

WINNEMUCCA

APPENDIX B-1. FLUORIMETRIC URANIUM ANALYSES AND SEMIQUANTITATIVE EMISSION SPECTROSCOPY FOR ROCK SAMPLES

DG3-129(4)

Sample No	MAO-52	-53	-54	-55	MAO-101	-102	-103	MAO-201	-202	-203	-204	-205	-206	-207	MAO-276	277	278	MAO-279	-280	-281
Cl ₂ O ₂ (ppm)	4	5	5	2	5	13	7	9	5	10	6	5	8	7	5	7	5	6	6	4
Ag	<1	2	<1	3	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
Al	65400	5660	60600	71400	69200	57400	60900	68500	64600	65800	77200	57400	56600	62600	48100	47600	54600	44800	64500	57200
As	210	59	185	215	220	170	190	190	215	220	230	180	170	210	160	160	180	130	255	195
B	180	195	170	135	220	185	205	110	73	140	110	110	235	250	425	260	250	205	310	285
Ba	84	110	955	1240	330	775	820	1070	1460	1160	1090	455	765	760	950	230	245	845	140	520
Be	15	105	15	31	15	9	18	31	16	17	23	6	23	14	32	20	16	31	115	25
Ca	5510	63800	8990	24900	10900	3800	9710	14400	2750	12600	30100	4460	7710	6500	6780	3190	4260	4100	9630	4720
Co	1	160	5	16	3	3	5	14	7	7	13	3	6	2	6	3	3	8	6	5
Cr	3	19	6	85	7	2	2	25	13	5	12	3	13	7	3	2	4	8	31	7
Cu	3	58	5	350	7	5	2	20	7	4	5	4	9	5	1	<1	2	7	17	4
Fe	8260	88400	12300	27500	12000	820	15100	19600	12800	12800	18200	4490	16800	10100	22300	14300	11900	22800	78900	18600
La	10	67	49	12	23	25	34	46	51	25	19	92	32	32	54	64	71	17	<1	98
Li	50	10	20	15	25	35	30	110	35	10	10	35	25	20	25	30	30	35	70	35
Mn	505	340	125	405	230	200	305	355	330	135	390	52	380	200	435	135	175	2940	170	220
Mo	9	7	8	12	9	6	9	11	9	10	10	6	7	8	9	8	10	5	16	8
Na	24300	2150	21500	25000	27400	20800	23600	25000	8300	22100	23600	25000	16600	26500	21500	23600	26500	16600	1550	22100
Nb	16	46	14	31	9	8	16	49	19	20	42	17	21	8	33	12	15	30	17	23
Ni	5	600	17	30	8	5	6	18	11	6	18	6	9	11	6	5	7	7	16	9
Pb	115	58	96	105	120	85	96	115	115	97	100	84	80	100	90	77	87	65	265	87
Sb	150	43	140	185	170	125	145	160	160	160	175	130	120	150	120	115	140	94	180	135
Sc	3	1	2	7	2	1	2	5	2	4	5	2	4	1	3	1	2	5	2	2
Sn	1	22	1	7	<1	<1	1	6	2	2	2	1	3	<1	7	<1	1	4	9	<1
Sr	<100	150	<100	140	<100	<100	<100	<100	<100	<100	180	<100	<100	<100	<100	<100	<100	170	<100	<100
Ti	200	4020	1310	2960	625	940	1250	2920	1550	1770	3310	1230	1790	640	1600	850	895	2100	355	1300
V	4	230	17	82	11	8	13	51	24	25	80	6	63	10	38	5	7	47	28	16
W	27	72	11	44	25	1	25	72	54	36	21	11	3	25	24	21	19	<1	140	12
Y	37	43	16	9	16	10	14	16	11	13	10	18	26	11	62	18	18	25	22	27
Zn	91	135	92	150	115	135	97	95	100	95	145	105	110	210	140	110	110	150	1900	140
	34	23	93	14	45	27	50	65	38	91	63	52	115	60	320	47	62	105	40	57

Sample No	-282	-283	-284	MAG-351	-352	-353	-354	MAG-355	-356	-357	-358	-359	-360	-361	MAG-701	-702	-703	MAG-704	-706	-707
cts/Dalton	7	2	4	10	2	6	1	4	3	3	1	1	1	3	4	4	142	7	4	5
Ag	<1	<1	<1	<1	<1	<1	<1	<1	<1	14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Al	52200	44500	58300	49700	46300	21400	49100	52200	58900	13100	4760	60400	65600	48800	43800	51100	25500	43300	50000	57500
As	175	130	200	190	<1	80	155	160	180	1190	<1	180	240	165	235	165	83	170	160	180
B	320	225	320	340	185	455	475	680	360	2250	435	320	335	335	470	410	355	425	475	445
Ba	2880	1050	1460	505	72	775	1220	1270	1460	950	220	660	740	580	1060	990	5910	405	560	800
Be	38	27	98	24	4	22	50	55	14	1260	8	80	74	21	44	18	39	20	9	31
Ca	8840	63700	16700	13600	63700	2970	10100	10300	9320	11700	985	51400	26600	3660	5990	9250	63700	5040	2940	18200
Co	5	9	9	6	<1	3	10	13	4	76	<1	36	14	2	4	1	10	2	<1	10
Cr	11	24	33	6	10	66	5	3	2	345	32	99	44	1	27	5	13	5	7	18
Cu	5	10	9	1	2	31	<1	<1	<1	655	6	50	3	2	8	<1	15	<1	1	<1
Fe	28300	20400	68100	17300	4770	17600	35600	37200	10300	100000	3470	58000	54500	16400	34080	14100	29800	15300	7500	23800
La	20	16	18	15	9	1	29	34	47	160	<1	<1	7	28	4	42	13	32	33	19
Li	25	45	20	190	20	<10	50	40	20	100	10	25	35	30	60	30	40	25	45	20
Mn	58	300	355	155	45	130	395	320	98	1710	140	1150	415	210	67	255	305	205	67	325
Mo	7	5	11	6	<1	13	7	10	7	97	<1	10	11	4	5	5	6	7	4	7
Na	25800	14500	27400	16600	900	1000	20800	23600	16600	39000	<500	15200	27400	23200	1000	17900	5600	23600	3450	15900
Nb	9	30	15	14	<1	7	40	48	13	15	<1	20	34	14	21	7	10	12	7	39
Ni	7	13	19	8	6	38	7	8	5	120	26	42	20	6	12	9	13	7	7	5
Pb	93	57	135	62	<1	25	72	90	77	1220	<1	82	110	66	68	61	45	65	52	72
Sb	120	87	140	100	<1	35	100	130	125	830	<1	145	170	100	93	105	61	105	96	115
Sc	1	5	3	4	<1	4	7	7	2	3	<1	29	6	2	2	1	3	2	1	6
Sn	1	3	9	<1	<1	1	9	10	<1	150	<1	4	8	<1	3	2	3	<1	<1	1
Sr	<100	360	120	<100	540	<100	<100	<100	<100	900	<100	150	200	<100	<100	<100	190	<100	<100	100
Ti	540	2330	1360	1610	270	1200	3280	3390	1320	965	220	2160	2770	1120	2220	950	1230	870	830	3270
V	11	69	29	56	9	115	26	29	11	280	28	215	76	18	49	8	66	31	10	92
W	22	10	68	20	<1	<1	21	32	13	2500	<1	17	66	7	27	24	37	19	<1	<1
Y	8	12	18	8	4	5	29	34	9	11	<1	6	11	19	11	8	23	24	8	13
Zn	420	130	945	94	96	76	185	150	115	17000	145	110	500	140	405	70	660	110	175	100
Zr	50	50	5	50	<1	22	210	215	35	31	1	6	5	79	68	25	63	110	27	97

Sample No.	MES-77	MIEQ-001	MIEQ-002	MIEQ-003	MIEQ-004	MIEQ-005	MIEQ-006	MIEQ-007	MIEQ-008	MIEQ-9	-10	-11	-12	-13	MIEQ-14	-15	-16	-17	-18	-19
Ag	23	1	<1	<1	<1	<1	12	<1	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Al	57900	21920	28570	73023	64580	73640	9680	71750	39530	67900	78000	63200	68700	84800	46200	86700	73700	53500	65200	18000
As	340	4	<1	<1	<1	<1	15	<1	48	200	245	210	305	275	170	275	225	160	195	71
B	30	110	210	150	100	125	155	225	200	225	215	265	235	235	520	320	340	260	300	375
Ba	7390	215	4730	1195	2150	1595	1410	1313	1970	1080	1630	520	2630	1120	265	1630	1050	640	1120	175
Be	5	7	3	11	9	10	2	10	7	25	35	29	32	48	28	53	42	24	36	10
Ca	74600	710	28220	19775	7600	9120	37350	34800	>100000	11100	17800	4130	9930	32700	3970	35100	20500	4190	13400	2170
Co	12	22	8	24	16	20	12	41	30	5	11	4	11	17	7	26	16	2	9	1
Cr	385	99	110	40	17	21	150	125	97	7	9	15	9	16	72	195	105	<1	15	22
Cu	210	39	86	<1	<1	<1	135	30	65	<1	<1	3	<1	<1	185	6	4	4	10	8
Fe	38800	36520	10240	40590	21150	21370	9025	41480	24250	14700	21100	16100	19100	29100	17000	32300	23900	12900	21500	6220
La	82	34	36	65	99	92	54	75	125	26	33	63	27	24	9	38	39	73	20	6
Li	40	15	<10	35	22	25	12	15	15	30	30	20	<10	15	40	30	65	<10	75	10
Mn	135	175	155	1380	520	480	290	215	125	370	320	745	355	315	215	500	470	210	435	400
Mo	30	12	18	22	20	19	11	69	93	8	10	11	8	12	9	13	10	7	7	2
Na	6200	600	1200	16600	20100	15900	1000	1700	2000	24300	28200	27400	14500	20100	1550	24300	20100	15200	13800	800
Nb	7	<5	<5	<5	<5	<5	<5	<5	<5	54	96	49	95	150	71	195	115	58	78	9
Ni	390	60	58	31	12	17	100	175	225	7	9	14	7	11	31	93	38	5	13	17
Pb	80	49	19	61	76	84	47	70	91	95	98	99	88	100	54	120	98	75	78	18
Sb	120	42	33	53	47	58	53	71	115	150	185	155	165	215	120	225	180	110	140	47
Sc	16	5	<5	6	<5	5	<5	10	8	2	4	4	5	7	8	14	7	2	6	1
Sn	12	8	<1	13	12	19	3	21	22	<1	3	<1	7	3	3	13	5	3	2	<1
Sr	160	<100	280	260	200	200	150	200	250	<100	109	<100	<100	180	<100	180	<100	<100	<100	<100
Ti	3920	2240	580	2300	2300	2515	480	3625	2260	1660	2670	935	2700	4300	1920	5300	3060	1000	2300	520
V	3250	120	810	165	34	30	1560	270	3500	22	45	26	79	72	225	135	71	8	110	17
W	442	52	44	70	82	69	69	62	50	<1	37	43	28	54	59	79	34	<1	17	30
Y	105	11	49	13	33	31	28	21	45	10	11	38	16	15	70	23	15	51	19	2
Zn	2510	445	245	140	100	110	490	1370	335	85	115	185	110	125	370	340	120	98	98	955
Zr	100	35	12	52	125	115	36	65	69	92	35	205	165	110	65	195	16	210	88	6

