.70	0.15	0.11
Sr/Al_2O_3	7.19	11.16	8.30	11.95	10.61	7.25	9.82	11.36
Cr/MgO	119.26	119.04	113.30	116.23	114.55	164.75	101.91	9.86
CaO/Al_2O_3	0.99	0.69	0.81	0.74	0.70	0.53	0.89	0.63
MgO/FeO	1.83	2.15	2.16	2.00	1.01	0.99	2.16	2.10
MgO/((MgO)+FeO)	0.65	0.68	0.68	0.67	0.50	0.50	0.68	0.68

UMT063 – major element data continued

Sample no.	S031063	S032063	S033063	S034063	S035063	S036063	S037063	S038063
Depth	841.23 - 841.37	845.05 - 845.22	847.49 - 847.67	850.48 - 851.62	851.21 - 851.37	852.73 - 852.81	857.34 - 857.51	857.34 - 857.51
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	CZ	CZ	CZ
SiO_2	44.22	53.90	53.71	51.30	51.27	50.07	47.90	46.20
Al_2O_3	3.91	3.53	4.50	7.22	5.64	4.73	9.34	7.05
Fe_2O_3	1.84	1.35	1.30	1.26	1.14	1.12	0.83	1.28
FeO	14.88	10.95	10.53	10.23	9.22	9.07	6.74	10.40
Tot FeO	16.54	12.16	11.70	11.36	10.25	10.08	7.49	11.55
MnO	0.19	0.22	0.21	0.19	0.20	0.18	0.18	0.18
MgO	29.85	24.82	22.88	19.98	20.65	19.89	15.39	23.77
CaO	2.99	4.38	5.40	7.34	10.74	13.91	18.42	9.50
Na_2O	0.28	0.41	0.54	0.58	0.29	0.12	0.15	0.36
K_2O	0.28	0.09	0.15	0.16	0.07	0.01	0.25	0.12
TiO_2	0.16	0.23	0.25	0.23	0.27	0.26	0.41	0.14
P_2O_5	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02
Cr_2O_3	0.12	0.30	0.33	0.30	0.37	0.32	0.27	0.30
NiO	0.89	0.22	0.23	0.56	0.11	0.12	0.12	0.15
TOTAL	99.63	100.43	100.07	99.38	99.98	99.82	100.01	99.48
LOI	4.15	0.44	0.06	1.05	2.11	3.50	2.65	3.20
FeO+MgO	44.73	35.77	33.41	30.21	29.87	28.96	22.13	34.17
SiO_2/Al_2O_3	11.31	15.27	11.94	7.11	9.09	10.59	5.13	6.55
Al_2O_3/FeO+MgO	0.09	0.10	0.13	0.24	0.19	0.16	0.42	0.21
Sr/Al_2O_3	10.44	8.72	9.71	7.76	4.49	3.06	14.13	10.36
Cr/MgO	25.43	82.06	95.24	101.85	112.93	100.11	113.92	75.98
CaO/Al_2O_3	0.76	1.24	1.20	1.02	1.90	2.94	1.97	1.35
MgO/FeO	2.01	2.27	2.17	1.95	2.24	2.19	2.28	2.29
MgO/((MgO)+FeO)	0.67	0.69	0.68	0.66	0.69	0.69	0.70	0.70

UMT064 – major element data

Sample no.	S001064	S002064	S003064	S004064	S005064	S006064	S007064	S008064
Depth	804.47 - 804.61	807.99 - 808.14	815.71 - 815.86	816.72 - 816.87	818.3 - 818.45	818.92 - 819.07	820.21 - 820.36	822.5 - 822.65
Stratigraphy	NCU	NCU	NCU	T1	T1	T1	T1	T1
SiO_2	54.04	54.60	52.81	55.72	53.02	53.19	52.95	52.51
Al_2O_3	7.14	6.59	5.67	7.25	5.00	5.95	7.73	6.59
Fe_2O_3	1.21	1.17	1.18	1.12	1.43	1.16	1.22	1.32
FeO	9.82	9.48	9.55	9.10	11.52	9.43	9.95	10.67
Tot FeO	10.91	10.53	10.61	10.11	12.81	10.47	11.05	11.86
MnO	0.19	0.18	0.20	0.18	0.20	0.19	0.18	0.19
MgO	20.60	21.32	22.14	20.83	21.72	21.82	20.71	21.35
CaO	4.96	4.79	4.20	4.74	4.59	5.42	4.65	4.55
Na_2O	0.79	0.78	0.69	0.94	0.68	0.57	0.87	0.77
K_2O	0.41	0.44	0.43	0.64	0.38	0.36	0.40	0.38
TiO_2	0.35	0.36	0.35	0.34	0.34	0.32	0.29	0.29
P_2O_5	0.05	0.04	0.05	0.04	0.05	0.03	0.02	0.03
Cr_2O_3	0.31	0.32	0.32	0.31	0.34	0.37	0.38	0.38
NiO	0.08	0.07	0.07	0.07	0.83	0.09	0.53	0.71
TOTAL	99.96	100.14	97.66	101.28	100.10	98.91	99.88	99.75
LOI	-0.10	-0.24	-0.37	-0.07	1.47	0.75	0.56	0.87
FeO+MgO	30.42	30.80	31.69	29.93	33.24	31.25	30.66	32.02
SiO_2/Al_2O_3	7.57	8.29	9.31	7.69	10.60	8.94	6.85	7.97
Al_2O_3/FeO+MgO	0.23	0.21	0.18	0.24	0.15	0.19	0.25	0.21
Sr/Al_2O_3	11.45	11.94	10.32	10.98	9.69	3.72	11.75	11.00
Cr/MgO	99.12	99.29	98.74	99.93	104.94	146.92	127.95	123.68
CaO/Al_2O_3	0.69	0.73	0.74	0.65	0.92	0.91	0.60	0.69
MgO/FeO	2.10	2.25	2.32	2.29	1.89	2.31	2.08	2.00
MgO/((MgO)+FeO)	0.68	0.69	0.70	0.70	0.65	0.70	0.68	0.67

UMT064 – major element data continued

Sample no.	S009064	S010064	S011064	S012064	S013064	S014064	S015064	S016064
Depth	825.27 - 825.41	825.62 - 825.77	826.19 - 826.34	826.8 - 826.95	830.01 - 830.14	831.61 - 831.73	831.86 - 831.99	832.4 - 832.55
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
SiO_2	56.34	54.46	57.11	53.76	53.95	54.42	55.17	54.43
Al_2O_3	10.28	5.59	8.22	6.47	6.81	6.13	5.32	5.86
Fe_2O_3	0.95	1.27	1.01	1.13	1.12	1.15	1.20	1.20
FeO	7.69	10.23	8.17	9.20	9.10	9.37	9.77	9.79
Tot FeO	8.54	11.37	9.08	10.22	10.11	10.40	10.85	10.87
MnO	0.14	0.19	0.15	0.18	0.18	0.19	0.19	0.19
MgO	14.59	21.53	16.86	22.12	21.92	22.49	22.17	22.60
CaO	5.51	4.41	4.14	4.87	4.55	4.55	4.14	3.96
Na_2O	1.76	0.80	0.98	0.83	0.77	0.73	0.71	0.85
K_2O	1.72	0.49	1.63	0.39	0.43	0.40	0.57	0.43
TiO_2	0.47	0.34	0.64	0.30	0.30	0.30	0.36	0.33
P_2O_5	0.09	0.04	0.17	0.04	0.03	0.04	0.03	0.06
Cr_2O_3	0.25	0.37	0.27	0.38	0.36	0.37	0.36	0.36
NiO	0.31	0.27	0.15	0.14	0.12	0.13	0.13	0.16
TOTAL	100.11	99.97	99.49	99.82	99.65	100.29	100.13	100.21
LOI	0.72	0.30	1.60	0.32	0.20	0.10	0.16	0.12
FeO+MgO	22.28	31.76	25.03	31.32	31.02	31.86	31.94	32.39
SiO_2/Al_2O_3	5.48	9.74	6.95	8.31	7.92	8.88	10.37	9.29
Al_2O_3/FeO+MgO	0.46	0.18	0.33	0.21	0.22	0.19	0.17	0.18
Sr/Al_2O_3	12.31	11.20	8.31	11.29	11.33	10.32	10.00	10.23
Cr/MgO	111.03	112.29	103.30	116.41	110.03	110.20	106.73	103.64
CaO/Al_2O_3	0.54	0.79	0.50	0.75	0.67	0.74	0.78	0.68
MgO/FeO	1.90	2.10	2.06	2.40	2.41	2.40	2.27	2.31
MgO/((MgO)+FeO)	0.65	0.68	0.67	0.71	0.71	0.71	0.69	0.70

