

Sample unit	SiO ₂ (%)	TiO ₂ (%)	Al ₂ O ₃ (%)	MnO (%)	MgO (%)	CaO (%)	Na ₂ O (%)	K ₂ O (%)	P ₂ O ₅ (%)	Fe ₂ O _{3t} (%)	Sum (%)
MIO-12-01	59.60	0.51	17.09	0.12	1.79	4.81	4.44	2.15	0.29	5.09	95.89
MIO-12-02	54.62	0.69	16.67	0.10	3.35	6.26	4.01	1.67	0.19	6.26	93.82
MIO-12-04	57.72	1.23	15.99	0.54	0.74	4.15	4.37	3.21	0.42	7.82	96.19
MIO-12-05	57.08	1.14	16.41	0.06	2.15	5.61	4.66	2.14	0.34	5.95	95.54
MIO-12-06	49.38	0.84	13.77	0.07	2.29	4.81	4.82	2.78	0.46	4.86	84.07
MIO-12-07	50.42	0.80	14.10	0.07	2.10	4.71	4.86	3.06	0.44	4.71	85.26
MIO-12-08	56.51	1.22	17.11	0.09	3.12	5.89	4.56	2.42	0.50	6.89	98.31
MIO-12-10	58.07	1.13	16.66	0.09	2.86	5.61	4.64	2.74	0.50	6.26	98.56
MIO-12-11	60.94	0.84	15.86	0.08	2.17	4.29	4.34	3.35	0.30	5.22	97.39
MIO-12-12	72.64	0.18	12.78	0.06	0.14	0.70	4.18	4.53	0.03	1.10	96.33
MIO-12-13	72.71	0.18	12.80	0.06	0.15	0.71	4.17	4.52	0.03	1.11	96.43
MIO-12-14	60.70	0.96	16.36	0.10	2.64	5.04	4.47	3.16	0.35	5.78	99.55
MIO-12-15	63.36	0.54	14.94	0.09	1.81	3.06	3.94	3.76	0.26	3.96	95.72
MIO-12-16	55.25	1.07	17.67	0.10	2.09	6.23	3.90	2.58	0.41	7.69	96.99
MIO-12-17	58.75	0.94	15.97	0.11	3.15	5.20	3.90	3.23	0.32	6.30	97.87
MIO-12-18	62.10	0.81	16.42	0.08	1.77	3.93	4.41	3.75	0.34	4.51	98.12
MIO-12-19	55.74	1.11	16.29	0.08	3.95	6.07	4.04	2.70	0.42	7.44	97.83
MIO-12-20	56.37	1.07	16.31	0.13	3.28	6.63	3.94	2.73	0.34	7.46	98.27
MIO-12-21	72.48	0.29	13.90	0.07	0.28	0.82	3.91	5.62	0.04	1.70	99.12
MIO-12-22	69.73	0.42	15.06	0.06	0.46	1.19	4.67	4.73	0.08	2.04	98.43
MIO-12-23	55.44	1.33	16.36	0.11	4.11	6.95	4.20	2.26	0.44	8.26	99.47
MIO-12-24	67.36	0.51	15.43	0.05	0.70	2.11	4.58	4.03	0.20	2.90	97.88
MIO-12-25	54.21	1.41	17.29	0.12	3.43	6.71	4.53	2.69	0.63	8.14	99.16
MIO-12-26	59.65	0.91	16.96	0.14	2.15	4.81	4.33	2.66	0.31	5.99	97.91
MIO-12-27	63.10	0.86	16.42	0.07	1.80	4.19	4.96	2.95	0.35	4.71	99.41
MIO-12-39	52.89	1.09	17.96	0.14	5.14	8.20	3.98	1.17	0.29	8.94	99.80
MIO-12-40	58.46	0.88	17.36	0.11	2.56	6.00	4.37	2.03	0.32	6.60	98.68
MIO-12-41	53.12	1.30	17.99	0.12	3.96	7.81	3.90	1.64	0.31	8.82	98.97
MIO-12-42	59.19	1.06	17.41	0.08	1.46	5.19	4.11	3.48	0.43	5.78	98.20
MIO-12-43	55.67	1.50	16.59	0.12	3.18	5.98	4.15	2.48	0.42	9.03	99.12
MIO-12-44	63.94	0.68	16.49	0.12	1.20	3.65	4.98	2.86	0.30	4.37	98.59