Sample No.	MEQ-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39
all ₂ O ₃ (ppm)	2	7	2	4	1	2	1	3	2	1	6	1	2	3	19	6	3	4	3	3
Ag	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	7	1	1	4	1	1
Al	74100	64200	72200	75500	12500	72500	28800	83900	>100000	2040	22600	7830	79600	48900	12000	54900	66300	65200	8070	71100
As	230	190	210	255	52	235	91	290	345	<1	180	28	280	150	175	200	220	225	1	205
B	345	320	310	370	465	490	500	399	320	175	270	345	405	415	425	440	415	350	1	1
Ba	965	900	965	2150	370	1360	5780	1720	2300	1240	275	225	1560	1150	305	265	950	1640	860	1280
Be	18	18	47	33	14	62	37	30	67	17	15	12	37	31	25	31	50	79	26	53
Ca	13200	8690	23100	11000	5260	2150	1390	14500	30800	73300	22400	2390	9750	41300	12100	3000	12700	15000	3740	14000
Co	2	2	15	7	3	16	15	11	24	<1	11	<1	10	6	45	5	11	19	1	17
Cr	8	5	57	11	69	36	58	37	24	11	115	20	27	37	120	24	21	19	12	47
Cu	11	<1	<1	<1	28	<1	43	16	12	4	14	<1	1	5	9850	74	14	3	1	24
Fe	1000	10700	29000	19800	9360	39300	24000	18700	41500	1480	6790	4330	21000	18000	16200	13800	30200	48000	14600	29600
La	12	35	16	51	1	21	1	14	38	7	10	<1	48	23	7	61	33	30	31	37
Li	60	40	55	10	<10	10	40	40	35	45	220	80	30	150	10	80	55	20	15	55
Mn	305	155	580	640	490	360	450	450	825	280	65	315	650	590	765	385	325	620	305	485
Mo	7	6	8	10	1	10	5	11	16	<1	6	<1	12	5	191	10	11	14	1	10
Na	25800	21500	23600	11200	<500	1100	1000	33000	35700	2150	22800	<500	25000	13000	500	23600	17100	25000	17100	15900
Nb	21	29	115	47	10	145	50	64	170	20	190	2	71	55	11	51	98	180	56	155
Ni	11	7	23	13	21	20	47	21	18	5	51	9	16	17	49	15	12	16	3	23
Pb	77	71	71	78	19	88	32	110	145	3	100	<1	120	63	855	120	120	125	1	105
Sb	160	130	155	185	20	185	62	215	275	<1	360	<1	220	145	41	150	175	195	1	205
Sc	2	2	9	4	2	12	8	4	7	<1	3	<1	4	4	2	2	6	8	1	9
Sn	<1	<1	4	<1	<1	9	2	3	17	2	14	<1	4	5	5	9	8	13	1	1
Sr	<100	<100	110	<100	<100	<100	<100	<100	310	200	<100	<100	<100	350	<100	<100	<100	<100	<100	<100
Ti	715	920	3160	1340	510	3920	1640	1860	4530	120	5220	130	1730	1580	550	650	2420	4610	1270	3250
V	10	12	78	24	28	130	77	36	145	3	105	6	29	33	105	15	50	69	11	130
W	13	<1	23	29	<1	62	3	81	90	<1	2400	<1	90	85	1	70	59	75	1	31
Y	4	12	12	17	5	24	8	10	16	2	4	<1	10	18	35	74	36	29	12	40
Zn	93	110	190	95	70	9p	100	195	170	40	140	49	110	115	400	130	415	200	105	190
	43	2	43	10	120	32	75	25	1	115	<1	21	35	16	75	175	300	55	104	

Sample No. -40 -41 -42 -43
 alt₂O₃(ppm) 5 3 2 2

	MFO-044	MFO-045	MFO-046	MFO-047	MFO-048	MFO-049	MFO-050	MFO-051	MFO-052	MFO-053	MFO-054	MFO-055	MFO-056	MFO-057	MFO-058	MFO-059
Ag	4	7	4	4	2	<1	2	1	2	4	14	5	8	10	<1	3
Al	6770	69140	67300	70940	17950	1180	13010	21790	50810	70870	76790	65000	68870	83630	6360	72260
As	60	185	170	190	55	11	39	57	130	165	180	185	210	240	38	205
B	39	88	85	85	120	92	130	150	150	115	115	85	105	155	100	210
Ba	295	275	955	1630	675	41	485	500	1310	1790	1020	340	1010	1270	205	2710
Be	15	18	12	12	6	2	4	5	9	11	10	10	12	12	2	14
Ca	695	4740	4230	5540	900	490	4250	3340	8800	12870	7770	4670	6490	11410	825	7130
Co	9	5	10	10	9	3	6	11	15	17	8	8	12	26	5	28
Cr	21	22	24	25	63	33	58	53	55	34	12	11	31	70	19	125
Cu	35	32	13	14	42	25	46	44	33	20	5	7	15	35	6	91
Fe	7860	17580	18050	25940	25300	12550	18160	21320	30180	35540	14910	22120	22650	37070	8940	48000
La	7	67	95	96	8	<1	5	10	35	50	57	97	52	31	5	34
Li	35	105	70	45	15	<10	15	10	35	40	40	<10	75	55	<10	40
Mn	210	275	390	420	205	130	165	125	235	560	300	275	600	730	48	295
Mo	20	21	21	23	11	5	9	10	17	21	20	22	24	25	5	23
Na	23600	27400	22800	24300	600	250	450	400	5600	14500	17900	13800	19300	11200	300	5100
Nb	7	18	15	14	<1	<1	<1	1	7	11	13	15	13	12	<1	12
Ni	15	14	23	17	37	15	29	32	28	18	6	7	14	45	290	79
Pb	45	130	120	130	46	12	26	41	86	110	130	130	145	135	20	120
Sb	35	100	105	120	37	9	23	34	75	100	115	105	125	140	19	110
Sc		<1	2	3	2	<1	1	3	6	6	4	2	4	10	1	11
Sn	41	30	44	36	24	8	12	18	37	36	33	36	45	46	12	47
Sr	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ti	740	615	1050	1440	925	87	695	1540	2730	3030	1860	1530	1720	4100	420	4520
V	17	28	15	16	125	5	66	120	120	78	15	13	30	135	1560	330
W	96	125	125	130	<1	<1	<1	<1	47	130	135	110	135	270	<1	130
Y	74	83	68	54	7	<1	8	9	22	35	35	32	32	23	2	21
Zn	170	79	85	130	66	26	82	135	115	390	85	105	79	150	105	255
Zr	19	62	52	17	26	4	22	42	90	160	110	235	92	99	11	82

Sample No.	MEQ-060	MEQ-061	MEQ-062	MEQ063	MEQ064	MEQ065	MEQ066	MEQ067	MEQ068	MEQ069	MEQ070	MEQ071	MEQ072	MEQ073	MEQ074	MEQ075	MEQ076	MEQ077	MEQ078	MEQ079
AG	1	2	1	6	290	9	14	10	8	2	3	6	92	2	5	6	3	4	3	<1
AL	74000	96470	79120	<1	<1	<1	<1	<1	<1	<1	<1	<1	28	<1	<1	<1	<1	<1	<1	<1
AS	215	255	205	66300	31200	34800	44000	52800	69300	53200	76600	62800	10930	66600	55800	70500	75000	45000	78300	3690
B	155	95	87	140	200	140	145	205	165	97	155	135	1990	150	88	130	160	67	140	56
BA	245	1980	655	22	73	52	86	97	36	62	68	48	2070	68	68	140	110	78	87	86
BE	5	15	10	410	160	400	325	385	530	280	1280	160	2510	920	230	63	950	195	280	220
CA	660	34280	21550	15	43	33	41	27	23	59	52	24	1420	61	37	33	105	23	40	48
CO	5	31	20	5840	40600	4440	7660	6500	4740	6020	21600	3770	81400	10900	4840	4800	14700	3360	3940	3190
CR	13	27	19	4	6	4	7	9	2	14	22	4	94	7	4	2	9	<1	4	5
CU	10	12	10	17	20	13	13	16	19	94	130	14	605	28	28	13	43	11	25	60
FE	18550	52900	31460	22	18	6	23	13	24	40	21	110	9650	25	23	13	29	10	27	60
LA	93	26	25	8970	23000	20000	25700	16100	15000	41500	34800	14200	>100000	44500	25700	19360	72600	10700	24700	36400
LI	<10	15	110	90	16	2	<1	16	87	8	37	8	215	49	66	34	49	<1	16	11
MN	36	855	770	15	30	30	60	55	20	30	40	80	70	45	50	40	45	10	100	20
MO	170	80	22	84	215	975	170	1090	110	575	550	400	1080	185	225	240	320	325	255	230
NA	27200	27400	11200	10	8	5	12	13	10	15	10	8	160	12	12	10	17	4	12	6
NB	12	13	10	23600	2150	4450	5000	13800	22100	15900	20800	20800	25800	17900	15200	20800	20100	1100	21500	1200
NI	8	9	14	5	9	4	3	4	4	4	9	8	6	3	3	10	4	10	10	<1
PB	145	155	115	10	13	9	18	19	13	40	43	14	125	19	16	10	17	10	17	33
SB	115	150	115	79	38	38	49	50	68	64	86	88	1250	98	65	92	130	43	100	56
SC	<1	7	5	120	53	49	64	73	105	87	125	110	1110	110	78	115	135	54	120	21
SN	35	35	43	2	6	3	2	4	2	6	8	3	5	3	2	4	3	2	4	<1
SR	<100	175	100	3	6	1	1	1	<1	1	5	<1	195	2	<1	4	8	5	2	4
TJ	380	3050	4050	<100	160	<100	<100	<100	<100	<100	110	<100	815	<100	<100	<100	<100	<100	<100	<100
V	17	130	76	1240	2010	1350	730	1450	1270	1790	3920	385	1150	1110	670	360	940	220	425	140
W	135	205	155	10	79	57	53	145	12	56	98	15	815	21	11	4	27	1	5	17
Y	9	9	14	19	36	8	1	5	2	5	<1	17	1320	38	26	4	120	34	1	27
ZN	85	140	105	23	67	9	10	13	19	9	14	28	16	28	25	57	33	31	21	1
ZR	130	130	130	135	115	120	165	150	135	125	135	135	6910	845	135	150	2290	62	195	425
				65	46	37	42	46	73	55	7	40	35	53	33	48	44	31	19	7

Sample No. dl ₃ O ₈ (ppm)	MEQ080	MEQ081	MEQ082	MEQ083	MEQ084	MEQ085	MEQ086	MEQ087	MEQ088	MEQ089	MEQ090	MEQ091	MEQ092	MEQ093	MEQ094	MEQ095	MEQ096	MEQ097	MEQ098	MEQ099
	3	2	7	2	6	1	7	3	3	7	2	11	8	9	10	9	3	9	5	1
Ag	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Al	58200	100000	76600	100000	72100	89700	75000	74000	73700	78800	94300	74500	70400	86700	85500	82600	79300	70900	>100000	93100
As	96	235	145	185	135	160	170	175	160	195	175	130	160	190	180	175	165	215	210	230
B	70	56	78	105	110	98	115	130	120	190	130	160	170	190	180	180	145	175	135	140
Ba	625	1410	720	2020	285	1640	200	370	165	150	1840	200	485	950	625	730	250	165	1990	1920
Be	23	20	35	46	30	42	23	81	28	31	41	36	43	62	54	47	26	92	43	47
Ca	19300	17000	9520	19700	21600	14400	19700	17200	9660	5900	16700	4550	30200	16800	14900	13000	7350	13100	20500	20400
Co	6	7	6	15	4	12	1	7	2	3	12	3	7	12	10	10	2	6	15	15
Cr	27	11	22	18	11	23	16	42	25	22	23	22	31	34	35	20	18	48	24	27
Cu	73	880	31	12	19	17	10	20	16	18	21	15	17	12	16	15	16	40	12	17
Fe	17300	13900	24500	33100	20700	29600	13600	55100	19200	16800	29200	18300	21600	28400	27300	25000	16400	59300	30600	33100
La	13	9	19	36	59	38	12	1	10	12	33	49	22	30	23	25	14	2	38	34
Li	<10	<10	30	20	30	20	30	30	40	30	20	75	40	75	45	40	25	45	15	20
Mn	230	66	490	505	290	555	705	515	330	670	495	225	375	455	430	410	200	385	530	565
Mo	8	12	11	13	11	12	10	14	10	14	14	9	11	14	12	13	11	17	15	15
Na	20800	28200	25000	30000	25800	23600	24300	24300	26500	28200	29600	28200	23600	21500	21500	23600	26500	29000	29000	21000
Nb	1	<1	2	5	8	4	7	4	4	13	4	23	28	31	37	28	6	4	6	4
Ni	19	13	14	23	15	18	13	27	19	16	15	17	21	16	16	14	12	24	17	19
Pb	46	78	82	110	85	105	94	130	79	120	105	100	105	150	145	130	100	130	120	110
Sb	83	150	120	160	115	150	120	135	115	140	160	120	125	150	155	140	135	135	170	170
Sc	3	5	2	4	3	3	2	2	1	4	3	1	3	5	4	4	2	2	4	4
Sn	2	4	1	1	2	2	4	2	1	3	1	2	6	16	12	8	2	5	2	2
Sr	100	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	140	<100	<100	<100	<100	<100	<100	110
Ti	2180	2060	1530	2870	1150	2310	475	625	395	455	2640	820	1800	2900	2360	2180	550	375	3170	3110
V	52	63	21	49	22	37	8	28	8	39	44	16	37	70	56	44	11	22	53	55
W	21	20	5	20	5	4	13	91	2	29	18	5	34	51	29	30	18	110	45	41
Y	7	4	12	16	30	16	25	22	19	49	13	66	68	60	77	76	30	22	14	12
Zn	90	160	130	230	160	160	135	1160	130	150	160	260	230	280	290	235	155	1220	150	165
Zr	9	27	39	46	195	42	46	44	46	52	47	125	140	160	175	170	52	45	50	44