UMT064 – major element data continued

Sample no.	S017064	S018064	S019064	S020064	S021064	S022064	S023064	S024064
Depth	832.78 - 832.91	837.37 - 837.51	837.56 - 837.71	838.16 - 838.27	838.52 - 838.67	843.18 - 843.31	848.48 - 848.63	849.45 - 849.62
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
SiO_2	54.35	53.45	54.51	54.39	54.04	54.32	53.51	52.48
Al_2O_3	6.33	6.07	5.85	5.88	6.19	5.59	3.50	2.76
Fe_2O_3	1.14	1.16	1.18	1.17	1.18	1.18	1.58	1.50
FeO	9.22	9.44	9.62	9.47	9.58	9.55	12.82	12.15
Tot FeO	10.25	10.48	10.68	10.52	10.64	10.61	14.24	13.50
MnO	0.19	0.19	0.20	0.19	0.19	0.19	0.19	0.18
MgO	22.46	22.14	22.54	22.26	22.25	22.19	20.44	25.53
CaO	4.58	4.83	4.59	5.00	4.84	4.91	5.20	3.75
Na_2O	0.74	0.69	0.62	0.70	0.66	0.65	0.59	0.48
K_2O	0.39	0.39	0.39	0.40	0.38	0.44	0.56	0.29
TiO_2	0.31	0.31	0.33	0.33	0.33	0.33	0.44	0.30
P_2O_5	0.02	0.04	0.03	0.03	0.02	0.04	0.02	0.03
Cr_2O_3	0.38	0.36	0.37	0.36	0.36	0.35	0.46	0.28
NiO	0.13	0.13	0.10	0.10	0.15	0.09	1.29	0.94
TOTAL	100.24	99.23	100.34	100.29	100.18	99.84	100.60	100.69
LOI	0.55	0.05	-0.25	-0.29	-0.02	0.02	-0.25	0.16
FeO+MgO	31.68	31.58	32.16	31.73	31.83	31.74	33.26	37.68
SiO_2/Al_2O_3	8.59	8.81	9.32	9.25	8.73	9.72	15.29	19.01
Al_2O_3/FeO+MgO	0.20	0.19	0.18	0.19	0.19	0.18	0.11	0.07
Sr/Al_2O_3	10.31	10.52	10.32	10.77	10.71	9.86	16.88	18.42
Cr/MgO	110.91	109.32	105.50	106.70	106.13	105.82	122.71	97.07
CaO/Al_2O_3	0.72	0.80	0.78	0.85	0.78	0.88	1.49	1.36
MgO/FeO	2.44	2.35	2.34	2.35	2.32	2.32	1.59	2.10
MgO/((MgO)+FeO)	0.71	0.70	0.70	0.70	0.70	0.70	0.61	0.68

UMT064 – major element data continued

Sample no.	S025064	S026064	S027064	S028064	S029064	S030064	S031064	S032064
Depth	851.74 - 851.89	853.51 - 853.67	855.02 - 855.17	856.22 - 856.37	861.45 - 861.59	862.77 - 862.91	868.38 - 868.54	870.04 - 870.21
Stratigraphy	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
SiO_2	54.60	53.74	54.23	53.39	43.51	52.39	54.25	51.63
Al_2O_3	5.94	5.95	2.86	4.94	3.16	8.07	5.69	4.27
Fe_2O_3	1.19	1.21	1.23	1.37	1.93	1.18	1.20	1.44
FeO	9.71	9.80	9.98	11.10	15.65	9.59	9.77	11.61
Tot FeO	10.78	10.89	11.09	12.33	17.39	10.65	10.85	12.91
MnO	0.19	0.20	0.18	0.19	0.15	0.18	0.20	0.20
MgO	22.34	22.18	22.40	23.31	30.58	21.54	22.90	26.98
CaO	5.09	5.11	6.37	3.50	2.06	4.94	4.91	3.16
Na_2O	0.62	0.77	0.23	0.54	0.19	0.70	0.67	0.05
K_2O	0.39	0.41	0.40	0.41	0.75	0.38	0.33	0.27
TiO_2	0.31	0.32	0.37	0.32	0.25	0.26	0.31	0.28
P_2O_5	0.02	0.03	0.03	0.03	0.02	0.02	0.03	0.02
Cr_2O_3	0.36	0.36	0.38	0.26	0.10	0.34	0.37	0.35
NiO	0.09	0.10	0.60	0.60	1.61	0.54	0.12	0.39
TOTAL	100.85	100.19	99.27	99.96	99.96	100.14	100.75	100.65
LOI	-0.07	0.91	3.50	1.07	6.69	0.29	3.20	2.65
FeO+MgO	32.05	31.98	32.38	34.41	46.23	31.13	32.67	38.59
SiO_2/Al_2O_3	9.19	9.03	18.96	10.81	13.77	6.49	9.53	12.09
Al_2O_3/FeO+MgO	0.19	0.19	0.09	0.14	0.07	0.26	0.17	0.11
Sr/Al_2O_3	9.48	8.04	3.39	7.68	6.02	11.25	0.73	0.78
Cr/MgO	109.31	105.74	112.35	76.10	21.87	108.75	81.74	81.96
CaO/Al_2O_3	0.86	0.86	2.23	0.71	0.65	0.61	0.86	0.74
MgO/FeO	2.30	2.26	2.24	2.10	1.95	2.25	2.34	2.32
MgO/((MgO)+FeO)	0.70	0.69	0.69	0.68	0.66	0.69	0.70	0.70

UMT064 – major element data continued

Sample no.	S033064	S034064	S035064	S036064	S037064	S038064	S039064	S040064
Depth	871.19 - 871.34	871.67 - 871.82	875.09 - 875.26	875.68 - 875.87	876.45 - 876.59	879.4 - 879.55	882.06 - 882.22	887.57 - 887.73
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	CZ
SiO_2	49.82	51.60	51.75	50.71	50.15	48.98	47.33	51.88
Al_2O_3	3.60	4.29	5.72	6.47	4.69	7.35	5.81	8.11
Fe_2O_3	1.86	1.51	1.44	1.49	1.39	1.56	1.30	0.75
FeO	15.05	12.18	11.65	12.07	11.24	12.66	10.47	6.09
Tot FeO	16.72	13.54	12.95	13.41	12.49	14.06	11.64	6.76
MnO	0.17	0.17	0.20	0.21	0.18	0.19	0.17	0.15
MgO	24.53	25.77	23.06	25.08	22.60	24.63	20.01	14.18
CaO	3.35	3.76	4.24	3.64	7.96	4.33	11.35	16.12
Na_2O	0.07	0.12	0.45	0.36	0.38	0.13	0.17	0.75
K_2O	0.26	0.28	0.41	0.39	0.38	0.29	0.28	0.46
TiO_2	0.30	0.28	0.29	0.28	0.35	0.27	0.36	0.38
P_2O_5	0.03	0.03	0.02	0.02	0.03	0.02	0.03	0.02
Cr_2O_3	0.22	0.17	0.31	0.30	0.24	0.17	0.40	0.45
NiO	0.79	0.52	0.65	0.24	0.68	0.31	0.83	0.05
TOTAL	100.06	100.70	100.19	101.27	100.28	100.89	98.53	99.38
LOI	4.78	5.04	1.16	3.11	4.09	5.18	3.88	1.19
FeO+MgO	39.58	37.95	34.71	37.15	33.84	37.29	30.48	20.27
SiO_2/Al_2O_3	13.84	12.03	9.05	7.84	10.69	6.66	8.15	6.40
Al_2O_3/FeO+MgO	0.09	0.11	0.16	0.17	0.14	0.20	0.19	0.40
Sr/Al_2O_3	1.08	1.20	7.90	2.93	11.14	1.89	1.58	13.34
Cr/MgO	60.33	41.97	90.66	74.96	68.01	39.57	122.19	201.61
CaO/Al_2O_3	0.93	0.88	0.74	0.56	1.70	0.59	1.95	1.99
MgO/FeO	1.63	2.12	1.98	2.08	2.01	1.95	1.91	2.33
MgO/((MgO)+FeO)	0.62	0.68	0.66	0.68	0.67	0.66	0.66	0.70

UMT064 – major element data continued

Sample no.	S041064
Depth	892.29 - 892.42
Stratigraphy	CZ
SiO_2	47.05
Al_2O_3	3.92
Fe_2O_3	1.63
FeO	13.16
Tot FeO	14.63
MnO	0.21
MgO	23.63
CaO	5.79
Na_2O	0.52
K_2O	0.35
TiO_2	0.29
P_2O_5	0.03
Cr_2O_3	0.31
NiO	0.45
TOTAL	97.34
LOI	2.68
FeO+MgO	36.79
SiO_2/Al_2O_3	12.00
Al_2O_3/FeO+MgO	0.11
Sr/Al_2O_3	10.37
Cr/MgO	86.08
CaO/Al_2O_3	1.48
MgO/FeO	1.80
MgO/((MgO)+FeO)	0.64

UMT040 – CIPW norms data

	S001040	S002040	S003040	S004040	S005040	S006040	S007040	S008040	S009040	S010040	S011040	S012040
	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU	T1	T1	T1
	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm
Quartz	0.45	0.05	1.09	0.00	0.00	0.40	1.18	0.00	1.08	0.98	0.00	0.91
Plagioclase	70.37	61.19	28.23	82.83	79.78	23.37	23.24	81.17	19.94	18.33	18.36	17.78
Orthoclase	1.54	1.54	0.83	3.60	4.90	1.06	1.42	7.09	1.36	1.12	1.71	1.71
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.44	7.74	8.81	2.89	5.42	9.18	7.35	3.26	7.76	5.22	6.51	8.54
Hypersthene	19.91	28.03	58.79	8.86	6.32	62.95	64.46	3.42	67.48	71.74	68.60	68.55
Olivine	0.00	0.00	0.00	0.78	2.66	0.00	0.00	4.34	0.00	0.00	2.37	0.00
Ilmenite	0.34	0.38	0.49	0.46	0.34	0.97	0.61	0.27	0.53	0.53	0.40	0.55
Magnetite	0.87	1.03	1.68	0.49	0.51	1.90	1.65	0.39	1.75	2.00	2.00	1.86
Apatite	0.09	0.05	0.09	0.09	0.07	0.19	0.09	0.07	0.09	0.07	0.05	0.12
Total	100.01	100.01	100.01	100.00	100.00	100.02	100.00	100.01	99.99	99.99	100.00	100.02