MIO-12-45	63.57	0.87	16.53	0.05	1.33	4.15	4.84	2.76	0.31	4.29	98.70
MIO-12-46	58.42	1.10	17.01	0.12	2.49	5.42	4.12	2.81	0.41	7.57	99.47
MIO-12-47	39.19	0.51	10.19	0.10	0.84	3.74	2.63	2.12	0.22	3.19	62.72
MIO-12-48	59.73	1.08	16.75	0.08	2.21	4.69	4.88	3.01	0.46	5.88	98.77
MIO-12-49	58.76	1.22	16.80	0.08	2.41	5.03	5.00	2.82	0.53	6.36	99.01
MIO-12-50	60.94	0.86	15.89	0.09	2.85	4.84	3.73	3.86	0.26	6.04	99.36
MIO-12-51	55.65	1.36	16.29	0.10	3.84	6.71	4.70	2.32	0.62	7.25	98.84
01S-12 01	54.80	1.17	17.19	0.12	5.77	7.85	4.02	1.33	0.25	8.11	100.61
ARE-12 09	56.77	1.41	16.89	0.10	3.32	6.28	4.69	2.51	0.66	7.13	99.75
ARE-12 10	55.25	1.33	16.14	0.09	3.22	5.98	4.53	2.59	0.63	6.73	96.49
MID-12 01	69.58	0.31	14.08	0.07	0.30	0.97	4.44	4.91	0.06	1.69	96.41
GD	63.80	0.68	14.83	0.08	2.48	1.86	4.02	2.22	0.15	5.29	95.41
GD	64.03	0.68	14.82	0.08	2.49	1.86	4.02	2.22	0.15	5.31	95.66

Sample unit	Ba (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Ga (ppm)	Hf (ppm)	La (ppm)	Mo (ppm)	Nb (ppm)	Nd (ppm)
MIO-12-01	658.00	44.00	9.00	3.00	6.00	19.00	4.50	23.00	0.70	8.60	23.40
MIO-12-02	557.00	39.00	18.00	44.00	56.00	18.00	3.90	18.00	2.40	7.90	19.60
MIO-12-04	783.00	86.00	33.00	1.00	34.00	20.00	8.20	41.00	1.70	18.40	43.90
MIO-12-05	765.00	66.00	16.00	12.00	35.00	22.00	5.30	34.00	1.20	9.20	32.90
MIO-12-06	1496.00	109.00	13.00	37.00	23.00	19.00	5.80	59.00	5.30	17.30	49.70
MIO-12-07	1599.00	120.00	12.00	22.00	48.00	20.00	6.20	65.00	4.30	16.40	51.50
MIO-12-08	1264.00	98.00	21.00	48.00	130.00	23.00	5.20	51.00	0.00	11.60	49.90
MIO-12-10	1351.00	117.00	18.00	34.00	59.00	21.00	5.90	62.00	0.00	13.00	55.60
MIO-12-11	853.00	82.00	15.00	20.00	51.00	19.00	5.20	40.00	0.40	14.30	36.40
MIO-12-12	392.00	71.00	0.00	1.00	0.00	17.00	2.90	38.00	3.40	18.20	27.50
MIO-12-13	385.00	74.00	0.00	1.00	2.00	17.00	3.20	42.00	3.40	18.10	25.30
MIO-12-14	1016.00	87.00	17.00	33.00	57.00	20.00	6.50	45.00	0.10	14.00	41.50
MIO-12-15	1052.00	62.00	10.00	14.00	46.00	17.00	4.20	33.00	0.10	11.80	29.90
MIO-12-16	884.00	71.00	19.00	6.00	118.00	19.00	4.80	40.00	0.40	13.30	35.50
MIO-12-17	859.00	99.00	19.00	52.00	50.00	20.00	7.20	51.00	1.90	15.30	46.20
MIO-12-18	1048.00	98.00	10.00	7.00	28.00	20.00	6.60	47.00	1.20	16.10	45.00
MIO-12-19	890.00	87.00	24.00	86.00	94.00	20.00	5.10	44.00	0.20	13.70	44.60