Sample No
c113081pm4

	MEQ-101	MEQ-102	MEQ-103	MEQ-104	MEQ-105	MEQ-106	MEQ-107	MEQ-108	MEQ-109	MEQ-110	MEQ-111	MEQ-112	MEQ-113	MEQ-114	MEQ-115	MEQ-116	MEQ-117	MEQ-118	MEQ-119	
Ag	<1	4	5	4	4	5	13	7	8	7	8	15	13	16	665	15	37	<1	<1	<1
Al	79500	72560	68470	75310	64760	72830	83150	>100000	92360	79760	67960	39190	>100000	82110	62660	86860	59670	85000	67600	68900
As	160	195	215	215	170	225	210	310	280	255	245	145	345	310	830	300	665	165	175	165
B	130	93	315	145	100	145	125	130	100	165	140	755	110	86	175	130	120	145	185	175
Ba	1550	515	180	305	180	1110	1270	590	2160	815	1370	415	1510	3140	10380	3290	1960	990	580	380
Be	30	5	8	16	19	6	18	15	10	8	9	6	14	6	18	19	6	49	46	41
Ca	14200	4930	13940	8380	17310	13570	37810	15920	21430	5850	4070	>100000	50780	43170	29390	27400	41110	20600	10400	4660
Co	8	7	7	7	5	11	39	12	18	11	12	20	35	18	57	40	18	19	8	3
Cr	13	13	14	12	11	18	62	16	20	77	16	37	67	26	195	47	350	110	26	25
Cu	8	10	9	8	10	9	<1	17	10	115	9	360	17	775	38800	125	385	21	9	16
Fe	21000	9015	16910	14950	11860	12610	62840	22030	30980	26230	22230	21880	45440	16020	66930	48150	14400	33300	24600	28200
La	23	105	41	40	22	43	43	54	45	45	96	31	57	38	53	39	96	26	18	81
Li	15	25	60	70	40	50	10	85	20	20	10	190	20	10	<10	55	90	60	65	25
Mn	375	54	255	310	105	245	700	525	465	245	275	970	805	345	1300	620	100	535	460	150
Mo	11	20	20	23	17	21	27	29	28	31	26	32	37	41	36	32	44	16	11	13
Na	27400	23600	2900	22100	9400	21500	15600	20800	28200	2300	16600	15200	29000	29100	3200	22800	2700	26500	20800	25000
Nb	2	8	8	27	32	6	9	20	8	7	19	5	14	8	10	25	12	6	25	5
Ni	10	8	12	8	7	10	25	12	15	32	11	29	41	21	48	38	190	49	11	16
Pb	82	115	125	145	110	120	150	190	165	130	130	105	220	155	485	200	140	110	105	76
Sb	130	110	125	125	115	120	130	165	155	145	125	99	195	170	340	185	195	150	115	105
Sc	2	2	2	2	1	4	16	4	4	4	4	7	8	5	13	7	18	7	4	2
Sn	<1	34	30	35	29	35	69	44	48	42	41	38	74	55	115	78	41	6	12	2
Sr	<100	<100	<100	<100	<100	<100	200	<100	100	<100	<100	600	250	150	100	150	175	110	<100	<100
Ti	2100	1600	780	1090	735	1710	8350	1720	3240	1360	2400	2010	4730	3540	4040	6440	3550	3450	2180	1270
V	32	13	38	20	16	40	215	33	57	28	38	140	160	87	105	155	4130	80	51	28
W	3	135	130	140	94	140	165	210	195	165	125	45	230	195	355	195	205	35	46	38
Y	10	22	20	59	49	23	23	43	13	28	55	47	15	13	43	14	165	12	63	24
Zn	130	71	100	180	140	58	170	140	89	65	110	125	115	110	5490	115	840	175	280	205
Zr	40	35	45	140	125	66	180	140	44	150	360	51	20	22	89	28	115	21	145	73

Sample No.
c130g (ppm)

	MEQ120	MEQ121	MEQ122	MEQ123	MEQ124	MEQ125	MEQ126	MEQ127	MEQ128	MEQ129	MEQ130	MEQ131	MEQ132	MEQ133	MEQ134	MEQ135	MEQ136	MEQ137	MEQ138	MEQ139
	15	12	11	53	15	3	<1	2	3	8	3	1	4	2	10	18	12	82	6	28
Ag	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Al	81800	79200	66400	77000	62000	79400	78800	68800	49200	68100	39900	59000	52100	60100	51400	67300	66900	59600	73300	61500
As	190	170	165	190	130	175	220	150	190	195	110	135	140	140	210	280	185	125	200	185
B	185	190	205	235	220	195	200	200	220	270	405	180	215	240	285	265	285	270	300	1050
Ba	430	240	315	255	570	1570	960	1600	1850	750	305	835	420	455	545	2100	330	180	860	370
Be	32	23	38	46	37	34	41	25	36	35	23	21	17	22	26	35	42	21	37	40
Ca	6960	6290	7130	8160	10800	16000	19800	12200	13100	5590	81200	42200	11700	16400	15300	11300	11800	4010	14200	38400
Co	6	4	3	4	5	7	13	4	7	4	8	9	1	2	2	5	7	<1	11	13
Cr	16	15	25	17	18	19	64	12	38	45	11	10	3	6	15	11	9	3	16	23
Cu	15	17	18	14	8	10	17	7	27	32	21	10	1	4	5	<1	7	5	9	25
Fe	20400	9630	20200	17200	21900	24500	27500	17700	25900	24400	17100	15200	10900	14100	17500	24800	26500	12300	25600	29100
La	98	71	36	25	18	39	35	37	42	29	20	12	22	70	49	83	80	88	23	11
Li	40	100	80	40	35	20	65	10	10	15	130	75	15	10	70	10	30	<10	50	70
Mn	290	120	265	170	465	455	435	340	265	210	800	270	175	170	195	145	585	220	730	850
Mo	14	11	10	13	8	10	13	10	15	14	15	7	6	6	64	67	13	9	10	20
Na	30000	31000	33000	26500	22100	28200	29000	18600	25800	28200	13000	16500	18600	20100	18500	24300	18600	20100	21500	6600
Nb	9	16	20	39	17	<1	2	<1	<1	1	<1	<1	3	6	4	12	10	11	2	<1
Ni	12	9	12	9	8	12	31	9	19	20	12	9	6	7	12	11	12	8	13	28
Pb	105	110	94	120	62	69	93	51	82	93	45	57	43	50	32	89	74	59	69	65
Sb	145	135	100	145	83	110	150	88	125	130	68	96	86	86	56	105	99	76	115	89
Sc	2	2	2	3	3	3	5	2	2	2	4	6	1	2	2	3	5	1	7	7
Sn	3	<1	6	9	1	3	6	1	<1	1	8	3	5	4	2	5	2	<1	<1	5
Sr	<100	<100	<100	<100	<100	<100	110	<100	<100	<100	420	340	<100	130	<100	110	100	<100	<100	170
Ti	1500	945	1240	1190	1880	2320	2580	1700	1920	865	1970	3190	1100	1730	1450	2070	2310	1030	3370	2820
V	18	12	22	28	42	34	58	16	24	11	75	55	26	24	97	115	65	4	66	125
W	47	23	18	69	10	15	54	21	84	44	21	21	20	6	<1	11	2	25	17	25
Y	38	50	57	105	64	10	12	10	11	13	13	16	14	43	29	53	49	53	26	30
Zn	220	210	225	275	235	160	160	145	195	190	150	195	160	185	165	185	225	200	165	215
Zr	97	115	125	175	135	37	25	73	79	98	75	85	77	190	185	355	290	155	125	88

Sample No.	MEQ140	MEQ141	MEQ142	MEQ143	MEQ144	MEQ145	MEQ146	MEQ147	MEQ148	MEQ149	MEQ150
U ₃ O ₈ (ppm)	1	7	6	3	3	5	3.35	15	6	3	1
Ag	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
Al	75900	63600	64400	69200	71800	90800	27400	66900	74500	61200	75100
As	210	160	180	180	195	275	66	175	225	155	175
B	290	280	280	275	285	295	220	285	330	325	355
Ba	3910	1220	955	1330	1350	1060	10600	3120	1160	585	935
Be	28	29	26	28	56	52	18	42	47	24	46
Ca	9800	7800	10400	12800	24400	21500	81200	30400	19100	5610	13700
Co	7	6	4	11	20	18	12	10	11	1	11
Cr	15	8	17	15	44	18	8	10	15	1	9
Cu	4	3	10	7	16	19	14	13	15	4	10
Fe	16600	18500	18100	19800	39600	35700	12100	29700	32400	15900	32500
La	71	78	28	24	20	29	18	22	27	71	18
Li	<10	15	20	10	25	30	25	25	25	10	25
Mn	100	260	405	285	460	1150	490	785	815	265	855
Mo	11	11	11	7	13	17	9	12	16	8	10
Na	29000	18600	23600	9400	19300	22100	19300	20800	24300	17900	18600
Nb	11	12	<1	3	5	7	<1	1	4	7	4
Ni	14	8	11	10	16	20	13	14	14	6	12
Pb	105	83	70	59	78	120	18	47	86	60	54
Sb	135	115	105	100	115	180	34	77	130	81	86
Sc	3	3	2	7	9	11	3	8	9	3	8
Sn	15	5	<1	2	10	13	2	2	9	3	6
Sr	150	<100	<100	<100	160	110	200	110	<100	<100	<100
Ti	1580	2200	1610	4070	4820	4480	1400	3450	3600	1695	4090
V	57	10	22	71	140	64	79	77	79	11	68
W	21	15	13	7	31	36	6	22	45	8	16
Y	24	54	10	14	14	36	18	35	38	51	32
Zn	270	215	175	220	230	270	190	220	200	180	215
Zr	370	350	31	135	170	210	57	200	235	255	205

Sample Name 17--101
 c/3a/3b (ppm) 13

	MEQ--152	MEQ--153	MEQ--154	MEQ--155	MEQ--156	MEQ--157	MEQ--158	MEQ--159	MFC--160	MEQ--161	MEQ--162
	6	216	760	500	14	18	492	610	10	10	2130
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	49100	97600	62700	37200	28200	46300	43900	39500	38700	98600	47400
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	599	< 200	< 200
R	70	73	< 10	< 19	< 10	< 21	< 49	< 10	< 7	< 10	< 10
RA	126	286	462	165	121	304	380	188	129	309	151
RB	< 10	< 10	< 10	< 11	< 10	< 10	< 10	< 10	< 10	< 10	< 10
RT	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	1750	5330	17800	100000	47000	5590	806	49700	43400	5940	2210
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	24	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	40	< 10	< 10	21	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	8800	22700	76500	23000	9250	19000	31200	25600	32200	33000	2070
K	38200	87000	30400	24600	36200	60000	53400	25300	18400	41000	25300
LA	< 10	< 10	< 10	< 10	19	< 10	< 10	< 10	11	39	< 10
LI	< 20	< 20	< 20	< 20	787	< 20	1330	< 20	< 20	< 20	< 20
MG	< 100	< 100	< 100	< 100	638	< 100	6200	3500	< 100	< 100	< 100
PN	148	149	352	302	85	643	1100	184	176	73	< 10
PO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15	11	< 10
NA	7690	26300	28100	3330	3940	18400	5120	3350	11000	39400	13000
NH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NT	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	408	191	292	93600	33700	< 100	201	28700	35500	314	342
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	16	12	< 3	17	< 3	< 3	< 3	< 3
SI	35600	285000	273000	222000	271000	248000	271000	234000	206000	388000	278000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	25	58	157	1070	691	50	48	736	438	62	39
TT	1280	1740	3000	1310	1210	1650	1370	1770	3270	1980	385
V	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	17	61	52	< 10	< 10	36	122	13	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZP	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	41	258

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Sample No.	MEQ--163	MEQ--164	MEQ--165	MEQ--166	MEQ--167	MEQ--168	MEQ--169	MEQ--170	MEQ--171	MEQ--172	MEQ--173	MEQ--174
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	24100	37400	36000	35100	19800	44000	15600	41400	14700	20300	15000	15400
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 1	< 37	< 10	< 10	< 10	< 31	< 22	< 10	< 10	< 20	< 10	< 10
BA	1770	554	458	211	146	124	191	139	100	2610	3750	2230
BF	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BT	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	2720	34500	7600	49000	65600	76400	> 100000	46200	4760	> 100000	> 100000	> 100000
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	90	280	< 10	< 10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	163	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	24500	15500	16000	10400	6650	18500	14200	14600	4080	14500	10000	11100
Y	< 5000	18700	54700	24200	43200	64900	26500	32200	14900	5000	5000	5000
LA	< 10	< 47	< 10	< 10	< 10	< 10	< 10	< 10	< 10	56	36	48
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	< 100	< 100	1810	2110	< 100	3270	1210	5440	118	10100	7280	7790
MN	46	21	365	424	283	266	334	274	170	194	107	107
MO	36	34	< 10	17	< 10	< 10	< 10	< 10	< 10	11	10	16
HA	< 100	< 100	29100	19100	5470	3460	9690	8540	9410	17200	1020	< 100
HR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	171	< 100	< 100
N7	54	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	3730	15100	< 100	< 100	15200	9220	29000	11200	< 100	> 100000	80800	76100
PA	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SA	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	5	< 3	< 3	< 3	< 3	< 3
SI	> 450000	312000	286000	143000	249000	247000	244000	196000	219000	95300	100000	97900
SH	< 10	12	< 10	< 10	< 10	< 10	< 10	< 10	< 10	27	< 10	< 10
SR	135	187	45	382	1020	388	659	779	53	327	214	270
TI	1650	2120	1570	1050	925	1490	1000	1110	1030	1570	1230	1350
V	< 100	< 100	< 100	< 100	< 100	< 100	323	325	< 100	100	< 100	< 100
Y	< 10	< 7	23	26	46	43	38	97	< 10	35	27	32
ZH	< 100	< 16	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 6	< 40	< 40	< 40	< 40	< 40	< 40	< 40	113	79	80