UMT040 – CIPW norms data continued

	S013040	S014040	S015040	S016040	S017040	S018040	S019040	S020040	S021040	S022040	S023040	S024040
	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm
Quartz	0.00	0.50	0.00	0.00	0.12	0.06	0.17	0.25	0.40	0.12	0.00	0.88
Plagioclase	19.04	10.73	18.83	14.51	19.66	12.90	18.53	17.00	16.81	15.94	17.58	14.36
Orthoclase	1.48	1.12	0.89	1.12	0.65	0.95	0.89	0.89	1.00	1.42	0.95	1.42
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.19	11.92	5.64	8.90	6.37	12.66	6.53	8.44	8.73	6.44	7.71	8.95
Hypersthene	70.31	72.96	72.46	70.43	71.23	70.84	71.75	71.15	70.80	73.57	70.82	71.90
Olivine	0.60	0.00	0.18	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00
Ilmenite	0.38	0.57	0.28	0.47	0.28	0.49	0.34	0.38	0.40	0.51	0.38	0.51
Magnetite	1.90	2.10	1.67	2.02	1.67	2.06	1.75	1.86	1.83	1.90	1.83	1.93
Apatite	0.09	0.09	0.05	0.07	0.02	0.05	0.05	0.05	0.05	0.12	0.05	0.05
Total	99.99	99.99	100.00	100.01	100.00	100.01	100.01	100.02	100.02	100.02	100.01	100.00

UMT040 – CIPW norms data continued

	S025040	S026040	S027040	S028040	S029040	S030040	S031040	S032040	S033040	S034040	S035040	S036040
	T1	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Lower	T2 Lower	T2 Lower
	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm
Quartz	0.00	0.76	0.25	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plagioclase	18.49	14.94	18.31	19.05	6.50	18.30	9.47	10.90	8.18	11.05	12.75	9.96
Orthoclase	1.06	1.42	1.60	1.42	1.60	1.89	0.83	1.00	0.24	1.18	0.35	0.89
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.40	10.63	8.81	8.16	11.78	10.72	7.67	5.21	8.75	3.48	2.26	3.75
Hypersthene	70.74	69.76	68.86	68.50	76.00	64.01	76.11	75.04	73.71	14.26	13.19	47.21
Olivine	1.13	0.00	0.00	0.00	0.99	2.54	3.09	5.18	6.31	66.85	68.49	35.10
Ilmenite	0.32	0.49	0.36	0.38	0.57	0.51	0.46	0.34	0.57	0.19	0.17	0.34
Magnetite	1.81	1.90	1.75	1.74	2.51	1.93	2.35	2.26	2.20	2.91	2.74	2.67
Apatite	0.05	0.09	0.05	0.07	0.05	0.09	0.02	0.05	0.02	0.07	0.05	0.09
Total	100.00	99.99	99.99	100.00	100.00	99.99	100.00	99.98	99.98	99.99	100.00	100.01

UMT040 – CIPW norms data continued

	S037040	S038040	S039040	S040040	S041040	S042040	S043040
	T2 Lower	CZ	CZ	CZ	CZ	CZ	CZ
	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm	wt % Norm
Quartz	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plagioclase	12.99	20.26	17.16	15.41	12.84	27.49	21.93
Orthoclase	0.71	0.89	0.89	0.47	0.18	1.48	1.36
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.52	7.19	14.21	7.94	4.27	6.80	8.23
Hypersthene	20.70	64.62	61.35	58.79	68.88	57.56	58.09
Olivine	55.93	4.72	3.88	14.82	11.30	4.66	7.97
Ilmenite	0.25	0.36	0.42	0.36	0.34	0.30	0.36
Magnetite	2.84	1.93	2.00	2.16	2.15	1.68	2.02
Apatite	0.05	0.05	0.07	0.05	0.05	0.02	0.05
Total	99.99	100.02	99.98	100.00	100.01	99.99	100.01

UMT063 – CIPW norms data

	S039063	S001063	S002063	S003063	S004063	S005063	S006063	S007063	S008063	S040063	S009063	S010063
	MZ	MZ	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU	T1
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	2.30	7.48	2.55	1.49	1.45	2.47	0.67	0.16	1.38	0.00	0.98	0.55
Plagioclase	66.70	53.81	26.73	66.83	32.94	31.70	67.36	50.53	22.43	62.82	24.47	21.98
Orthoclase	3.90	3.01	1.83	2.54	1.71	1.54	2.25	1.42	1.36	3.19	1.00	0.89
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	10.24	22.36	9.11	6.60	8.46	7.97	7.63	8.50	7.64	5.81	9.05	9.14
Hypersthene	15.25	10.94	57.06	21.02	53.13	54.00	20.80	37.57	64.83	26.75	62.22	65.18
Olivine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
Ilmenite	0.51	1.35	0.66	0.57	0.55	0.66	0.36	0.44	0.53	0.42	0.47	0.44
Magnetite	0.93	0.80	1.94	0.86	1.68	1.57	0.86	1.32	1.74	0.86	1.73	1.75
Apatite	0.16	0.25	0.12	0.09	0.09	0.09	0.07	0.07	0.09	0.09	0.07	0.07
Total	99.99	100.00	100.00	100.00	100.01	100.00	100.00	100.01	100.00	100.00	99.99	100.00

UMT063 – CIPW norms data continued

	S011063	S012063	S013063	S014063	S015063	S016063	S017063	S018063	S019063	S020063	S021063	S022063
	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.66	0.32	0.23	0.00	0.00	0.00	0.78	0.00	1.40	0.04	0.00	0.00
Plagioclase	20.54	20.43	19.67	15.28	25.51	23.54	19.92	23.00	14.51	22.57	23.13	21.03
Orthoclase	0.89	0.77	0.83	1.42	1.42	0.89	1.30	0.83	2.01	1.00	0.83	0.83
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	9.23	8.61	9.90	12.65	7.89	6.62	9.77	7.11	12.76	7.23	6.33	6.29
Hypersthene	66.47	67.65	67.03	67.34	59.87	64.02	65.92	66.29	66.70	67.12	66.96	67.91
Olivine	0.00	0.00	0.00	0.40	3.01	2.73	0.00	0.76	0.00	0.00	0.80	1.97
Ilmenite	0.40	0.42	0.44	0.61	0.42	0.30	0.47	0.32	0.65	0.34	0.30	0.28
Magnetite	1.77	1.77	1.84	2.20	1.81	1.86	1.75	1.64	1.86	1.64	1.61	1.64
Apatite	0.05	0.05	0.05	0.09	0.07	0.05	0.07	0.05	0.12	0.05	0.05	0.05
Total	100.01	100.02	99.99	99.99	100.00	100.01	99.98	100.00	100.01	99.99	100.01	100.00

UMT063 – CIPW norms data continued

	S023063	S024063	S025063	S026063	S027063	S028063	S029063	S030063	S031063	S032063	S033063	S034063
	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00
Plagioclase	9.70	20.95	13.25	20.47	21.17	72.40	15.76	14.01	11.09	10.99	14.04	21.87
Orthoclase	0.71	1.18	0.95	2.07	1.12	2.78	0.65	1.71	1.65	0.53	0.89	0.95
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.98	7.34	6.50	8.82	6.74	7.97	9.09	2.86	4.90	11.26	13.83	15.96
Hypersthene	74.32	63.12	74.08	64.72	43.31	14.22	69.17	14.20	27.95	72.81	68.33	53.78
Olivine	5.39	5.18	2.80	1.44	23.86	0.00	2.96	64.18	51.30	1.97	0.48	5.08
Ilmenite	0.40	0.30	0.34	0.47	0.38	0.47	0.36	0.23	0.30	0.44	0.47	0.44
Magnetite	2.42	1.87	2.04	1.90	3.35	0.78	1.94	2.70	2.71	1.96	1.90	1.86
Apatite	0.07	0.05	0.05	0.09	0.07	0.12	0.05	0.12	0.07	0.05	0.07	0.07
Total	99.99	99.99	100.01	99.98	100.00	100.01	99.98	100.01	99.97	100.01	100.01	100.01

UMT063 – CIPW norms data continued

	S035063	S036063	S037063	S038063
	T2 Upper	CZ	CZ	CZ
	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.00	0.00	0.00	0.00
Plagioclase	16.42	13.44	25.12	20.50
Orthoclase	0.41	0.06	1.48	0.71
Corundum	0.00	0.00	0.00	0.00
Diopside	31.55	45.54	53.90	23.98
Hypersthene	41.26	26.04	0.00	16.93
Olivine	8.14	12.74	17.30	35.68
Ilmenite	0.51	0.49	0.78	0.27
Magnetite	1.67	1.64	1.20	1.87
Apatite	0.05	0.05	0.05	0.05
Total	100.01	100.00	100.00	99.99