MIO-12-20	773.00	95.00	23.00	42.00	78.00	19.00	6.50	45.00	1.40	14.80	46.10
MIO-12-21	696.00	111.00	1.00	2.00	5.00	17.00	7.20	59.00	0.60	21.60	49.80
MIO-12-22	1304.00	90.00	1.00	1.00	9.00	17.00	9.80	49.00	0.00	19.00	41.70
MIO-12-23	879.00	75.00	27.00	77.00	91.00	21.00	4.20	35.00	0.00	9.40	39.80
MIO-12-24	1268.00	83.00	4.00	3.00	11.00	21.00	6.30	40.00	0.30	13.40	40.10
MIO-12-25	1310.00	100.00	23.00	19.00	63.00	21.00	6.70	57.00	0.20	19.20	52.20
MIO-12-26	668.00	58.00	10.00	6.00	10.00	19.00	5.40	27.00	0.30	10.20	31.50
MIO-12-27	1120.00	73.00	13.00	16.00	63.00	22.00	4.70	36.00	0.00	10.00	38.30
MIO-12-39	440.00	35.00	29.00	79.00	72.00	20.00	3.40	16.00	0.00	5.70	20.00
MIO-12-40	747.00	59.00	18.00	18.00	67.00	20.00	4.80	28.00	0.00	8.90	30.10
MIO-12-41	548.00	52.00	29.00	30.00	60.00	20.00	4.40	26.00	0.40	8.80	28.00
MIO-12-42	761.00	140.00	13.00	16.00	80.00	22.00	13.30	90.00	2.80	26.20	80.10
MIO-12-43	638.00	76.00	25.00	4.00	97.00	21.00	7.30	37.00	0.90	14.00	40.60
MIO-12-44	1025.00	72.00	4.00	1.00	2.00	20.00	6.40	35.00	0.20	12.60	37.50
MIO-12-45	912.00	78.00	9.00	12.00	40.00	22.00	5.30	36.00	0.00	9.90	38.80
MIO-12-46	827.00	82.00	20.00	7.00	30.00	22.00	6.20	40.00	0.60	13.50	43.10
MIO-12-47	722.00	45.00	8.00	46.00	63.00	10.00	3.10	26.00	4.80	9.30	17.70
MIO-12-48	1274.00	101.00	16.00	20.00	64.00	23.00	5.80	54.00	0.00	12.90	48.10
MIO-12-49	1279.00	108.00	17.00	25.00	62.00	23.00	5.80	55.00	0.00	13.00	53.10
MIO-12-50	821.00	82.00	18.00	55.00	25.00	19.00	6.40	45.00	0.60	13.60	38.50
MIO-12-51	1259.00	128.00	23.00	77.00	45.00	22.00	5.60	64.00	0.00	13.20	61.80
01S-12 01	399.00	47.00	30.00	224.00	52.00	21.00	3.50	21.00	0.00	6.00	23.50
ARE-12 09	1320.00	124.00	21.00	57.00	63.00	22.00	5.90	61.00	0.00	12.90	61.40
ARE-12 10	1298.00	111.00	19.00	54.00	70.00	21.00	5.60	59.00	0.20	12.70	55.70
MID-12 01	779.00	112.00	0.00	13.00	2.00	17.00	6.90	61.00	3.40	19.70	46.60
GD	730.00	50.00	14.00	65.00	15.00	17.00	4.40	26.00	0.50	7.00	25.00
GD	739.00	49.00	14.00	66.00	14.00	18.00	4.20	27.00	0.50	7.40	25.00

Sample unit	Ni (ppm)	Pb (ppm)	Rb (ppm)	S (ppm)	Sc (ppm)	Sm (ppm)	Sr (ppm)	Th (ppm)	U (ppm)	V (ppm)
MIO-12-01	3.00	11.90	49.00	10.00	9.00	5.30	632.00	3.00	1.00	60.00