Sample No.	MEQ--175	MEQ--201	MEQ--202	MEQ--203	MEQ--204	MEQ--205	MEQ--206	MEQ--207	MEQ--208	MEQ--209	MEQ--210	MEQ--211
c(13)(24)(ppm)	1	21	26	24	29	30	27	20	21	30	17	52
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	49600	20900	19800	30300	31600	33700	31800	34600	23800	24500	42000	34400
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	41	46	31	16	< 10
RA	866	< 100	< 100	137	192	257	230	241	130	156	178	163
PE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	2580	6290	7130	8760	15500	54100	9660	33300	54700	60200	22100	69300
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CP	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	9190	3270	3710	5200	10800	11600	9660	14900	14300	8270	11400	10200
K	33700	15500	15100	18900	30700	21800	48400	29100	25400	23400	57100	23200
LA	36	< 10	< 10	< 10	< 10	22	< 10	< 10	< 10	< 10	< 10	20
LI	< 20	< 20	< 20	< 20	420	710	< 20	277	8820	5730	< 20	1100
MG	< 100	< 100	< 100	< 100	4320	10300	< 100	10500	26000	15000	4170	17800
MN	80	223	200	223	804	1240	272	698	646	705	378	742
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10	< 10	28
NA	8130	6570	6200	11900	14300	4960	26100	1980	1140	2020	5090	5420
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PA	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	252	< 100	< 100	< 100	< 100	< 100	323
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	304000	166000	168000	198000	234000	213000	269000	194000	172000	187000	266000	215000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	108	56	48	149	96	361	70	207	242	188	143	247
TI	1070	702	596	831	1090	1680	925	1650	1130	1010	1060	1540
W	< 100	< 100	< 100	< 100	< 100	511	< 100	< 100	118	< 100	< 100	512
Y	15	45	20	19	17	32	< 10	17	23	23	24	3A
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZP	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEQ--212	MEQ--213	MEQ--214	MEQ--215	MEQ--216	MEQ--217	MEQ--218	MEQ--219	MEQ--220	MEQ--221	MEQ--222	MEQ--223
(U3O ₈) (ppm)	24	30	43	33	13	11	48	32	38	30	28	39
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	28000	35100	69300	73800	35800	36300	37100	55800	24300	38200	59800	46100
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	124	144	18	14	< 10	44	< 10	< 10	14	< 10
BA	107	310	129	174	173	186	177	234	144	248	248	176
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	12500	82900	8120	5290	75700	86700	> 100000	76500	49200	37700	18400	9320
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	5060	11700	11500	18800	11000	11500	10900	20100	8460	12200	11200	8900
K	25000	14400	82700	89600	50600	49700	42800	69000	38200	38600	54900	47400
LA	< 10	< 10	< 10	< 10	< 10	14	< 10	25	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	> 10000	> 10000	5340	1520	778	672	456	< 20
MG	< 100	4570	< 100	< 100	22400	25000	19700	15600	7250	5610	2980	399
MH	341	1170	279	1130	693	829	901	668	314	224	158	118
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	19	< 10	< 10	14	< 10
NA	6010	6240	3940	5750	7090	9980	14900	24200	10200	13300	22500	26700
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	957	354	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	198000	185000	344000	314000	197000	200000	225000	311000	209000	229000	304000	268000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10	< 10	< 10	< 10
SR	115	257	34	31	281	339	415	266	142	174	96	52
TI	916	1080	1000	784	1180	1320	784	1410	419	673	1060	632
W	< 100	< 100	< 100	< 100	< 100	334	< 100	161	< 100	< 100	220	< 100
Y	26	34	12	< 10	< 14	22	< 10	23	< 10	< 10	16	< 10
ZM	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	268	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEQ--224	MEQ--225	MEQ--226	MEQ--227	MEQ--228	MEQ--229	MEQ--230	MEQ--231	MEQ--232	MEQ--233	MEQ--234	MEQ--235
4308 (ppm)	33	25	16	14	3	28	6	6	9	29	6	5
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	49300	55800	35800	26100	40500	56200	40600	70400	39100	38700	63000	39600
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
P	< 10	< 36	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PA	172	191	218	168	417	290	206	292	203	281	326	187
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	11100	9980	10900	52100	9910	8840	7170	11800	9170	10900	32500	10200
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CQ	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 24	< 10
CJ	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	10300	8180	8650	9810	20600	16600	22500	32000	19600	18700	32600	25800
K	42500	58600	15700	25900	21400	34900	17600	28500	8870	5000	37000	8440
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	438	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
LG	< 100	< 100	1520	10600	2480	1820	2430	5510	4080	3520	3030	3370
MN	115	103	178	482	759	374	569	615	313	291	1580	604
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14	< 10	< 10
NA	20900	23300	8570	3780	19400	23600	13600	20900	15100	12400	28600	14600
NP	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	348	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	217	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
ST	257000	272000	200000	173000	188000	208000	173000	223000	199000	211000	229000	170000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	51	56	220	128	135	91	82	125	101	109	137	102
TT	436	559	751	858	1180	1060	1190	1850	1500	1950	1900	1850
V	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	291	< 100	< 100
Y	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Zn	< 40	56	< 40	< 40	< 40	< 40	< 40	< 40	122	52	< 40	< 40

Sample No.	NEQ-236	NEQ-237	NEQ-238	NEQ-239	NEQ-240	NEQ-241	NEQ-242	NEQ-243	NEQ-244	NEQ-245	NEQ-246	NEQ-247
CH ₃ OB (ppm)	4	69	29	4	4	5	15	6	9	8	40	18
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	39900	45700	37900	44800	66000	82800	43700	42400	50400	54100	61200	71400
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	199	< 100	< 100	< 100	< 100
BA	180	290	200	242	417	505	160	< 10	< 10	< 10	< 10	< 10
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	9720	7740	6430	2840	5730
CA	9810	23500	8970	12100	18600	24300	17400	< 10	< 10	< 10	< 10	< 10
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	27	< 10	< 10	102	89	26	23	< 10	< 10	< 10	57
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	36	< 10	< 10
FE	19900	18700	15900	21300	31400	32400	20300	28000	35000	45700	58400	16400
K	7930	8740	< 5000	9480	51200	42600	5480	17500	5830	9610	54900	68400
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	2690	2600	3970	3910	1480	2840	4800	2590	1220	915	< 100	< 100
MN	283	1530	323	308	431	434	2000	477	334	355	307	263
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	31	< 10
NA	13200	14400	9950	14600	41100	34500	11400	17000	9450	6890	24200	40900
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 100	< 100	< 100	< 100	< 100
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	186000	199000	183000	182000	255000	266000	179000	199000	182000	165000	236000	294000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	129	152	99	131	226	247	90	87	72	58	50	64
TI	1360	1670	1440	1300	2490	2790	1570	1770	2670	2540	1620	1410
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	216	302	< 100	< 100
Y	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	43	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	57

Sample No.	MEQ=248	MEQ=246	MEQ=254	MEQ=250	MEQ=252	MEQ=253	MEQ=255	MEQ=255	MEQ=256	MEQ=257	MEQ=258	MEQ=259
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	78800	44900	54300	44100	46300	69700	98600	73700	62600	72700	42200	50200
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	244	186	227	219	316	309	412	583	527	527	214	245
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	10600	4900	4450	12600	13500	13000	17400	23000	14300	11300	12500	57900
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	131	17	62	19	32	76	127	10	10	10	10	10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	24300	19100	15400	27100	34200	28100	32800	42900	27200	25400	24900	27100
K	76700	29300	41600	20500	31000	64500	60100	38000	70400	58100	7430	28000
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 910
MG	657	< 100	< 100	2920	3040	1680	1700	3090	930	905	5370	8560
MN	302	526	586	450	720	563	529	623	345	316	445	1080
MC	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15	< 10	< 10	< 10	26
NA	47400	19900	29000	22400	24100	29500	32800	18900	34300	28100	13900	11700
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	596	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	274000	194000	231000	212000	227000	237000	235000	203000	285000	265000	189000	218000
SH	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	78	43	47	158	213	120	139	548	343	388	161	223
TI	1720	1120	1120	1540	2450	2390	2610	3580	2210	2380	1770	2470
W	< 100	< 100	< 100	< 100	584	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	< 10	22	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	127	< 40	< 40	46	49	< 40	< 40	< 40

Sample No.	REQ#200	REQ#201	REQ#202	REQ#203	REQ#204	REQ#205	REQ#206	REQ#207	REQ#208	REQ#209	REQ#210	REQ#211	REQ#212
c13 O ₂ (ppm)	29	21	26	14	14	10	11	23	10	24	26	18	
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	35500	56300	27400	44600	39100	25900	38800	53800	43900	73600	44100	60600	
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 12	< 10	< 10	< 27	< 10	< 10	< 10	< 10	< 10	< 10
BA	151	198	421	407	339	277	337	408	384	545	376	238	
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	> 100000	32700	7290	13400	11900	6730	7300	11500	8180	10800	7300	12100	
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	69	47	15	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	28000	45800	8000	19500	17200	10800	19200	24000	17400	18100	16700	30200	
K	14100	13600	< 5000	11500	8450	5060	10300	17800	10200	31600	16200	15100	
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	610	245	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	10300	8540	< 100	3240	2040	557	1230	1990	1570	2480	1270	3210	
MN	3010	929	248	334	332	302	260	275	234	266	271	436	
MO	67	49	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	11	
NA	9240	14800	7890	8370	8000	6950	8500	12800	8290	19500	11000	17100	
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	196	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	11	3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	176000	238000	94000	284000	240000	260000	215000	240000	230000	305000	240000	207000	
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	263	190	123	162	166	110	118	160	128	148	122	104	
TI	2150	3570	1610	1860	1910	1250	1800	2100	2050	2270	2170	2530	
W	324	232	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	242	< 100	
Y	< 10	14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	60	40	147	144	150	102	150	150	164	185	204	187	

Sample No (1/10 ppm)	MEQ--272	MEQ--273	MEQ--274	MEQ--275	MEQ--276	MEQ--277	MEQ--278	MEQ--279	MEQ--280	MEQ--281	MEQ--282	MEQ--283
	2	24	8	4	18	7	330	272	410	12	9	9
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	55100	67000	53300	83300	28900	23000	34100	29800	51800	47700	41400	73500
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	12	< 10	< 10	< 10	< 10	< 10	274	< 10	27	< 10	< 10	< 10
BA	226	514	179	265	1110	140	220	159	748	626	688	937
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	17800	9790	10200	6760	10200	90500	11100	8840	25300	10000	16100	39000
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CF	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	39	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	117
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	33900	19900	18700	12800	11000	11100	19400	10500	33300	7250	8070	27500
K	13500	13800	5210	41400	16100	28500	< 5000	< 5000	21200	11000	25400	31200
LA	14	< 10	< 10	< 10	69	19	22	21	82	17	41	37
LI	< 20	< 20	< 20	< 20	< 20	178	< 20	< 20	< 20	< 20	< 20	< 20
MG	3470	3570	4140	< 100	1740	21600	3400	3740	3310	< 100	< 100	25800
HN	1010	392	520	216	38	160	37	31	1050	42	114	269
HO	16	< 10	< 10	< 10	25	< 10	12	< 10	35	< 10	< 10	< 10
HA	12100	17600	11000	29000	10900	9670	8190	6600	20200	26300	16300	24000
HB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	1490	< 100	< 100	743
PH	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	6	< 3	< 3	< 3
SI	217000	230000	201000	304000	186000	198000	207000	196000	270000	273000	292000	302000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	48	< 10	< 10	16
SR	98	142	69	70	1070	409	166	126	363	223	78	392
TI	3260	2590	1850	1870	1420	1230	2080	2000	3790	457	713	2690
V												
W	753	< 100	< 100	103	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	19	< 10	< 10	< 10	43	18	28	17	51	38	42	16
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	300	211	163	177	335	< 40	160	< 40	103	98	63	< 40