UMT064 – CIPW norms data

	S001064	S002064	S003064	S004064	S005064	S006064	S007064	S008064	S009064	S010064	S011064	S012064
	NCU	NCU	NCU	T1	T1	T1	T1	T1	T1	T1	T1	T1
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	1.12	1.33	0.00	1.69	0.00	0.09	0.00	0.00	2.88	0.97	6.92	0.00
Plagioclase	21.49	19.84	17.43	21.45	15.40	17.69	23.62	20.17	30.11	17.13	21.71	19.98
Orthoclase	2.42	2.60	2.60	3.72	2.25	2.19	2.36	2.30	10.22	2.90	9.75	2.30
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	7.67	8.25	7.74	7.57	10.55	11.47	5.61	7.30	9.44	9.20	5.04	8.93
Hypersthene	64.74	65.50	69.32	63.21	67.21	66.17	64.15	64.14	44.88	67.22	53.49	64.77
Olivine	0.00	0.00	0.36	0.00	1.72	0.00	1.86	3.52	0.00	0.00	0.00	1.71
Ilmenite	0.66	0.68	0.68	0.65	0.65	0.63	0.55	0.55	0.89	0.65	1.23	0.57
Magnetite	1.77	1.70	1.75	1.61	2.10	1.71	1.78	1.94	1.38	1.86	1.48	1.65
Apatite	0.12	0.09	0.12	0.09	0.12	0.07	0.05	0.07	0.21	0.09	0.39	0.09
Total	99.99	99.99	100.00	99.99	100.00	100.02	99.98	99.99	100.01	100.02	100.01	100.00

UMT064 – CIPW norms data continued

	S013064	S014064	S015064	S016064	S017064	S018064	S019064	S020064	S021064	S022064	S023064	S024064
	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.19	0.33	1.74	0.00	0.24	0.00	0.82	0.37	0.18	0.76	0.81	0.00
Plagioclase	20.57	18.47	15.71	18.15	19.11	18.38	17.30	17.67	18.44	16.62	10.36	8.64
Orthoclase	2.54	2.36	3.37	2.54	2.30	2.36	2.30	2.36	2.25	2.60	3.37	1.71
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	6.87	8.04	8.59	6.67	7.81	9.22	8.45	10.32	8.89	10.49	16.68	11.16
Hypersthene	67.56	68.46	68.10	70.11	68.23	67.03	68.72	66.89	67.85	67.08	65.57	65.55
Olivine	0.00	0.00	0.00	0.01	0.00	0.61	0.00	0.00	0.00	0.00	0.00	10.11
Ilmenite	0.57	0.57	0.68	0.63	0.59	0.59	0.63	0.63	0.63	0.63	0.85	0.57
Magnetite	1.64	1.67	1.74	1.74	1.65	1.71	1.71	1.70	1.71	1.73	2.32	2.19
Apatite	0.07	0.09	0.07	0.14	0.05	0.09	0.07	0.07	0.05	0.09	0.05	0.07
Total	100.01	99.99	100.00	99.99	99.98	99.99	100.00	100.01	100.00	100.00	100.01	100.00

UMT064 – CIPW norms data continued

	S025064	S026064	S027064	S028064	S029064	S030064	S031064	S032064	S033064	S034064	S035064	S036064
	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.50	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plagioclase	17.46	18.14	7.64	14.52	7.30	23.88	17.19	11.05	9.41	11.36	16.29	17.80
Orthoclase	2.30	2.42	2.42	2.42	4.49	2.25	1.95	1.60	1.54	1.65	2.42	2.30
Corundum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diopside	10.24	10.86	21.00	5.90	3.69	5.36	10.07	3.93	6.25	6.50	6.87	2.43
Hypersthene	67.15	63.70	64.04	73.02	24.46	61.42	67.34	68.87	65.31	66.61	63.63	57.35
Olivine	0.00	2.44	0.00	1.43	56.68	4.83	1.07	11.87	14.12	11.09	8.07	17.40
Ilmenite	0.59	0.61	0.72	0.61	0.47	0.49	0.59	0.53	0.57	0.53	0.55	0.53
Magnetite	1.73	1.75	1.81	2.00	2.84	1.73	1.74	2.09	2.73	2.19	2.10	2.15
Apatite	0.05	0.07	0.07	0.07	0.05	0.05	0.07	0.05	0.07	0.07	0.05	0.05
Total	100.02	99.99	99.98	99.97	99.98	100.01	100.02	99.99	100.00	100.00	99.98	100.01

UMT064 – CIPW norms data continued

	S037064	S038064	S039064	S040064	S041064
	T2 Upper	T2 Upper	T2 Upper	CZ	CZ
	wt% Norm	wt% Norm	wt% Norm	wt% Norm	wt% Norm
Quartz	0.00	0.00	0.00	0.00	0.00
Plagioclase	13.27	19.63	16.11	24.01	12.16
Orthoclase	2.25	1.71	1.71	2.78	2.13
Corundum	0.00	0.00	0.00	0.00	0.00
Diopside	23.65	2.18	34.54	50.45	17.67
Hypersthene	41.11	52.71	24.12	18.17	36.52
Olivine	16.96	20.95	20.80	2.72	28.45
Ilmenite	0.66	0.51	0.70	0.72	0.57
Magnetite	2.03	2.25	1.94	1.10	2.45
Apatite	0.07	0.05	0.07	0.05	0.07
Total	100.00	99.99	99.99	100.00	100.02

UMT040 – trace element data

Sample no.	S001040	S002040	S003040	S004040	S005040	S006040	S007040	S008040
Depth (m)	770.53 - 770.68	776.46 - 776.63	780.33 - 780.49	782.18 - 782.36	783.07 - 783.25	792.46 - 792.62	798.21 - 798.37	798.65 - 798.76
Stratigraphy	NCU	NCU	NCU	NCU	NCU	NCU	NCU	NCU
Sc	21.72	21.95	33.24	15.34	17.14	32.17	28.15	12.81
V	90.96	107.38	163.21	52.57	60.89	162.41	145.44	35.55
Cr	326.84	608.59	1519.76	130.82	183.45	1954.36	2021.75	207.73
Co	34.60	47.31	86.81	17.52	18.63	88.74	84.43	12.33
Ni	154.98	187.45	544.30	69.88	75.77	481.02	510.84	61.26
Cu	14.15	32.26	91.77	35.52	22.65	37.77	32.07	13.43
Zn	38.88	49.22	78.77	23.03	21.01	95.63	80.20	16.43
Ga	18.63	15.95	9.04	20.14	18.61	10.10	7.84	19.39
Rb	5.89	3.65	5.20	21.01	31.13	5.92	9.56	49.16
Sr	303.52	250.03	106.58	364.02	338.59	96.13	83.64	309.83
Y	6.92	5.60	8.44	2.73	4.28	8.59	8.42	1.67
Zr	16.72	9.90	26.31	15.24	13.71	23.74	31.10	12.62
Nb	2.63	2.25	4.24	0.99	1.49	2.73	1.27	0.84
Mo	0.17	0.17	0.80	0.25	0.50	0.50	0.00	0.84
Ba	116.36	132.74	45.78	167.02	185.61	82.74	98.85	216.42
Pb	1.53	4.44	0.54	0.00	0.60	0.81	2.23	2.38
Th	3.66	2.72	4.90	2.21	2.85	2.99	1.92	1.59
U	0.11	1.39	0.00	0.00	1.42	0.00	2.26	2.62
Cr/V	3.59	5.67	9.31	2.49	3.01	12.03	13.90	5.84
Nb/Th	0.72	0.83	0.87	0.45	0.52	0.91	0.66	0.53

UMT040 – trace element data continued

Sample no.	S009040	S010040	S011040	S012040	S013040	S014040	S015040	S016040
Depth (m)	799.17 - 799.29	800.78 - 800.92	802.19 - 802.34	802.77 - 802.89	803.03 - 803.19	803.56 - 803.71	813.32 - 813.46	814.03 - 814.15
Stratigraphy	NCU	T1	T1	T1	T1	T1	T1	T1
Sc	30.90	27.67	29.03	32.87	29.77	39.07	30.14	34.53
V	155.35	149.96	132.10	154.18	132.79	183.83	141.12	162.08
Cr	2100.14	2166.20	2270.88	2316.00	2267.36	2573.17	2658.38	2457.76
Co	87.31	111.12	129.25	107.00	118.50	118.33	89.91	96.79
Ni	526.26	1903.70	3220.62	2001.82	2788.99	2009.03	591.18	721.63
Cu	36.75	1281.59	1687.03	860.51	1446.60	987.61	145.82	139.56
Zn	87.85	103.76	101.28	104.81	90.30	103.43	77.77	94.89
Ga	7.19	5.26	7.31	7.05	7.16	4.74	8.24	6.49
Rb	10.37	9.80	13.04	17.01	12.13	11.56	7.37	8.21
Sr	63.94	51.30	62.12	53.76	68.80	29.27	61.12	47.50
Y	9.06	10.39	6.58	8.41	4.98	9.49	4.11	7.77
Zr	31.67	21.15	13.73	21.49	14.98	32.20	11.28	26.65
Nb	2.82	2.11	1.33	2.62	0.70	2.69	1.34	2.51
Mo	0.00	0.74	1.50	1.18	0.00	0.00	0.00	1.44
Ba	73.53	57.50	54.42	51.28	60.84	43.52	57.71	59.94
Pb	0.61	4.87	4.76	7.84	9.05	4.38	2.73	3.75
Th	3.15	3.25	2.96	1.77	1.37	0.02	0.21	1.51
U	0.00	0.00	0.00	0.00	0.00	1.32	2.10	0.80
Cr/V	13.52	14.45	17.19	15.02	17.07	14.00	18.84	15.16
Nb/Th	0.90	0.65	0.45	1.48	0.51	134.50	6.38	1.66