MIO-12-02	22.00	10.20	47.00	10.00	18.00	4.30	567.00	3.00	1.00	139.00
MIO-12-04	6.00	18.60	106.00	4.00	14.00	8.20	427.00	11.20	3.20	118.00
MIO-12-05	14.00	10.30	47.00	10.00	10.00	6.80	686.00	3.20	1.00	130.00
MIO-12-06	23.00	12.70	85.00	78.00	11.00	8.60	965.00	7.20	2.00	100.00
MIO-12-07	16.00	11.80	88.00	75.00	10.00	8.60	991.00	12.50	2.90	78.00
MIO-12-08	34.00	13.60	46.00	10.00	13.00	8.80	1057.00	6.20	1.50	149.00
MIO-12-10	30.00	12.50	60.00	10.00	14.00	9.30	1215.00	6.90	1.80	130.00
MIO-12-11	24.00	16.50	120.00	10.00	10.00	7.10	654.00	16.30	4.50	118.00
MIO-12-12	2.00	22.80	225.00	60.00	4.00	5.50	101.00	30.60	7.30	10.00
MIO-12-13	2.00	22.40	223.00	61.00	1.00	5.00	101.00	30.50	7.50	10.00
MIO-12-14	33.00	14.60	106.00	10.00	13.00	7.70	760.00	12.50	3.30	128.00
MIO-12-15	12.00	21.30	134.00	18.00	10.00	5.90	654.00	16.90	4.40	80.00
MIO-12-16	18.00	9.90	87.00	10.00	20.00	6.70	568.00	10.10	2.60	180.00
MIO-12-17	32.00	16.10	155.00	16.00	15.00	8.10	647.00	24.00	6.00	144.00
MIO-12-18	8.00	16.30	148.00	24.00	12.00	8.10	660.00	19.00	5.20	93.00
MIO-12-19	45.00	11.60	92.00	10.00	18.00	7.80	760.00	9.70	2.40	173.00
MIO-12-20	34.00	20.70	119.00	40.00	19.00	8.00	718.00	19.10	4.90	176.00
MIO-12-21	4.00	22.20	253.00	51.00	3.00	8.50	107.00	31.80	9.10	15.00
MIO-12-22	3.00	22.30	152.00	10.00	0.00	7.20	236.00	14.80	3.30	21.00
MIO-12-23	55.00	9.60	67.00	162.00	17.00	8.00	925.00	6.70	1.60	206.00
MIO-12-24	4.00	17.70	109.00	167.00	3.00	6.70	493.00	9.10	2.10	46.00
MIO-12-25	26.00	11.80	68.00	10.00	18.00	9.00	1121.00	6.00	1.50	185.00
MIO-12-26	5.00	8.00	89.00	10.00	15.00	6.50	437.00	10.20	2.40	120.00
MIO-12-27	15.00	14.20	71.00	117.00	7.00	7.10	814.00	3.60	0.80	106.00
MIO-12-39	53.00	6.90	18.00	10.00	23.00	4.50	690.00	1.60	0.50	222.00
MIO-12-40	17.00	9.00	58.00	10.00	14.00	5.80	702.00	5.00	1.20	144.00
MIO-12-41	28.00	9.20	43.00	10.00	21.00	5.90	715.00	5.00	1.30	215.00
MIO-12-42	14.00	23.40	244.00	53.00	12.00	13.20	584.00	36.10	9.50	94.00
MIO-12-43	16.00	9.90	103.00	10.00	16.00	7.60	524.00	11.80	2.80	203.00
MIO-12-44	3.00	15.80	77.00	10.00	7.00	7.00	643.00	6.40	1.60	45.00
MIO-12-45	10.00	15.50	72.00	10.00	9.00	7.40	758.00	7.50	2.00	84.00
MIO-12-46	10.00	13.00	113.00	10.00	13.00	8.20	640.00	12.10	3.10	124.00
MIO-12-47	16.00	11.90	90.00	26.00	10.00	4.70	519.00	8.80	2.00	83.00