Sample No.	MEQ--284	MEQ--285	MEQ--286	MEQ--287	MEQ--288	MEQ--289	MEQ--290	MEQ--291	MEQ--292	MEQ--293	MEQ--294	MEQ--295
CH ₂ O (ppm)	1030	4	5	4	6	17	49	59	39	139	8	25
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	56300	83500	50900	47300	46000	49400	23100	36800	47300	48900	36400	55700
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	73	12	< 10	< 10	22	79	89
BA	379	540	466	343	346	873	158	168	340	464	203	294
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	14800	14700	18470	8220	6970	5080	11300	10900	12700	56500	7720	14000
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	23900	21400	14700	19300	16900	13300	12000	14500	8320	17200	13100	54400
K	29600	49300	31100	33900	17800	69500	55400	50300	23200	71700	83300	77500
LA	< 10	16	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	244	2580	165	218	123	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MN	1420	495	555	531	316	< 100	76	81	83	94	894	2000
MO	< 10	16	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	22
NA	28600	31500	18000	19900	11800	4230	< 100	1780	6970	7660	7680	8270
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	700	< 100	< 100	< 100	412	3930	6150	3100	22300	< 100	2590
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	252000	325000	273000	244000	227000	294000	244000	295000	281000	334000	253000	271000
SH	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	165	176	116	102	110	39	59	78	91	170	75	109
TI	2050	2690	2050	2210	1820	634	705	932	894	1500	542	1090
W	< 100	350	157	450	< 100	< 100	< 100	< 100	< 100	298	< 100	< 100
Y	< 10	13	< 10	13	< 10	< 10	< 10	< 10	< 10	30	15	27
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	245	201	222	210	< 40	< 40	< 40	< 40	< 40	< 40	49

Sample No.
 c113(Or 6pm)

	MEQ--296	MEQ--297	MEQ--298	MEQ--299	MEQ--300	MEQ--301	MEQ--302	MEQ--303	MEQ--304	MEQ--305	MEQ--306	MEQ--307
	23	38	16	44	76	98	133	83	138	18	14	31
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	55700	56400	55200	24900	38700	36100	31600	42500	43300	55800	40100	37400
AS	200	200	200	200	200	200	200	200	200	200	200	200
B	100	65	110	51	61	65	44	67	62	95	77	52
BA	733	702	214	148	145	651	128	168	319	158	154	131
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	11200	19200	13800	8430	18500	24000	30500	23400	28800	18310	7120	7590
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	51600	54800	28900	20700	23600	30200	24500	27500	25900	28800	33900	30900
K	84500	76000	84600	41300	56600	61900	49700	60600	70200	63500	62300	61600
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MN	1100	943	404	483	369	282	222	322	442	187	148	219
MO	16	17	< 10	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10
NA	8220	7250	5740	786	2470	3860	757	3670	6490	6640	7270	4770
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	1920	3290	675	2900	4710	9300	11600	8700	11600	1030	< 100	1360
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	251000	240000	270000	296000	261000	313000	284000	301000	286000	285000	295000	300000
SM	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SP	79	59	55	37	49	119	100	107	107	50	45	64
TI	1230	907	857	762	507	1110	902	1280	1070	992	996	977
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	25	12	< 10	< 10	< 10	14	11	19	19	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No	MEQ--308	MEQ--309	MEQ--310	MEQ--311	MEQ--312	MEQ--313	MEQ--314	MEQ--315	MEQ--316	MEQ--317	MEQ--318	MEQ--319
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	32500	42900	47000	55800	57700	50800	52800	34400	32200	42900	38800	38300
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
A	37	44	10	10	10	10	10	10	10	10	10	10
BA	130	144	229	460	303	254	302	216	120	166	147	224
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
RI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	10700	21200	11600	19700	14300	9850	30300	30300	4090	3960	3780	5410
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	13100	11300	30500	14000	14900	16200	15500	8430	17000	17900	15800	9750
K	47200	66200	53800	35400	32100	27700	28600	30300	30300	29000	21800	47600
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	73	120	52	192	< 20	< 20	< 20	< 20	< 20
MG	< 100	< 100	< 100	4940	4260	4310	4390	4370	2660	3670	3190	< 100
MN	142	131	364	315	383	591	534	412	140	77	78	203
MD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	1230	1970	4010	12400	13100	11400	10100	1050	5860	6570	2710	27600
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NT	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	3440	6120	2500	< 100	< 100	< 100	< 100	1990	< 100	< 100	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	277000	298000	248000	268000	221000	203000	229000	198000	318000	270000	291000	268000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	56	100	116	369	180	130	282	102	52	51	56	56
TI	1110	1370	979	1490	1210	1260	1160	970	1570	1730	1660	1220
W	< 100	< 100	< 100	181	< 100	< 100	< 100	138	101	300	249	< 100
YN	< 10	11	13	14	< 10	< 10	< 10	23	< 10	< 10	< 10	< 100
ZR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
	< 40	< 40	< 40	< 40	< 40	< 40	< 40	251	< 40	41	< 40	< 40

Sample No.	MEO--320	MEO--321	MEO--322	MEO--323	MEO--324	MEO--325	MEO--326	MEO--327	MEO--328	MEO--329	MEO--330	MEO--331
<i>cU₃O₈ (ppm)</i>	7	6	18	25	18	11	46	28	8	8	57	331
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	32600	29800	38800	16100	41300	33300	35700	35100	29700	28900	27500	33000
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 32	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	205	156	190	123	141	124	203	257	186	106	195	141
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	47500	27300	62500	36200	7820	4650	4490	4530	18000	1230	10800	39400
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	16400	10100	19100	8370	19900	13700	27500	24700	19600	14900	34200	13200
K	39000	40300	60400	5000	37300	26000	29100	24400	41700	62500	45700	42500
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	2860	2190	1050	238	20	20	20	20	20	20	20	20
MG	11500	7830	5050	5470	960	580	2000	2810	1010	100	20	20
MN	415	267	740	364	134	121	81	529	419	80	220	1170
MO	< 10	< 10	< 10	11	10	10	15	10	10	10	367	153
NA	2380	1620	4200	100	3830	6270	7400	8010	9080	7730	5150	3040
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	278	< 100	1280	< 100	108	574	2030	< 100	2190	13300
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	182000	195000	140000	155000	298000	216000	210000	186000	256000	256000	207000	261000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	216	115	151	133	120	76	144	224	106	34	146	433
TI	1570	1130	1920	1100	1610	611	1290	1570	1080	716	910	1110
W	< 100	< 100	405	525	< 100	< 100	< 100	226	< 100	< 100	< 100	< 100
Y	< 10	< 10	43	20	12	< 10	< 10	13	< 10	< 10	< 10	< 10
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	73	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No	MEQ--332	MEQ--333	MEQ--334	MEQ--335	MEQ--336	MEQ--337	MEQ--338	MEQ--339	MEQ--340	MEQ--341	MEQ--342	MEQ--343
all O&A (top)	141	35	17	8	18	91	17	33	25	13	29	30
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	29000	13100	32300	40100	32100	45200	46600	21200	32200	26700	23600	29300
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	114	134	254	273	382	294	317	205	240	176	184	214
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	14400	6210	30300	7390	10300	23000	9560	36400	52800	66300	46100	28000
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	14000	5670	11200	13000	9880	15700	13500	12100	14000	15700	9100	7820
K	40500	< 5000	31800	37900	30600	63000	56800	15200	27300	23100	13700	19600
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	1610	< 20	< 20	< 20	452	2980	1520	4940	3920	953
MG	< 100	< 100	6570	1300	610	625	3010	9140	6410	21700	10600	4000
MN	111	102	562	128	1510	354	449	631	611	433	762	350
MO	< 10	< 10	< 10	16	< 10	< 10	< 10	< 10	< 10	13	< 10	< 10
NA	405	2440	9190	12200	1950	8940	2990	1030	2240	11300	3050	5610
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	3940	< 100	< 100	< 100	< 100	< 100	5340	181	1630	752	< 100	744
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SA	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	229000	164000	207000	242000	203000	272000	249000	171000	232000	197000	149000	219000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	186	140	158	67	320	271	241	220	236	253	194	219
TI	1200	853	831	1090	813	842	1310	1340	1220	1150	895	870
W	< 100	158	< 100	< 100	< 100	< 100	< 100	481	177	< 100	129	< 100
Y	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10	< 10	15	< 10
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	52	< 40	< 40	< 40	55

Sample No.	MEQ--344	MEQ--345	MEQ--346	MEQ--347	MEQ--348	MEQ--349	MEQ--350	MEQ--501	MEQ--502	MEQ--503	MEQ--504	MEQ--505
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	21100	36900	30100	38700	34000	16300	29300	33600	49200	26100	53800	23300
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 32	< 10	< 10	< 10	< 10	< 92	< 10	< 76	< 10
BA	230	194	189	191	327	138	211	257	329	164	201	158
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	44100	48200	20000	5700	28900	54900	54400	10900	4390	63900	63800	> 100000
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	4730	15800	7530	13500	11200	8290	11300	10100	11400	13500	13600	16800
K	18100	23000	37500	59100	38800	12200	14100	29900	93000	57200	68300	31200
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	1120	1590	48	228	296	5330	223	981	481	2830	1940	6690
MG	12600	18500	2970	156	1420	17400	5720	3930	485	13300	12500	32000
MN	340	362	232	320	578	359	509	240	841	423	331	832
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 11	< 10	< 10	< 10	< 14	< 18
NA	1860	5500	639	10900	3770	< 100	< 100	8820	7410	2400	4180	955
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	1020	9270	< 100	911	1650	< 100	< 100	< 100	< 100
PS	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	179000	220000	211000	315000	287000	165000	186000	223000	280000	194000	255000	157000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	214	153	101	70	422	176	192	175	46	173	147	259
TI	874	1240	615	1280	926	776	915	867	844	1140	1310	1100
W	< 100	< 100	< 100	150	< 100	< 100	< 100	< 100	< 100	< 100	< 100	355
Y	< 10	< 10	< 10	24	< 10	< 10	< 10	15	14	< 10	< 10	12
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	86	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No	MEQ--506	MEQ--507	MEQ--508	MEQ--509	MEQ--510	MEQ--511	MEQ--512	MEQ--513	MEQ--514	MEQ--515	MEQ--516	MEQ--517
21308(ppm)	13	48	41	16	63	9	39	720	33	25	33	15
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	40400	34700	40600	56600	33100	52200	42700	34800	58800	39800	64900	51200
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
R	< 10	< 10	< 10	< 14	< 10	< 10	< 73	< 17	< 10	< 10	< 17	< 15
BA	206	170	136	230	164	239	106	136	137	117	256	272
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 5	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	75100	62600	50800	5330	14900	3920	16700	91300	14100	5480	11500	7450
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 74	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	12600	14600	16400	12100	16400	16800	10400	27300	19700	15500	18900	15800
K	47300	19000	9570	62800	41900	44200	57400	46800	63500	48800	54700	48100
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	4120	597	114	317	486	298	< 20	< 20	< 20	< 20	278	306
MG	14100	6000	7150	4530	2030	4350	< 100	< 100	< 100	< 100	3140	3700
MN	461	425	386	182	155	176	125	158	81	76	194	285
MO	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	1610	1030	626	661	< 100	4290	2790	1670	3410	< 100	9450	7080
NR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	3710	853	< 100	1610	< 100	3500	28600	2600	969	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	207000	224000	220000	265000	266000	261000	354000	252000	309000	316000	288000	277000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	209	275	195	32	46	55	64	299	134	136	185	146
TI	1090	1260	1270	1240	1110	1670	1230	1630	1920	1810	2070	2100
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	118
Y	< 10	< 10	< 10	< 10	< 10	< 10	33	132	< 10	< 10	< 10	12
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 42	< 40	< 40	< 40	< 40