UMT040 - trace element data continued

Sample no.	S017040	S018040	S019040	S020040	S021040	S022040	S023040	S024040
Depth (m)	815.01 - 815.13	815.28 - 815.44	816.33 - 816.49	817.67 - 817.83	818.44 - 818.58	824.29 - 824.40	826.05 - 826.21	826.36 - 826.51
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
Sc	28.51	38.06	30.35	30.18	32.94	29.01	30.20	33.62
V	152.30	175.76	152.07	166.63	171.64	183.77	197.65	218.47
Cr	2650.49	2644.60	2561.73	2563.28	2565.55	2480.00	2547.50	2519.57
Co	89.76	105.91	95.89	95.36	89.23	100.34	96.97	98.86
Ni	641.51	1429.21	643.14	602.11	603.70	995.66	940.35	997.38
Cu	190.61	500.16	171.74	114.76	119.77	252.48	237.22	242.12
Zn	76.29	101.02	79.87	88.41	84.44	86.45	79.15	85.55
Ga	6.83	3.75	5.69	5.87	4.98	6.07	6.18	7.20
Rb	5.84	6.80	6.05	6.29	7.44	10.80	7.20	11.73
Sr	65.17	39.08	63.85	54.72	56.06	52.73	55.37	44.93
Y	2.78	7.89	3.50	4.17	3.89	4.34	4.43	6.50
Zr	8.67	22.03	12.59	12.17	17.26	23.11	12.55	23.74
Nb	1.43	3.01	2.44	2.53	3.62	3.04	3.06	2.99
Mo	0.45	1.25	0.38	0.92	0.51	0.48	0.00	2.21
Ba	48.97	46.56	59.69	48.95	61.58	80.98	56.78	63.29
Pb	1.98	2.43	1.36	3.43	3.04	4.91	1.54	5.19
Th	0.00	3.07	4.69	2.74	4.47	3.52	4.41	7.19
U	2.21	0.63	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	17.40	15.05	16.85	15.38	14.95	13.50	12.89	11.53
Nb/Th	0.00	0.98	0.52	0.92	0.81	0.86	0.69	0.42

UMT040 - trace element data continued

Sample no.	S025040	S026040	S027040	S028040	S029040	S030040	S031040	S032040
Depth (m)	827.01 - 827.16	827.32 - 827.68	832.73 - 832.87	838.02 - 838.17	841.40 - 841.55	843.41 - 843.57	844.46 - 844.60	849.03 - 849.18
Stratigraphy	T1	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
Sc	31.71	33.16	35.34	34.71	35.34	33.85	29.60	29.10
V	196.76	230.49	204.95	180.66	197.80	161.62	233.38	159.08
Cr	2542.20	2580.86	2555.05	2467.44	2660.45	2304.82	2311.95	1738.97
Co	91.01	93.56	89.15	88.24	205.53	152.65	190.11	190.68
Ni	834.48	985.91	837.92	703.75	7469.78	5505.79	8150.12	6835.89
Cu	217.94	272.59	218.88	163.16	4111.83	2151.23	2593.87	2779.31
Zn	78.78	82.45	74.08	73.16	97.44	76.75	93.85	89.05
Ga	7.50	5.22	6.94	6.79	3.86	5.50	4.05	4.45
Rb	7.81	10.04	12.39	12.93	14.88	14.31	8.60	9.63
Sr	61.66	51.16	63.27	58.75	17.31	56.76	26.01	28.17
Y	2.69	6.50	3.07	2.70	5.16	5.48	4.05	1.76
Zr	14.88	25.84	17.55	20.52	56.44	21.38	27.94	18.57
Nb	1.75	3.22	2.66	2.08	1.56	5.97	0.53	0.25
Mo	0.02	0.91	1.05	0.42	0.34	2.48	0.44	0.77
Ba	70.32	66.88	75.05	67.62	59.16	83.03	42.70	44.99
Pb	1.65	1.59	1.09	2.15	7.37	35.99	5.65	5.97
Th	7.18	7.60	8.56	5.15	3.08	5.70	3.24	4.55
U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	12.92	11.20	12.47	13.66	13.45	14.26	9.91	10.93
Nb/Th	0.24	0.42	0.31	0.40	0.51	1.05	0.16	0.05

UMT040 - trace element data continued

Sample no.	S033040	S034040	S035040	S036040	S037040	S038040	S039040	S040040
Depth (m)	850.02 - 850.17	851.81 - 851.94	853.53 - 853.70	857.10 - 857.27	858.65 - 858.80	859.12 - 859.27	862.10 - 862.24	864.22 - 864.31
Stratigraphy	T2 Upper	T2 Lower	T2 Lower	T2 Lower	T2 Lower	CZ	CZ	CZ
Sc	33.41	9.97	9.29	19.84	13.42	27.90	28.23	23.94
V	207.48	48.01	73.55	219.90	152.52	368.47	449.59	305.79
Cr	2005.93	338.11	228.79	844.53	449.53	1297.35	1672.27	2443.10
Co	180.05	227.72	159.22	216.65	264.00	175.36	188.35	90.85
Ni	5656.03	6243.07	2855.71	3295.76	4510.38	3386.25	3605.19	1335.07
Cu	1850.69	2363.01	1250.55	2491.19	1898.71	1617.32	1457.31	1172.41
Zn	88.91	89.11	72.85	103.64	82.19	89.84	75.34	68.25
Ga	5.30	4.41	3.92	4.22	2.92	7.28	6.27	5.37
Rb	4.88	6.44	1.00	8.47	4.62	7.33	4.63	5.55
Sr	3.79	41.29	30.86	21.01	38.03	110.34	86.70	6.03
Y	6.49	1.45	1.99	3.58	2.83	4.53	5.40	2.95
Zr	25.60	14.06	7.77	33.80	28.44	13.56	11.57	10.52
Nb	1.42	1.41	1.75	2.74	2.88	1.33	1.79	1.97
Mo	0.69	0.00	0.22	1.50	2.18	1.84	0.67	1.14
Ba	14.29	52.95	16.46	33.21	42.75	86.20	50.49	20.11
Pb	0.92	9.31	7.81	5.75	5.48	34.50	3.52	3.63
Th	3.65	4.02	4.89	6.55	5.15	0.35	4.95	3.60
U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	9.67	7.04	3.11	3.84	2.95	3.52	3.72	7.99
Nb/Th	0.39	0.35	0.36	0.42	0.56	3.80	0.36	0.55

UMT040 - trace element data continued

Sample no.	S041040	S042040	S043040
Depth (m)	864.56 - 864.69	865.02 - 865.17	865.77 - 865.92
Stratigraphy	CZ	CZ	CZ
Sc	21.88	27.46	26.36
V	372.36	342.05	378.69
Cr	4058.79	2415.48	2341.43
Co	122.01	119.59	211.81
Ni	1471.84	1482.21	4503.67
Cu	812.59	756.20	1574.07
Zn	74.68	65.03	73.82
Ga	5.22	8.36	7.12
Rb	3.16	8.37	8.29
Sr	4.11	177.42	134.52
Y	1.74	1.10	3.04
Zr	6.67	8.16	13.24
Nb	0.95	1.14	1.59
Mo	0.45	0.51	2.60
Ba	19.45	213.46	74.47
Pb	0.00	3.07	3.40
Th	0.73	3.05	3.22
U	0.00	0.00	0.00
Cr/V	10.90	7.06	6.18
Nb/Th	1.30	0.37	0.49

UMT063 – trace element data

Sample no.	S039063	S001063	S002063	S003063	S004063	S005063	S006063	S007063
Depth (m)	780.57 - 780.72	787.60 - 787.74	788.82 - 788.96	795.26 - 795.41	797.14 - 797.3	801.20 - 801.31	802.25 - 802.42	807.56 - 807.72
Stratigraphy	MZ	MZ	NCU	NCU	NCU	NCU	NCU	NCU
Sc	20.47	20.93	31.07	20.13	28.68	26.09	21.49	24.96
V	107.79	88.65	190.79	88.40	159.08	152.02	93.01	126.45
Cr	175.47	197.43	1112.76	347.38	1160.37	1236.30	389.21	861.30
Co	28.56	32.56	84.97	38.54	78.80	85.80	35.73	56.99
Ni	81.79	137.55	681.33	161.88	755.43	965.74	236.69	256.15
Cu	31.91	58.73	168.58	47.32	226.04	264.36	85.26	45.58
Zn	48.30	37.49	96.40	37.78	82.18	74.11	44.23	67.76
Ga	18.41	18.03	10.72	17.74	10.23	9.08	15.67	15.24
Rb	17.22	13.30	12.11	12.57	9.98	10.59	9.08	2.86
Sr	279.95	299.28	106.39	286.41	129.70	130.17	292.69	204.76
Y	9.64	6.20	9.71	3.77	6.76	9.53	6.97	6.25
Zr	41.47	30.09	63.17	21.27	37.32	47.68	18.69	13.09
Nb	2.24	1.75	3.45	2.54	2.60	5.72	2.56	2.63
Mo	0.97	0.46	1.33	0.62	0.51	1.22	1.25	0.74
Ba	229.33	164.09	82.13	156.47	81.97	65.15	140.74	113.39
Pb	4.51	4.59	2.63	2.61	3.39	4.94	2.08	2.85
Th	2.86	0.96	2.25	1.01	6.35	7.09	5.65	6.26
U	0.49	2.70	2.60	1.50	2.72	1.00	2.65	3.01
Cr/V	1.63	2.23	5.83	3.93	7.29	8.13	4.18	6.81
Nb/Th	0.78	1.82	1.53	2.51	0.41	0.81	0.45	0.42