MIO-12-48	19.00	14.00	80.00	47.00	9.00	8.40	912.00	8.00	1.90	131.00
MIO-12-49	20.00	11.70	67.00	10.00	10.00	9.10	1030.00	5.40	1.30	142.00
MIO-12-50	30.00	16.40	150.00	4.00	14.00	7.00	527.00	18.80	4.50	132.00
MIO-12-51	50.00	10.10	46.00	15.00	15.00	10.40	1374.00	5.40	1.30	159.00
01S-12 01	75.00	10.10	31.00	10.00	21.00	5.40	557.00	3.10	0.70	191.00
ARE-12 09	33.00	11.20	56.00	10.00	13.00	10.00	1364.00	5.10	1.40	158.00
ARE-12 10	31.00	12.00	56.00	35.00	14.00	9.40	1309.00	5.50	1.40	150.00
MID-12 01	5.00	26.90	197.00	86.00	4.00	8.20	162.00	27.80	6.80	20.00
GD	27.00	59.00	67.00	1137.00	12.00	5.10	269.00	8.90	2.40	99.00
GD	27.00	59.80	67.00	1118.00	13.00	5.20	270.00	9.30	2.40	99.00

Sample unit	Y (ppm)	Yb (ppm)	Zn (ppm)	Zr (ppm)
MIO-12-01	16.20	1.20	89.00	174.00
MIO-12-02	15.80	1.80	76.00	140.00
MIO-12-04	37.50	4.00	176.00	331.00
MIO-12-05	12.60	1.90	106.00	226.00
MIO-12-06	15.50	1.50	84.00	268.00
MIO-12-07	13.70	1.20	76.00	279.00
MIO-12-08	17.00	1.90	110.00	226.00
MIO-12-10	16.40	1.30	96.00	259.00
MIO-12-11	19.90	1.70	77.00	203.00
MIO-12-12	16.20	2.50	33.00	112.00
MIO-12-13	16.10	2.00	33.00	117.00
MIO-12-14	19.80	1.90	83.00	239.00
MIO-12-15	15.20	1.50	58.00	151.00
MIO-12-16	39.40	1.90	95.00	219.00
MIO-12-17	23.30	2.10	91.00	287.00
MIO-12-18	22.20	1.50	76.00	264.00
MIO-12-19	22.10	2.10	91.00	234.00
MIO-12-20	25.50	1.80	93.00	242.00
MIO-12-21	30.10	3.00	39.00	265.00
MIO-12-22	21.80	1.90	62.00	358.00
MIO-12-23	20.10	1.50	112.00	173.00
MIO-12-24	14.10	2.00	81.00	292.00
MIO-12-25	21.30	2.20	96.00	283.00
MIO-12-26	29.30	1.50	96.00	211.00
MIO-12-27	11.80	0.90	94.00	208.00
MIO-12-39	18.20	1.90	97.00	129.00
MIO-12-40	19.00	0.90	89.00	177.00
MIO-12-41	20.20	3.70	96.00	165.00
MIO-12-42	66.20	3.00	97.00	538.00
MIO-12-43	28.60	1.50	105.00	269.00
MIO-12-44	20.50	0.70	90.00	246.00
MIO-12-45	11.40	1.20	85.00	210.00
MIO-12-46	24.90	1.40	108.00	273.00
MIO-12-47	10.50	2.10	50.00	114.00
MIO-12-48	14.20	0.50	108.00	262.00
MIO-12-49	14.80	2.00	119.00	255.00
MIO-12-50	18.00	1.60	74.00	243.00
MIO-12-51	18.00	1.90	87.00	231.00
01S-12 01	19.50	0.80	101.00	140.00
ARE-12 09	18.60	1.70	114.00	257.00
ARE-12 10	16.70	1.80	106.00	244.00
MID-12 01	19.80	1.50	59.00	259.00
GD	19.40	1.90	163.00	159.00
GD	19.40	2.00	165.00	160.00