Sample No.	MEQ--518	MEQ--519	MEQ--520	MEQ--521	MEQ--522	MEQ--523	MEQ--524	MEQ--525	MEQ--526	MEQ--527	MEQ--528	MEQ--529
cU ₃ O ₈ (ppm)	12	4	4	1	5	5	4	73	11	9	8	29
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	36100	65700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AS	< 200	< 200	49200	28500	37300	86900	43400	49300	40500	31000	29100	59200
B	< 10	18	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
BA	178	273	205	186	351	43	10	21	< 10	< 10	56	63
BF	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	285	< 100	150
BT	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CA	8150	9140	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 10	< 10	< 10
CD	< 10	< 10	4840	41700	5310	840	5080	23800	7640	13300	5950	16000
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	8870	11300	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
K	31100	53300	6680	6960	6280	16200	6180	7850	14400	8090	10800	19800
LA	< 10	< 10	65100	24000	14100	64000	24900	57100	33300	9440	36500	67400
LI	< 20	< 20	< 10	16	22	< 10	< 10	< 10	< 10	< 10	< 10	< 10
MG	1530	2510	< 20	5080	< 20	< 20	< 20	< 20	346	< 20	< 20	< 20
MH	409	189	< 100	19800	5370	2840	4010	520	6110	4180	< 100	< 100
MO	< 10	< 10	132	655	1570	286	423	438	643	198	108	106
NA	8710	5870	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	< 10	11
NR	< 100	< 100	5500	7390	989	18200	2110	9660	3230	2750	6160	9010
NI	< 40	< 40	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
P	< 100	< 100	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
PR	< 40	< 40	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SR	433	< 100	< 40	< 40	< 40	< 40	< 40	6890	602	< 100	776	3760
SC	< 3	< 3	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SI	242000	290000	< 3	3	3	3	3	3	3	3	3	3
SM	< 10	< 10	262000	185000	233000	313000	219000	276000	263000	245000	309000	296000
SR	145	212	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TI	1660	1250	145	198	214	124	156	104	79	225	39	163
			959	1220	1410	1710	1020	1580	1680	1090	1120	2340
W	342	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	19	< 10	< 10	25	25	19	< 10	< 10	21	13	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	77	753	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEQ--530	MEQ--531	MEQ--532	MEQ--533	MEQ--534	MEQ--535	MEQ--536	MEQ--537	MEQ--538	MEQ--539	MEQ--540	MEQ--541
cH ₃ DB (ppm)	19	24	18	18	6	6	45	10	141	14	77	10
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	87800	29500	87700	45600	56300	94100	76000	79600	51300	55300	55500	35200
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	59	10	10	10	138	40	54	43	22	25	15	34
BA	158	414	239	304	100	264	196	217	131	159	149	113
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	4110	17500	6200	43800	300	2270	11000	3730	33200	1820	29900	721
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	18900	10700	10900	17900	5820	6040	6280	8730	15600	15100	27100	21100
K	66200	5000	53000	22400	61600	72700	66400	67300	64600	52900	69200	46100
LA	< 10	17	28	58	< 10	< 10	< 10	< 10	< 10	< 10	14	< 10
LI	< 20	< 20	< 20	2590	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	973	1030	< 100	10400	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MN	107	132	99	721	93	84	84	105	107	86	94	135
MO	< 10	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10	25	16
NA	7260	5570	33400	21000	4690	21600	12600	11500	7030	4350	4070	1020
NR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	4090	< 100	378	< 100	< 100	2870	129	14500	< 100	10800	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	705	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	311000	252000	311000	248000	278000	312000	311000	305000	254000	331000	294000	322000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SP	45	474	60	226	25	73	108	159	180	109	340	37
TI	1940	1410	1430	2500	876	1380	1420	1650	1570	1560	1930	1190
W	< 100	< 100	< 100	695	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	15	24	15	40	< 10	< 10	< 10	< 10	41	< 10	35	< 10
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	198	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEQ--542	MEQ--543	MEQ--544	MFO--545	MEQ--546	MEQ--547	MFO--548	MEQ--549	MEQ--550	MEQ--551	MEQ--552	MEQ--553
CH ₃ O ₂ (ppm)	20	20	111	78	262	73	231	15	28	25	20	23
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	40800	57200	51700	33300	29100	55400	45600	58400	19400	50400	43400	46800
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	17	95	71	43	75	12	17	37	< 10	93	13	75
BA	123	117	129	123	< 100	131	119	119	110	151	276	215
BE	< 10	< 10	< 10	< 10	< 10	17	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	4100	29400	39200	20900	62400	20200	59600	4940	51300	6800	14600	10600
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	8870	9630	17100	25500	51700	17000	16000	14700	6400	11300	13200	21600
K	38800	74200	59700	34600	33000	50200	59800	64400	< 3000	52700	25900	50700
LA	< 10	< 10	20	< 10	< 10	< 10	< 10	< 10	20	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
MG	< 100	3560	< 100	< 100	< 100	< 100	< 100	223	6840	< 100	1810	3130
HN	81	144	158	191	278	95	95	102	448	203	269	651
MO	< 10	< 10	17	28	37	13	16	11	20	< 10	< 10	12
NA	315	12800	7430	2700	711	3630	2740	6150	< 100	3440	15000	6330
NR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	657	657	9980	5640	32200	6830	32000	350	< 100	1270	1320	1430
PR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	335000	290000	337000	312000	268000	285000	318000	325000	157000	310000	244000	321000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	87	91	117	69	98	170	236	91	108	47	191	50
TI	1400	1020	1420	1130	988	1630	2120	1700	1220	1180	1700	1860
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	11	12	73	22	74	17	61	13	28	12	16	20
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	106	< 40	< 40	< 40

Sample No.	MEO--554	MEO--555	MEO--556	MEO--557	MEO--558	MEO--559	MEO--560	MEO--561	MEO--562	MEO--563	MEO--564	MEO--565
all (g/gm)	76	5	25	10	13	53	20	19	11	9	11	37
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	80400	47800	36500	30000	65900	44700	37400	52500	63100	39800	54400	38300
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	85	52	< 10	< 10	47	23	19	< 10	45	40	56	< 10
BA	204	105	204	227	199	252	243	259	275	197	253	175
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BT	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	59100	3240	> 100000	28200	5430	13500	13100	34400	13900	73700	23200	> 100000
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FF	21800	4140	16400	8320	15600	20300	17600	10900	13200	12300	11000	18600
K	75000	43800	8470	< 5000	64700	54000	37600	20900	45700	44900	50300	26100
LA	33	< 10	28	12	< 10	< 10	< 10	14	< 10	< 10	< 10	30
LI	< 20	< 20	61	< 20	< 20	< 20	< 20	661	< 20	7480	1080	3720
MG	6380	< 100	8960	4170	167	1780	< 20	3370	9410	8080	24200	6420
MN	144	88	767	240	361	934	204	307	205	505	107	47100
MO	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	214
NA	15900	3259	2800	4050	7790	2910	7580	5880	11900	3330	8050	1540
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	12200	< 100	2260	< 100	< 100	3200	1060	355	420	< 100	< 100	374
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	317000	305000	180000	195000	285000	295000	300000	262000	282000	233000	267000	250000
SN	24	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	390	36	255	229	44	137	137	342	133	218	116	285
TI	2480	1320	1800	1490	1350	1940	1770	1670	1440	1340	1140	1840
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	48	12	27	19	< 10	16	< 10	19	15	13	< 10	25
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	45

Sample No	MEQ--566	MEQ--567	MEQ--568	MEQ--569	MEQ--570	MEQ--571	MEQ--572	MEQ--573	MEQ--574	MEQ--575	MEQ--576	MEQ--577
d13Os (ppm)	13	5	16	36	32	102	39	27	17	12	15	9
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	45600	40500	38600	39700	43800	44400	45900	28400	39800	43000	41400	49600
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	220	134	302	242	270	255	265	218	204	327	180	224
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	41100	23100	8600	24800	20200	41700	19400	48700	59300	> 100000	75100	43100
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	9470	9070	6650	8860	8460	9030	7700	7320	18800	18500	17200	14200
K	17300	< 5000	12300	17900	24500	26800	24300	23400	25500	22900	23900	39400
LA	15	< 10	28	13	< 10	< 10	< 10	< 10	32	17	20	34
LI	320	< 20	< 20	< 20	< 20	75	< 20	4710	476	1300	434	207
MG	8720	6800	5590	6880	5610	7160	5130	15000	13500	29500	28700	12600
MN	374	252	151	354	274	469	396	327	707	623	535	335
MO	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18	14	23	16
NA	7280	160	2930	3860	6430	6650	8520	3490	5910	5850	4710	7420
NR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	726	1750	908	2550	497	642	575	< 100	< 100	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	222000	219000	247000	228000	229000	205000	221000	209000	282000	209000	250000	326000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	161	70	223	163	127	234	134	226	206	383	225	148
TI	1410	1260	1370	1560	1450	1440	1320	1360	1930	1100	1820	1930
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	115
Y	69	< 10	74	25	17	28	35	19	26	20	22	74
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	52	< 40	53	57	< 40	< 40	< 40	< 40	< 40	< 40	< 40	45

Sample No.	MEQ--578	MEQ--579	MEQ--580	MEQ--581	MEQ--582	MEQ--583	MEQ--584	MEQ--585	MEQ--586	MEQ--587	MEQ--588	MEQ--589
AG	10	10	10	10	10	10	10	10	10	10	10	10
AL	45000	51700	36000	43500	30000	39300	31900	39400	35700	41200	51400	58600
AS	200	200	200	200	200	200	200	200	200	200	200	200
B	10	110	74	59	40	28	10	10	62	61	35	67
BA	168	183	121	123	105	136	271	276	215	174	174	227
BE	10	10	10	10	10	10	10	10	10	10	10	10
BT	50	50	50	50	50	50	50	50	50	50	50	50
CA	62700	38900	4730	21800	51000	16300	8120	9620	62600	9160	8490	8580
CD	10	10	10	10	10	10	10	10	10	10	10	10
CO	10	10	10	10	10	10	10	10	10	10	10	10
CR	10	10	10	10	10	10	10	10	10	10	10	99
CU	10	10	10	10	10	10	10	10	10	10	10	10
FE	15400	18900	6770	13700	13900	17000	11400	13100	18300	13900	15900	16000
K	10600	64700	36000	44400	30600	47900	8910	10100	58500	43100	49400	43700
LA	18	34	10	10	10	10	10	10	18	51	10	10
LI	20	20	20	20	20	20	20	20	20	20	20	20
MG	8640	2900	100	100	100	100	1240	3370	2970	100	1200	3310
MN	378	421	114	148	283	253	394	279	299	239	224	315
MO	21	15	10	10	10	10	10	10	15	10	10	15
NA	3340	14800	7070	4730	1730	2390	5960	8350	14700	3580	4190	8090
NR	100	100	100	100	100	100	100	100	100	100	100	100
NI	40	40	40	40	40	40	40	40	40	40	40	40
P	856	5360	860	5370	26400	4310	100	724	23300	40	40	104
PB	40	40	40	40	40	40	40	40	40	2160	1250	100
SA	100	100	100	100	100	100	100	100	100	40	40	40
SC	3	3	3	3	3	3	3	3	7	3	3	3
ST	240000	309000	338000	367000	350000	282000	259000	247000	334000	366000	347000	321000
SN	10	10	10	10	10	10	10	10	15	10	10	10
SP	216	117	38	74	34	99	251	278	246	85	84	92
TI	1500	1860	997	1580	1620	1880	1460	1740	2230	1720	2020	1580
W	100	100	100	100	100	100	100	100	176	100	100	100
Y	28	27	10	10	20	20	10	25	95	17	13	10
ZN	100	100	100	100	100	100	100	100	100	100	100	100
ZR	47	40	40	40	40	40	40	40	78	40	40	40

Sample No	MEQ--590	MEQ--591	MEQ--592	MEQ--593	MEQ--594	MEQ--595	MEQ--596	MEQ--597	MEQ--598	MEQ--599	MEQ--600	MEQ--601
CH ₂ O ₈ (ppm)	24	4	7	17	15	9	67	13	92	8	96	9
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	61500	54900	43100	25500	32400	29300	38500	26900	48300	59400	40900	58800
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	18	64	31	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	181	203	220	172	287	231	242	235	260	327	205	327
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	13000	3090	5050	59000	56100	40900	81800	44100	31400	69500	58100	6710
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	14100	9600	10970	7910	9270	9060	15500	9470	15400	16200	19300	8560
K	33200	65100	43490	25500	21500	16400	22500	15800	31100	32700	28600	41200
LA	< 10	< 10	< 10	< 10	< 10	< 10	23	< 10	24	25	< 10	< 10
LI	< 20	141	1060	4650	1160	1700	378	< 20	< 20	< 20	< 20	< 20
MG	1510	862	4860	19200	10300	14100	7470	4250	5270	6680	3690	2640
MN	208	177	269	377	305	372	676	412	275	529	493	232
MO	< 10	< 10	< 10	< 10	11	< 10	34	13	18	19	23	< 10
NA	4420	7930	12900	2950	2920	2350	3940	3370	15300	8600	3630	9190
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	653	< 100	< 100	< 100	< 100	< 100	3050	133	4440	< 100	2040	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	287000	323000	298000	174000	268000	197000	248000	225000	268000	279000	253000	299000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	89	34	47	168	257	148	344	183	319	216	274	177
TI	1280	1240	1100	1290	1380	1300	1780	1280	1610	1720	1360	1360
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	< 10	< 10	< 10	30	13	25	24	15	11
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZP	< 40	< 40	44	< 40	< 40	< 40	75	< 40	60	44	< 40	< 40