UMT063 - trace element data continued

Sample no.	S008063	S040063	S009063	S010063	S011063	S012063	S013063	S014063
Depth (m)	810.67 - 810.79	812.40 - 812.53	812.82 - 812.97	813.50 - 813.64	816.57 - 816.74	817.34 - 817.48	817.78 - 817.94	818.44 - 818.59
Stratigraphy	NCU	NCU	NCU	T1	T1	T1	T1	T1
Sc	32.21	24.86	32.02	29.11	31.53	32.16	30.57	33.48
V	178.41	89.75	176.68	162.82	162.94	158.82	162.88	188.63
Cr	2017.37	812.61	2167.97	2130.54	2190.18	2158.08	2153.92	2453.83
Co	86.08	45.02	91.45	90.12	88.86	89.98	94.04	165.48
Ni	684.78	226.52	528.43	534.68	578.99	554.39	1042.41	5557.75
Cu	35.15	46.02	33.45	26.99	59.54	68.11	422.94	2640.14
Zn	81.94	39.29	97.65	82.97	83.03	83.97	84.21	92.26
Ga	8.62	15.69	7.59	7.71	7.11	6.34	7.29	6.07
Rb	8.51	15.11	8.74	4.54	6.40	4.38	3.93	10.24
Sr	79.62	254.41	50.55	78.80	77.92	73.40	68.61	50.54
Y	6.04	6.49	4.92	5.08	4.22	2.82	4.13	9.17
Zr	27.55	20.87	24.58	16.21	14.79	13.92	17.28	44.06
Nb	3.71	1.36	0.58	0.13	0.43	0.60	0.93	5.47
Mo	0.08	0.28	0.39	0.00	0.15	1.03	1.19	1.50
Ba	90.93	197.88	42.52	71.33	66.28	56.73	58.18	69.60
Pb	0.06	1.52	3.74	1.47	1.00	1.35	2.90	8.84
Th	6.59	4.04	0.51	0.62	1.33	0.05	1.02	1.18
U	2.31	1.73	2.43	2.49	4.59	3.61	5.26	0.33
Cr/V	11.31	9.05	12.27	13.09	13.44	13.59	13.22	13.01
Nb/Th	0.56	0.34	1.14	0.21	0.32	12.00	0.91	4.64

UMT063 - trace element data continued

Sample no.	S015063	S016063	S017063	S018063	S019063	S020063	S021063	S022063
Depth (m)	819.12 - 819.24	819.69 - 819.85	820.80 - 820.96	821.22 - 821.37	822.05 - 822.22	823.62 - 823.78	824.42 - 824.54	825.09 - 825.24
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
Sc	29.95	21.70	30.28	28.04	32.06	25.36	29.97	25.09
V	131.85	121.34	145.89	118.48	167.31	118.07	113.60	108.54
Cr	2315.31	2504.56	2466.74	2602.54	2515.33	2434.35	2488.17	2499.41
Co	132.00	142.82	93.78	94.81	94.05	93.79	95.92	87.83
Ni	3635.22	4315.64	1092.67	927.96	1124.51	911.69	1051.88	895.96
Cu	1642.66	1708.41	362.43	215.07	303.79	231.43	348.93	236.50
Zn	74.84	79.21	79.00	74.23	85.51	77.79	70.85	74.07
Ga	6.99	7.06	6.45	8.78	5.78	6.92	6.31	7.32
Rb	8.25	4.89	8.41	4.68	13.13	6.00	5.78	5.30
Sr	97.91	87.06	65.54	80.09	43.92	79.12	89.16	75.75
Y	4.39	2.99	5.82	3.45	9.73	4.69	3.17	2.63
Zr	14.39	11.45	28.18	11.09	40.47	13.73	9.33	8.67
Nb	1.57	2.41	2.68	1.99	3.60	2.67	2.60	2.64
Mo	0.06	1.40	0.56	1.28	0.55	0.68	0.46	0.76
Ba	83.56	56.86	81.41	49.92	70.26	60.80	56.07	56.19
Pb	6.67	6.81	3.07	1.05	2.74	3.56	1.42	2.14
Th	2.17	0.61	0.02	1.45	8.45	2.34	0.53	2.16
U	2.33	0.18	3.54	2.55	2.13	0.02	1.32	1.10
Cr/V	17.56	20.64	16.91	21.97	15.03	20.62	21.90	23.03
Nb/Th	0.72	3.95	134.00	1.37	0.43	1.14	4.91	1.22

UMT063 - trace element data continued

Sample no.	S023063	S024063	S025063	S026063	S027063	S028063	S029063	S030063
Depth (m)	825.76 - 825.92	826.50 - 826.67	827.58 - 827.74	828.15 - 828.32	830.59 - 830.75	832.30 - 832.48	833.52 - 833.69	837.00 - 837.12
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
Sc	29.16	23.77	29.73	30.06	24.19	23.75	27.01	8.93
V	125.59	110.22	117.03	123.98	113.55	96.09	127.48	39.66
Cr	2895.65	2642.66	2755.54	2424.55	2041.30	713.37	2379.66	309.50
Co	240.19	149.63	154.32	144.84	579.28	63.31	155.79	224.50
Ni	9754.58	4517.68	4567.71	4697.81	30707.40	2078.91	4114.51	6053.65
Cu	5905.20	2168.99	2666.52	1992.48	11895.90	667.36	1913.74	2071.56
Zn	95.73	72.58	85.48	77.12	76.62	21.32	76.33	78.44
Ga	4.29	6.01	6.45	7.71	7.25	15.46	6.33	4.77
Rb	4.72	6.57	5.97	11.88	5.00	17.16	5.56	14.26
Sr	22.72	73.07	35.28	78.17	71.52	170.20	49.78	57.60
Y	3.67	3.06	2.16	5.35	1.52	8.08	3.33	1.55
Zr	18.90	15.10	23.59	29.39	12.51	78.64	17.76	21.20
Nb	4.32	2.92	2.06	2.63	4.00	7.30	2.02	3.32
Mo	1.44	0.12	1.34	1.86	2.49	0.86	1.10	1.20
Ba	33.44	70.15	63.91	114.82	73.48	109.11	49.37	49.25
Pb	11.69	5.59	8.38	7.90	17.00	23.01	6.42	17.58
Th	0.79	1.14	3.85	4.29	5.68	3.91	4.35	0.11
U	0.46	1.92	1.96	0.33	4.33	0.43	2.40	2.58
Cr/V	23.06	23.98	23.55	19.56	17.98	7.42	18.67	7.80
Nb/Th	5.47	2.56	0.54	0.61	0.70	1.87	0.46	30.18

UMT063 - trace element data continued

Sample no.	S031063	S032063	S033063	S034063	S035063	S036063	S037063	S038063
Depth (m)	841.23 - 841.37	845.05 - 845.22	847.49 - 847.67	850.48 - 851.62	851.21 - 851.37	852.73 - 852.81	857.34 - 857.51	857.34 - 857.51
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	CZ	CZ	CZ
Sc	9.96	30.36	36.70	33.28	45.52	40.26	45.21	27.52
V	65.76	172.51	185.06	165.52	230.54	146.60	199.30	279.41
Cr	759.00	2036.62	2179.04	2035.01	2331.92	1991.25	1753.20	1806.03
Co	242.89	127.53	117.17	160.46	84.65	109.42	74.65	149.80
Ni	6757.97	1717.11	1847.04	4382.88	815.71	817.44	847.09	1133.39
Cu	2713.06	845.00	1181.16	3173.27	425.78	201.93	275.60	417.22
Zn	94.67	78.61	82.45	72.15	58.38	46.87	49.60	59.50
Ga	4.32	5.41	6.45	7.62	5.42	6.20	9.40	3.73
Rb	12.47	3.85	6.45	6.33	2.53	0.50	9.56	4.63
Sr	40.81	30.77	43.70	56.00	25.34	14.47	131.94	73.04
Y	2.08	7.06	7.46	6.24	8.12	6.52	9.79	3.76
Zr	20.33	14.84	18.92	21.21	25.44	31.48	52.70	7.33
Nb	3.91	2.71	2.45	2.98	1.70	1.45	1.32	0.48
Mo	0.81	0.87	0.61	0.23	0.34	0.34	1.93	0.28
Ba	72.08	39.66	57.25	43.58	20.53	7.56	221.03	22.60
Pb	12.56	1.67	5.47	7.45	13.47	6.58	1.19	2.80
Th	2.29	0.94	0.86	2.69	2.22	1.85	0.39	0.05
U	2.01	1.19	3.19	2.11	0.79	1.74	1.81	1.61
Cr/V	11.54	11.81	11.77	12.29	10.12	13.58	8.80	6.46
Nb/Th	1.71	2.88	2.85	1.11	0.77	0.78	3.38	9.60

UMT064 – trace element data

Sample no.	S001064	S002064	S003064	S004064	S005064	S006064	S007064	S008064
Depth (m)	804.47 - 804.61	807.99 - 808.14	815.71 - 815.86	816.72 - 816.87	818.30 - 818.45	818.92 - 819.07	820.21 - 820.36	822.50 - 822.65
Stratigraphy	NCU	NCU	NCU	T1	T1	T1	T1	T1
Sc	35.04	32.88	31.41	29.01	28.19	34.32	25.86	26.50
V	174.13	153.47	144.63	137.83	140.71	190.77	114.30	125.14
Cr	2041.94	2116.82	2186.17	2081.53	2279.35	3205.83	2649.75	2640.50
Co	92.95	89.79	87.61	90.41	178.57	229.03	133.75	157.79
Ni	578.38	559.27	564.85	579.17	6419.40	10415.70	4091.14	5641.18
Cu	60.37	59.06	35.30	77.50	3327.82	6178.11	2609.48	2560.65
Zn	87.08	83.67	84.87	79.61	82.63	89.80	81.28	79.54
Ga	8.98	6.42	7.81	6.57	7.11	5.04	8.90	7.23
Rb	7.52	8.37	7.42	15.37	6.75	25.26	5.60	5.42
Sr	81.73	78.70	58.54	79.60	48.45	22.15	90.85	72.52
Y	4.84	8.13	6.89	9.76	8.07	13.57	4.79	5.65
Zr	24.52	33.41	27.32	39.51	19.57	56.87	12.23	9.20
Nb	2.47	2.68	2.26	3.20	3.86	6.92	1.06	1.35
Mo	0.22	0.68	0.00	0.35	0.46	1.29	0.40	1.59
Ba	67.48	81.58	91.78	153.00	62.59	60.56	84.49	58.13
Pb	3.04	1.05	0.00	2.33	13.76	28.34	8.16	6.60
Th	5.91	6.42	4.81	5.51	8.98	10.37	5.08	3.43
U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	11.73	13.79	15.12	15.10	16.20	16.80	23.18	21.10
Nb/Th	0.42	0.42	0.47	0.58	0.43	0.67	0.21	0.39

UMT064 - trace element data continued

Sample no.	S009064	S010064	S011064	S012064	S013064	S014064	S015064	S016064
Depth (m)	825.27 - 825.41	825.62 - 825.77	826.19 - 826.34	826.8 - 826.95	830.01 - 830.14	831.61 - 831.73	831.86 - 831.99	832.4 - 832.55
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
Sc	26.92	30.64	25.11	32.29	26.17	27.20	30.23	27.90
V	118.20	129.97	129.62	129.98	117.46	126.58	136.64	131.39
Cr	1619.86	2417.53	1741.67	2574.97	2411.82	2478.42	2366.23	2342.23
Co	89.63	102.53	81.23	98.90	89.74	94.32	94.61	96.85
Ni	2284.95	2053.32	1073.21	1070.60	949.13	1002.88	1042.75	1277.27
Cu	986.98	733.93	255.41	354.38	248.71	276.81	302.30	485.54
Zn	57.82	88.03	63.97	78.53	77.71	77.48	86.04	84.71
Ga	11.31	6.71	10.48	7.56	7.82	7.22	7.15	7.12
Rb	44.93	8.83	106.99	6.99	7.73	8.24	17.87	9.05
Sr	126.50	62.63	68.29	73.02	77.13	63.29	53.19	59.97
Y	11.00	9.71	11.55	7.36	7.05	6.84	9.45	6.97
Zr	58.30	24.39	98.52	11.61	11.36	17.74	33.09	24.91
Nb	5.05	2.72	11.03	1.77	1.91	1.78	2.92	2.71
Mo	1.04	1.72	1.95	0.74	1.92	1.24	1.10	0.87
Ba	708.89	89.50	113.15	64.06	89.18	58.87	86.62	56.91
Pb	16.33	6.36	7.95	1.85	2.25	4.19	1.94	3.64
Th	8.15	7.49	9.97	0.71	3.78	2.01	5.27	3.61
U	0.00	1.03	1.06	0.00	0.00	0.85	0.00	0.11
Cr/V	13.70	18.60	13.44	19.81	20.53	19.58	17.32	17.83
Nb/Th	0.62	0.36	1.11	2.49	0.51	0.89	0.55	0.75

UMT064 - trace element data continued

Sample no.	S017064	S018064	S019064	S020064	S021064	S022064	S023064	S024064
Depth (m)	832.78 - 832.91	837.37 - 837.51	837.56 - 837.71	838.16 - 838.27	838.52 - 838.67	843.18 - 843.31	848.48 - 848.63	849.45 - 849.62
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1
Sc	30.23	30.46	35.63	31.50	33.79	34.03	38.86	35.17
V	121.43	138.54	138.13	147.38	143.19	146.30	146.08	146.60
Cr	2491.12	2420.42	2377.94	2375.14	2361.46	2348.10	2508.11	2478.18
Co	91.66	97.76	93.76	91.11	100.50	91.94	91.08	98.55
Ni	1022.12	1056.17	793.65	752.69	1155.67	678.01	719.79	895.95
Cu	348.63	280.61	134.93	133.06	376.12	117.65	135.63	183.99
Zn	77.27	76.51	81.73	74.90	79.49	79.39	79.05	88.91
Ga	5.94	5.55	7.42	6.58	7.09	7.58	6.98	5.96
Rb	8.12	7.12	7.54	6.54	5.28	8.98	6.05	5.58
Sr	65.25	63.84	60.40	63.35	66.29	55.13	59.09	50.85
Y	5.69	6.36	6.16	7.65	6.37	5.23	6.01	3.22
Zr	13.64	14.50	21.40	19.04	15.74	20.80	14.78	10.31
Nb	2.19	1.53	0.98	0.65	0.94	1.52	2.45	0.35
Mo	0.70	0.60	0.98	1.02	1.57	1.48	0.00	0.29
Ba	68.61	73.97	63.90	79.06	62.42	65.21	52.33	42.17
Pb	5.56	4.32	3.10	1.84	4.94	3.08	0.99	3.26
Th	3.60	3.77	0.00	0.00	2.51	5.91	3.19	1.94
U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	20.51	17.47	17.22	16.12	16.49	16.05	17.17	16.90
Nb/Th	0.61	0.41	0.00	0.00	0.37	0.26	0.77	0.18

UMT064 - trace element data continued

Sample no.	S025064	S026064	S027064	S028064	S029064	S030064	S031064	S032064
Depth (m)	851.74 - 851.89	853.51 - 853.67	855.02 - 855.17	856.22 - 856.37	861.45 - 861.59	862.77 - 862.91	868.38 - 868.54	870.04 - 870.21
Stratigraphy	T1	T1	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
Sc	32.05	30.31	36.23	25.89	13.28	24.23	24.02	21.90
V	127.83	124.11	185.15	212.36	63.23	128.87	135.06	144.67
Cr	2442.01	2345.25	2516.73	1773.92	668.93	2342.52	1871.94	2211.33
Co	94.39	94.63	148.93	147.95	291.77	143.10	210.61	118.29
Ni	728.22	814.97	3884.62	4471.61	11667.98	4144.16	6550.13	2767.70
Cu	128.85	196.18	1912.12	2047.24	6235.87	1419.42	3546.15	1381.08
Zn	82.04	81.26	71.49	85.26	104.00	75.37	90.29	77.82
Ga	6.61	5.07	3.72	5.79	4.17	6.61	1.90	5.30
Rb	9.81	10.65	11.28	10.37	39.38	6.38	3.84	4.74
Sr	56.34	47.82	9.69	37.93	19.02	90.80	4.13	3.33
Y	6.02	4.47	6.56	4.81	2.34	2.23	2.67	2.91
Zr	14.03	17.80	32.94	33.27	9.46	6.39	7.09	7.86
Nb	3.10	1.94	0.08	0.00	0.00	0.08	0.00	2.36
Mo	0.93	0.00	0.49	1.17	0.63	0.12	1.11	1.01
Ba	69.66	99.44	25.03	39.90	66.70	88.58	6.58	8.41
Pb	0.94	5.81	5.15	15.94	5.20	2.31	4.80	2.96
Th	5.31	2.95	4.10	3.55	1.01	3.67	3.23	6.04
U	0.00	0.00	0.39	0.00	0.01	0.00	0.00	0.00
Cr/V	19.10	18.90	13.59	8.35	10.58	18.18	13.86	15.29
Nb/Th	0.58	0.66	0.02	0.00	0.00	0.02	0.00	0.39