Sample No.	MEQ--602	MEQ--603	MEQ--604	MEQ--605	MEQ--606	MEQ--607	MEQ--608	MEQ--609	MEQ--610	MEQ--611	MEQ--612	MEQ--613
CL ₂ O ₃ (ppm)	21	8	14	23	26	131	9	4	7	53	10	9
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	69800	61000	28900	31400	51300	52300	32900	24100	65400	23000	53700	55900
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	27	30	26	< 10	< 10	< 10	< 10	< 10	31	26	27	20
BA	369	256	177	163	285	365	151	362	257	179	210	186
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	11000	5420	73200	41200	62000	43900	5190	5770	3140	10600	3080	3220
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	9220	7950	7430	13200	17700	33700	8810	22500	14000	13200	19200	15600
K	48500	56000	33300	7960	24300	49100	20800	61200	60300	62100	61800	51000
LA	24	< 10	< 10	< 10	22	11	< 10	< 10	< 10	< 10	< 10	< 10
L1	< 20	93	3490	137	271	< 20	< 20	< 20	< 20	< 20	< 20	178
MG	3500	3940	10800	9450	11400	1690	2850	< 100	< 100	525	383	1590
MN	209	138	431	425	454	1310	136	1060	534	313	391	215
MO	< 10	< 10	< 10	11	19	19	13	15	< 10	< 10	< 10	< 10
NA	10400	6530	3250	1920	7030	4960	4020	35400	27500	4970	5560	5520
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	799	< 100	< 100	< 100	< 100	13500	603	< 100	< 100	440	< 100	< 100
PA	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	7	< 3	< 3	< 3	< 3	< 3	< 3
SI	353000	297000	263000	216000	264000	305000	296000	346000	298000	240000	288000	282000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SP	230	69	250	143	226	75	69	65	46	82	31	34
TI	1830	1160	1270	1180	1040	2250	1250	1220	1350	851	959	873
W	< 100	< 100	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	27	< 10	12	11	16	37	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZP	< 40	< 40	42	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	REF-016	REF-018	REF-016	REF-017	REF-018	REF-019	REF-020	REF-021	REF-022	REF-023	REF-024	REF-025
U ₂ O ₈ (ppm)	30	86	22	31	11	19	23	90	23	53	20	5
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	50200	51600	49200	42700	48000	47100	54000	51400	67400	41700	37900	42100
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 20	< 10	< 23	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 22	< 30
BA	298	265	298	199	212	203	183	213	259	192	135	142
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BJ	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	17600	12400	6960	6690	4790	5720	6580	19500	15200	23400	7440	431
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	17300	26400	20300	11400	14300	23700	12400	25000	19500	12300	6910	7850
K	58200	80000	65400	43500	37400	42100	47800	56100	55200	37800	42000	57400
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 28	< 249	< 176	< 244	< 470	< 20	< 20	< 20	< 20	< 20	< 20
MG	896	1200	1500	3610	4250	2890	1920	< 100	1490	< 2750	< 100	< 100
MN	1600	639	1120	516	636	232	217	918	352	304	345	349
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	6160	8870	9540	4790	8300	12000	12300	9820	18300	8200	3230	2950
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NJ	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	1050	693	< 100	< 100	< 100	< 100	< 100	2550	< 100	4340	183	< 100
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	290000	211000	272000	274000	288000	258000	256000	249000	251000	261000	294000	295000
SII	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	91	133	84	75	46	63	63	164	94	180	54	24
TI	1040	759	927	1140	927	1060	767	790	793	890	964	836
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.
 44308 (ppm)

	58	28	7	1	9	10	11	7	14	14	9	73
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	< 46300	< 40300	< 69700	< 74600	< 38600	< 60000	< 49400	< 56700	< 45200	< 30200	< 52900	< 38200
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	< 220	< 164	< 189	< 185	< 227	< 263	< 243	< 241	< 224	< 191	< 255	< 201
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	< 20300	< 13300	< 5040	< 5300	< 6350	< 44100	< 47100	< 38500	< 30800	< 22000	< 8540	< 41800
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	< 30900	< 23500	< 16900	< 14800	< 6530	< 13200	< 11300	< 12500	< 10300	< 6750	< 12300	< 12000
K	< 50400	< 40400	< 5100	< 63100	< 24800	< 44800	< 31400	< 54100	< 30600	< 23500	< 37200	< 15600
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	< 20	< 20	< 20	< 20	< 320	< 544	< 561	< 253	< 163	< 20	< 20	< 20
MG	< 3090	< 993	< 100	< 100	< 4850	< 6070	< 6920	< 4070	< 3660	< 1110	< 1190	< 5660
MN	< 1230	< 357	< 221	< 197	< 324	< 521	< 635	< 779	< 522	< 497	< 1120	< 696
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	< 4620	< 4090	< 33600	< 40800	< 10200	< 28900	< 19300	< 34700	< 21500	< 15500	< 26700	< 6160
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 2650	< 812	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 2120
PR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	< 279000	< 275000	< 260000	< 291000	< 247000	< 270000	< 243000	< 256000	< 231000	< 200000	< 268000	< 203000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	< 151	< 57	< 49	< 49	< 111	< 163	< 167	< 126	< 143	< 111	< 99	< 215
TI	< 1070	< 911	< 747	< 726	< 580	< 854	< 793	< 892	< 668	< 531	< 687	< 640
W	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEO--638	MEO--639	MEO--640	MEO--641	MEO--642	MEO--643	MEO--644	MEO--645	MEO--646	MEO--647	MEO--648	MEO--649
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	38600	55600	16600	32200	48400	38200	55400	38000	49300	31700	49400	35200
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 17	< 10	< 10	< 17	< 10	< 11	< 34	< 14	< 10	< 24	< 10
BA	201	227	149	131	189	312	242	219	212	191	234	153
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	27400	21900	70200	59500	15400	11000	10700	14200	17000	8570	15500	12200
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FE	11100	9860	9720	12100	21800	25400	14500	16300	17100	15200	15400	14600
K	20500	59800	6030	8370	41400	36800	49800	30500	28900	19100	44300	19400
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	450	915	2430	< 20	254	< 20	548	323	74	100	492	< 20
MG	4510	5930	11300	3670	5820	3290	3300	6140	5950	4870	7510	4450
MN	452	463	622	408	402	1210	341	1150	503	551	558	189
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	4730	6760	< 100	1160	3500	6520	9700	11100	14000	2250	8510	2340
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	453	< 100	< 100	< 100	1760	< 100	< 100	< 100	< 100	< 100	< 100	1620
PB	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	290000	277000	154000	219000	258000	216000	287000	283000	275000	248000	293000	275000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	175	98	149	191	200	139	179	91	96	67	85	135
TI	702	699	1070	1320	2880	1810	1950	1930	1640	1550	1680	1280
W	< 100	< 100	< 100	< 100	146	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	< 10	17	< 10	13	< 10	< 10	< 10	< 10	< 10
ZH	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No
 44508 (ppm)

	MEQ--650	MEQ--651	MEQ--652	MEQ--653	MEQ--654	MEQ--655	MEQ--656	MEQ--657	MEQ--658	MEQ--659	MEQ--660	MEQ--661
AG	7	16	7	15	8	12	7	7	7	4	197	143
AL	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AS	12300	40900	42400	29100	59000	62500	65900	62100	50600	44400	35500	49600
A	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
HA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	53	43	44	61	31
	141	130	274	195	257	257	132	194	150	142	151	253
RE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	3650	6470	11300	17500	3960	4800	556	2940	906	1670	29500	27500
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FF	12900	15200	12300	17200	10900	13700	7620	22600	19300	9520	13700	19300
K	17100	15900	16200	17500	38300	59400	76300	64800	65500	58300	45400	55400
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	148	247	973	1380	< 20	< 20	< 20	< 20	< 20	134	< 20	< 20
MG	5300	6750	3070	4330	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
MN	106	122	201	505	153	292	99	199	95	142	240	772
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	107
NA	< 100	< 100	15500	10500	23700	26900	12810	8990	2120	3160	314	4660
NR	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	8800	3450
PR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	< 100	514	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	250000	315000	198000	198000	283000	293000	301000	283000	253000	298000	271000	291000
SH	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	35	51	110	105	64	59	23	54	43	64	231	295
TI	1070	1830	1450	2620	1400	1580	1070	1150	602	894	1330	1570
W	258	< 100	< 100	542	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Y	< 10	< 10	< 10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEQ--674	MEQ--675	MEQ--676	MEQ--677	MEQ--678	MEQ--679	MEQ--680	MEQ--681	MEQ--682	MEQ--683	MEQ--684	MEQ--685
AG	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
AL	32300	36600	28500	27200	29900	28100	28900	21300	27200	27900	29500	29800
AS	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BA	221	284	383	188	190	175	221	158	236	178	279	206
BE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
BI	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
CA	20800	38300	24700	26300	33400	33200	12600	14000	12300	16800	13500	10300
CD	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CC	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CR	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CU	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
FF	16700	19770	13900	17800	16400	21200	20400	9840	15700	14100	6150	6310
K	20400	20500	18800	13300	18300	17800	16100	12200	14700	20700	17200	13200
LA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
LI	1730	5460	1870	1920	2700	1870	1190	651	758	1270	635	175
HG	9000	13200	7180	6360	9830	660	7380	3300	5040	5070	3530	2710
MN	344	370	355	375	482	512	246	201	243	318	174	173
MO	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
NA	9950	12000	9210	6540	7930	7130	7230	6680	7130	10100	9870	9070
NB	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
NI	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
P	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
PR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
SB	< 100	< 100	395	< 100	262	295	644	< 100	< 100	356	< 100	< 100
SC	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
SI	183000	204000	192000	186000	191000	200000	202000	174000	196000	204000	203000	205000
SN	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SR	87	142	146	104	116	121	95	80	77	88	88	76
TI	2350	1670	2590	2270	2650	2710	3120	1830	2380	2190	1600	1470
Y	< 100	114	426	< 100	425	503	406	113	225	368	146	< 100
Z	< 10	< 10	17	< 10	16	24	15	< 10	< 10	12	< 10	< 10
ZN	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
ZR	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40

Sample No.	MEO--686	MEO--701	MEO--702
eltz Or (ppm)	8	205	899
AG	< 10	< 10	< 10
AL	37700	< 35100	18100
AS	< 200	< 200	< 200
B	39	52	< 10
RA	208	150	149
BE	< 10	< 10	< 10
RI	< 50	< 50	< 50
CA	47000	32600	70900
CD	< 10	< 10	< 10
CC	< 10	< 10	< 10
CR	< 10	< 10	< 10
CU	< 10	< 10	< 10
FE	19900	46900	17600
K	41500	39900	21000
LA	< 10	< 10	< 10
LI	> 10000	< 20	< 20
MG	24500	1900	1750
MN	381	273	184
MO	11	24	< 10
NA	4580	8130	16300
NR	< 100	< 100	< 100
NI	< 40	< 40	< 40
P	< 100	9590	31500
PR	< 40	< 40	< 40
SB	< 100	< 100	< 100
SC	< 3	< 3	< 3
SI	277000	238000	214000
SN	< 10	< 10	< 10
SR	171	378	2060
TI	1890	2240	1240
XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
V	< 100	402	531
Y	< 10	62	58
ZN	< 100	< 100	< 100
ZP	< 40	139	195