UMT064 - trace element data continued

Sample no.	S033064	S034064	S035064	S036064	S037064	S038064	S039064	S040064
Depth (m)	871.19 - 871.34	871.67 - 871.82	875.09 - 875.26	875.68 - 875.87	876.45 - 876.59	879.40 - 879.55	882.06 - 882.22	887.57 - 887.73
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	CZ
Sc	19.30	18.25	24.43	21.21	30.53	15.47	40.10	60.52
V	122.01	98.15	211.42	193.51	274.16	176.98	502.42	617.22
Cr	1479.97	1081.55	2090.59	1880.06	1537.05	974.72	2445.09	2858.83
Co	239.30	149.20	178.41	104.17	186.35	115.64	193.97	64.01
Ni	5539.76	3475.35	5130.73	1691.11	4570.67	2122.08	5843.04	355.30
Cu	3208.31	1226.31	2971.33	747.04	2123.25	964.76	3657.37	234.26
Zn	97.58	68.20	93.84	73.37	77.95	80.88	76.36	33.08
Ga	5.36	5.95	4.94	5.54	5.21	6.39	4.39	8.72
Rb	3.90	3.07	10.33	11.35	8.57	6.21	3.48	6.49
Sr	3.87	5.15	45.16	18.93	52.26	13.90	9.19	108.15
Y	2.64	2.74	3.64	4.10	8.17	2.12	9.17	11.06
Zr	7.76	9.82	5.86	7.27	23.61	7.71	16.44	13.13
Nb	2.70	2.78	1.81	3.04	1.92	1.41	2.11	0.66
Mo	1.06	0.39	0.00	1.27	1.06	0.92	1.57	0.38
Ba	12.06	15.52	67.99	26.17	55.25	30.36	14.65	169.35
Pb	6.77	5.19	4.90	0.74	2.53	9.97	4.14	1.64
Th	4.60	6.37	2.11	4.20	5.29	7.58	7.32	3.95
U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr/V	12.13	11.02	9.89	9.72	5.61	5.51	4.87	4.63
Nb/Th	0.59	0.44	0.86	0.72	0.36	0.19	0.29	0.17

UMT064 - trace element data continued

Sample no.	S041064
Depth (m)	892.29 - 892.42
Stratigraphy	CZ
Sc	25.76
V	316.68
Cr	2034.14
Co	184.71
Ni	3384.04
Cu	1638.43
Zn	92.69
Ga	4.70
Rb	4.91
Sr	40.65
Y	3.97
Zr	12.21
Nb	1.86
Mo	1.28
Ba	40.10
Pb	6.85
Th	6.88
U	0.00
Cr/V	6.42
Nb/Th	0.27

UMT064 - Orthopyroxene microprobe data

Sample no.	SO43064			SO45064			SO46064			SO47064		
Depth (m)	819.29 - 819.44			825.75 - 825.90			829.70 - 829.85			832.21 - 832.38		
Analysis no.	1	2	3	1	2	3	1	2	3	1	2	3
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
SiO2	54.87	54.58	54.51	55.33	55.08	55.13	55.36	55.17	54.68	56.04	55.86	55.25
Al2O3	1.22	1.26	1.51	1.38	1.90	1.91	1.44	1.23	1.43	1.15	1.15	1.71
FeO	13.30	12.83	12.83	10.95	10.89	8.72	10.68	11.70	12.04	12.41	12.09	10.64
MnO	0.24	0.29	0.23	0.23	0.21	0.24	0.25	0.18	0.23	0.28	0.23	0.24
MgO	27.90	27.14	27.20	29.34	29.46	24.78	29.55	28.00	27.99	30.19	29.88	27.71
CaO	1.95	2.70	2.30	2.04	1.84	9.48	2.09	3.19	3.27	0.73	0.80	3.56
Na2O	0.03	0.03	0.03	0.01	0.03	0.17	0.01	0.04	0.07	0.01	0.01	0.08
K2O	0.02	0.02	0.01	0.01	0.03	0.02	0.02	0.03	0.02	0.02	0.01	0.02
TiO2	0.22	0.28	0.12	0.10	0.09	0.21	0.09	0.19	0.08	0.25	0.17	0.10
Cr2O3	0.39	0.46	0.47	0.50	0.55	0.63	0.46	0.38	0.48	0.46	0.34	0.54
NiO	0.15	0.16	0.12	0.10	0.11	0.07	0.07	0.12	0.11	0.11	0.12	0.10
Total	100.31	99.74	99.32	99.99	100.18	101.33	100.00	100.21	100.40	101.65	100.66	99.95

UMT064 – orthopyroxene microprobe data continued

Sample no.	SO48064			SO49064				SO50064			
Depth (m)	833.68 - 833.86			836.50 - 836.69				838.7 - 838.86			
Analysis no.	1	2	3	1	2	3	4	1	2	3	4
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
SiO2	55.04	55.39	59.30	55.54	55.64	55.22	55.47	55.66	55.38	55.93	55.51
Al2O3	0.95	1.14	8.77	1.73	1.19	1.49	1.38	1.03	1.63	1.28	1.11
FeO	12.84	13.06	3.57	11.90	12.11	13.18	11.83	12.56	10.82	11.86	12.66
MnO	0.25	0.22	0.01	0.23	0.26	0.26	0.23	0.27	0.27	0.22	0.27
MgO	28.55	27.87	17.80	28.62	29.34	28.70	29.55	28.87	28.84	29.75	28.25
CaO	1.04	2.53	4.60	2.34	1.29	0.85	1.66	0.66	2.06	1.61	2.06
Na2O	0.00	0.04	0.41	0.05	0.04	0.01	0.03	0.00	0.03	0.02	0.03
K2O	0.03	0.02	5.18	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.01
TiO2	0.20	0.18	0.04	0.12	0.18	0.13	0.11	0.19	0.10	0.12	0.14
Cr2O3	0.36	0.33	0.17	0.45	0.45	0.40	0.51	0.35	0.51	0.48	0.38
NiO	0.08	0.11	0.19	0.12	0.07	0.09	0.10	0.07	0.09	0.10	0.10
Total	99.35	100.89	100.02	101.10	100.59	100.36	100.89	99.68	99.75	101.40	100.50

UMT064 - orthopyroxene microprobe data continued

Sample no.	SO52064				SO54064				SO56064			SO57064		
Depth (m)	840.55 - 840.74				845.52 - 845.68				849.23 - 849.38			853.11 - 853.26		
Analysis no.	1	2	3	4	1	2	3	4	1	2	3	1	2	3
Stratigraphy	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1	T1
SiO2	54.91	56.05	55.42	55.49	55.13	56.45	54.86	55.00	55.46	55.65	55.08	55.55	56.55	55.80
Al2O3	1.22	1.01	1.39	1.39	1.82	1.16	1.77	1.37	1.54	1.42	1.47	1.34	1.25	1.14
FeO	13.16	13.17	10.85	13.05	10.77	11.65	13.02	13.24	12.43	12.35	12.48	11.26	12.42	13.74
MnO	0.25	0.22	0.32	0.21	0.28	0.21	0.25	0.30	0.24	0.21	0.23	0.30	0.23	0.23
MgO	28.87	29.35	27.80	28.55	29.78	28.80	28.45	28.85	28.63	29.04	27.95	27.98	29.29	28.75
CaO	1.12	0.64	2.45	1.37	0.58	2.56	1.29	0.73	2.52	0.92	2.42	2.71	0.71	0.87
Na2O	0.01	0.00	0.04	0.02	0.01	0.03	0.02	0.00	0.03	0.00	0.02	0.01	0.01	0.00
K2O	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.03	0.03	0.02	0.01
TiO2	0.14	0.18	0.11	0.06	0.08	0.20	0.11	0.10	0.15	0.07	0.20	0.15	0.06	0.25
Cr2O3	0.39	0.42	0.46	0.47	0.53	0.47	0.49	0.33	0.44	0.34	0.41	0.43	0.45	0.32
NiO	0.11	0.09	0.12	0.10	0.11	0.10	0.06	0.08	0.06	0.06	0.09	0.06	0.09	0.10
Total	100.20	101.13	98.99	100.71	99.08	101.63	100.33	100.02	101.50	100.08	100.38	99.82	101.07	101.20

UMT064 - orthopyroxene microprobe data continued

Sample no.	SO58064				SO59064			SO60064			SO61064		
Depth (m)	855.27 - 855.43				856.53 - 856.69			858.80 - 858.95			860.05 - 860.20		
Analysis no.	1	2	3	4	1	2	3	1	2	3	1	2	3
Stratigraphy	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper	T2 Upper
SiO2	55.43	55.67	55.37	55.60	55.75	55.81	55.42	55.82	55.79	55.97	55.28	55.90	55.39
Al2O3	1.79	1.49	1.43	1.52	1.46	1.42	1.34	1.47	1.56	0.93	1.46	1.08	1.23
FeO	11.20	11.65	11.46	10.65	11.76	11.30	11.31	12.27	11.71	13.21	13.53	13.03	13.65
MnO	0.24	0.23	0.23	0.20	0.24	0.23	0.20	0.24	0.22	0.25	0.24	0.23	0.24
MgO	29.98	27.81	29.62	29.19	30.27	29.36	30.21	29.14	29.15	29.03	28.09	29.07	28.47
CaO	1.49	3.13	1.45	1.89	0.84	2.11	1.37	1.79	1.73	0.93	1.77	0.97	1.23
Na2O	0.02	0.06	0.01	0.03	0.03	0.02	0.01	0.02	0.00	0.01	0.04	0.01	0.01
K2O	0.02	0.02	0.02	0.03	0.03	0.02	0.03	0.02	0.03	0.01	0.03	0.02	0.02
TiO2	0.07	0.17	0.12	0.11	0.14	0.14	0.05	0.15	0.10	0.21	0.13	0.15	0.19
Cr2O3	0.52	0.42	0.48	0.50	0.37	0.42	0.30	0.47	0.42	0.39	0.41	0.35	0.28
NiO	0.09	0.13	0.09	0.09	0.10	0.10	0.08	0.09	0.11	0.12	0.13	0.14	0.12
Total	100.84	100.78	100.28	99.81	100.98	100.93	100.31	101.49	100.81	101.05	101.11	100.94	100.84