APPENDIX B-3. URANIUM ANALYSES (SCINTREX UA-3) AND LOCATIONS OF WATER SAMPLES

APPENDIX B-3. URANIUM ANALYSES (SCINTREX UA-3) AND LOCATIONS OF WATER SAMPLES

SAMPLE NO.	LOCATION			GEOLOGIC CODE	U308 (ppb) (acidified)	DATE COLLECTED
	SEC.	TWP. (N)	RNG. (E)			
W-1	23	25	43	Ta ₁	11**	04/14/78
W-2	36	25	51	Qa	4	06/24/78
W-3	11*	25	52	Qa	4	06/24/78
W-4	29	26	38	Qa	6**	04/15/78
W-5	19	26	40	T ₂ k	4/5**	04/14/78
W-6	29*	26	41	Tt ₂	17**/4	04/14/78
W-7	27	26	44	Ov	1**	04/14/78
W-8	11	26	45	Tt ₂	7**	04/14/78
W-9	15	26	45	Qp	3**	04/15/78
W-10	16	26	45	Qa	7**/10	04/15/78
W-11	28	26	45	Qa	10**/10	04/15/78
W-12	22	26	52	Ovi	5	06/24/78
W-13	34	26	52	Ovi	2	06/24/78
W-14	3	27	37	T ₂ lgr	13**	04/15/78
W-15	24	27	37	Ts ₃	3**	04/15/78
W-16	12	27	40	PRh	2**/1	04/14/78
W-17	28	27	40	Qa	3	06/14/78
W-18	2	27	41	Ts ₃	14**/6	04/12/78
W-19	9	27	41	Ts ₃	5	06/10/78
W-20	19	27	41	Tt ₂	3	06/10/78
W-21	4	27	42	Tt ₂	59	06/10/78
W-22	8	27	42	Ts ₃	2	06/10/78
W-23	23	27	43	Qa	2**	04/14/78
W-24	13	27	44	Tt ₂	3	04/15/78
W-25	15	27	44	Qa	9**	04/14/78
W-26	16	27	45	Ts ₃	5	04/16/78
W-27	18*	27	45	Tt ₂	2	04/15/78
W-28	27	27	45	Qa	8	04/15/78
W-29	33	27	47	Tt ₂	52**/95/54	04/14/78
W-30	10	28	37	PRh	10	06/06/78
W-31	12	28	37	PRh	5	06/08/78
W-32	3	28	40	PRh	2**	04/15/78
W-33	32	28	40	Qa	3	06/15/78
W-34	34	28	41	Ts ₃	4**/5	04/12/78
W-35	34	28	41	Tt ₂	10	07/22/78
W-36	34	28	41	Ts ₃	2	07/22/78
W-37	34	28	41	Ts ₃	3	07/22/78
W-38	2	28	42	T ₂ c	20**	04/15/78
W-39	15*	28	42	Jgr	25**	04/15/78
W-40	23	28	42	Jgr	10	06/12/78
W-41	7	28	44	Ov	1**	04/13/78
W-42	27	28	44	Tt ₂	16	04/15/78
W-43	1	29	36	Qa	3	06/07/78
W-44	27	29	37	Qa	5	06/08/78
W-45	28	29	40	PRh	2	06/14/78

SAMPLE NO.	LOCATION			GEOLOGIC CODE	U308 (ppb) (acidified)	DATE COLLECTED
	SEC.	TWP. (N)	RNG. (E)			
W-46	19	29	41	Qa	3	06/13/78
W-47	23	29	41	Qa	1**	04/15/78
W-48	28	29	42	Tt ₂	47	08/19/78
W-49	33	29	42	Tt ₂	47	09/19/78
W-50	3	29	52	QTs	2	07/04/78
W-51	34	29	52	QTs	2	07/08/78
W-52	6	29	53	MDs	5	07/04/78
W-53	23	30	40	Qa	2	06/14/78
W-54	24	30	42	Qa	10	06/13/78
W-55	12	30	52	MDs	9	07/08/78
W-56	21	30	53	MDs	3	07/04/78
W-57	30	30	53	Dw	4	07/04/78
W-58	13	31	37	Ov	14	06/21/78
W-59	26	31	37	Qa	4	06/21/78
W-60	27	31	37	Ov	5	06/21/78
W-61	9	31	38	Qa	1	06/21/78
W-62	33	31	39	Qa	3	06/22/78
W-63	23	31	47	Qa	2	07/25/78
W-64	17	31	48	Tba	3**/3	04/14/78
W-65	17	31	48	Tba	3	06/20/78
W-66	17	31	48	Tba	2	07/25/78
W-67	6	31	52	MDs	3	07/06/78
W-68	23	31	52	QTs	1	07/08/78
W-69	20	31	53	QTs	4	07/08/78
W-70	28	31	53	MDs	2	07/08/78
W-71	36	32	38	Qa	3	06/21/78
W-72	11	32	51	Tr ₃	2	07/06/78
W-73	17	32	51	Ovi	14	07/06/78
W-74	34	32	51	Jv	7	06/23/78
W-75	12	32	52	MDs	3	06/20/78
W-76	14	32	52	MDs	3	06/20/78
W-77	25	32	52	Dw	1	06/20/78
W-78	17	32	53	MDs	3	06/20/78
W-79	17	32	53	MDs	2	06/20/78
W-80	21	32	53	MDs	2	06/20/78
W-81	1	33	38	Ov	5	07/24/78
W-82	17	33	39	eh	3	07/24/78
W-83	30	33	39	PRh	5	07/24/78
W-84	31	33	39	Jgr	37	07/24/78
W-85	11	33	46	Tb	2	06/11/78
W-86	15	33	46	Tba	2	06/11/78
W-87	20	33	46	Tba	2	06/11/78
W-88	28	33	52	Ts ₃	4	07/06/78
W-89	33	33	52	Qa	2	06/20/78
W-90	2	34	35	Qa	1	08/08/78

SAMPLE NO.	LOCATION			GEOLOGIC CODE	U308 (ppb) (acidified)	DATE COLLECTED
	SEC.	TWP. (N)	RNG. (E)			
W-91	24	34	38	MDs	5	07/23/78
W-92	27	34	38	eh	5	07/23/78
W-93	10	34	39	Tt ₃	2	08/08/78
W-94	24	34	39	Ov	3	08/08/78
W-95	14	34	40	Kgr	26**/24	04/15/78
W-96	20	34	40	Qa	5	08/08/78
W-97	20	34	40	et	14	08/08/78
W-98	13	34	41	Qa	3	06/17/78
W-99	1	34	42	Ov	2	06/17/78
W-100	12	34	42	Ov	2	06/17/78
W-101	28	34	46	Tba	3	06/11/78
W-102	1	35	38	Ov	3	08/04/78
W-103	3	35	38	Qa	3	08/04/78
W-104	12	35	38	Ov	3	08/04/78
W-105	34	35	38	eh	3	07/23/78
W-106	11	35	39	Tt ₃	2	08/03/78
W-107	22	35	39	Tt ₃	2	08/06/78
W-108	34	35	39	Tt ₃	2	08/08/78
W-109	34	35	39	Tt ₃	4	08/08/78
W-110	1	35	40	Qa	8	06/09/78
W-111	13	36	37	KJd	11	08/10/78
W-112	25	36	38	Qa	7	08/04/78
W-113	27	36	39	Tt ₃	3	08/06/78
W-114	29	36	39	Tt ₃	1	08/04/78
W-115	32	36	39	Tt ₃	11	08/04/78
W-116	34	36	39	Tt ₃	2	08/06/78
W-117	29	36	40	Qa	1	06/09/78
W-118	32	36	40	Qa	2	06/09/78
W-119	32	36	40	Qa	3	08/03/78
W-120	36	36	40	Qa	33	06/09/78
W-121	17	36	45	Tr ₃	1	06/19/78
W-122	36	36	45	QToa	2	06/13/78

*UNSURVEYED

**UNACIDIFIED

APPENDIX B-4. FULL RAPID-ROCK DATA AND PERALKALINE INDICES
(all quantities given in %)

APPENDIX B-4. FULL RAPID-ROCK DATA AND PERALKALINE INDICES
(all quantities given in %)

SAMPLE #	SiO ₂	Al ₂ O ₃	TiO ₂	MnO	MgO	Na ₂ O	K ₂ O	CaO	P ₂ O ₅	S	FeO	Fe ₂ O ₃	LOI	Peralkaline Index
														mol. % $\frac{K_2O + Na_2O}{Al_2O_3}$
MAO-284	71.03	14.95	.33	.05	.63	4.31	3.97	1.92	.07	<.01	1.38	.23	1.23	.76
MAO-360	64.89	17.02	.64	.07	1.95	4.17	2.26	4.12	.26	<.01	1.96	.84	.93	.55
MEQ-028	59.21	19.52	.76	.11	1.69	6.08	3.91	4.54	.40	<.01	2.36	2.72	.90	.73
MEQ-080	70.72	13.90	.94	.04	1.61	4.09	2.32	4.90	.22	<.01	1.35	.72	1.45	.66
MEQ-117	66.38	15.41	.59	.07	2.37	3.35	4.03	3.26	.16	<.01	3.20	.71	.54	.64
MEQ-283	64.77	14.39	.73	.07	2.54	2.94	4.40	3.62	.46	<.01	2.44	1.43	.80	.67

WINNEMUCCA

APPENDIX B-5. WHOLE-ROCK DATA AND PERALKALINE INDICES

APPENDIX B-5. WHOLE-ROCK DATA AND PERALKALINE INDICES

Sample #	SiO ₂ (%)	Al ₂ O ₃ (%)	TiO ₂ (%)	MnO (%)	MgO (%)	Na ₂ O (%)	K ₂ O (%)	CaO (%)	CO ₂ (%)	P ₂ O ₅ (%)	S (%)	FeO (%)	Fe ₂ O ₃ (%)	ZrO ₂ (ppm)	F (ppm)	Be (ppm)	Mo (ppm)	Cr ₂ O ₃ (ppm)	LOI (%)	Peralkaline Index	
																				mol. %	$\frac{K_2O + Na_2O}{Al_2O_3}$
MAO-052	74.55	14.22	0.23	0.03	0.14	3.01	7.07	0.71	0.2	0.05	<0.01	0.26	0.59	224	< 200	2	5	9	0.79	0.89	
MAO-101	76.68	13.55	.14	.03	.19	3.55	5.19	1.70	.5	.03	.01	.20	1.10	120	< 200	2	5	9	1.41	.85	
MAO-102	77.91	13.20	.06	.06	.22	3.35	4.15	.92	< .1	.04	.02	.03	.84	55	555	5	5	6	2.33	.76	
MAO-103	71.31	15.19	.30	.05	.39	3.14	5.07	1.77	< .1	.08	< .01	1.27	.76	215	394	2	6	7	2.96	.70	
MAO-202	73.64	15.40	.30	.04	.11	1.09	5.31	.42	1.0	.09	.02	.29	1.50	219	< 200	2	5	16	3.05	.49	
MAO-205	75.57	13.86	.14	.03	.11	3.69	4.76	.68	.1	.02	< .01	.29	.61	135	245	2	4	13	.68	.81	
MAO-207	74.39	13.50	.23	.02	.07	3.28	4.95	.62	< .1	.04	< .01	.40	2.01	258	292	2	6	7	.57	.80	
MAO-276	75.27	13.47	.20	.02	.08	3.62	5.07	.72	< .1	.04	.03	.23	1.19	234	487	2	5	9	.42	.85	
MAO-277	75.21	14.95	.30	.01	.10	3.62	5.56	.79	< .1	.06	< .01	.26	.24	267	458	2	5	9	.80	.80	
MAO-280	76.12	15.74	.11	.01	.04	.11	.15	.11	< .1	.04	.02	.17	1.32	105	781	2	6	10	5.87	.02	
MAO-282	75.86	13.57	.14	.01	.13	2.94	4.70	.82	.2	.21	.10	.23	.24	151	579	2	3	6	1.97	.73	
MAO-356	73.70	17.37	.30	.02	.31	2.67	4.89	1.70	< .1	.06	< .01	.32	1.10	239	830	2	5	9	2.05	.56	
MAO-357	74.58	16.00	.30	.03	.28	3.21	5.01	2.27	.3	.10	< .01	.52	.94	201	925	2	5	10	1.49	.67	
MAO-361	75.78	14.72	.17	.04	.19	4.10	5.19	.71	.4	.05	< .01	.17	2.06	340	< 200	2	5	7	1.11	.84	
MAG-702	69.68	15.30	.26	.05	.33	2.73	4.89	1.92	.4	.03	< .01	.49	1.63	150	404	2	5	18	2.04	.64	
MAG-704	75.85	11.34	.21	.03	.12	3.62	4.21	1.06	< .1	.35	< .01	.17	2.06	216	435	2	6	10	1.48	.93	
MEQ-015	72.59	13.67	.39	.04	.22	1.68	5.80	1.21	< .1	.06	< .01	1.07	1.20	312	1290	4	5	10	2.62	.66	
MEQ-011	74.76	12.87	.17	.08	.11	3.79	4.66	.58	.1	.02	.04	.32	1.65	401	497	3	6	10	1.10	.86	
MEQ-016	72.16	14.43	.19	.02	.32	2.84	4.84	1.42	< .1	< .01	< .01	.40	.96	166	898	2	2	7	1.77	.69	
MEQ-054	70.16	13.40	.26	.03	.13	2.24	5.54	.99	< .1	< .01	< .01	.92	.45	258	1519	4	4	6	3.66	.72	
MEQ-056	73.12	13.47	.26	.06	.17	2.49	5.23	.82	< .1	.06	< .01	1.07	1.37	159	1561	4	4	18	.88	.72	
MEQ-082	74.76	14.39	.35	.05	.48	3.27	4.00	1.55	.1	.03	.10	1.28	.52	171	504	2	4	15	.45	.67	
MEQ-085	69.49	15.06	.38	.06	.47	5.67	4.15	1.88	1.2	.09	< .01	2.07	.99	198	840	2	6	19	.84	.92	
MEQ-086	67.36	13.88	.08	.08	.54	2.92	4.69	2.41	1.0	< .01	< .01	.69	.79	96	1020	4	6	12	4.54	.71	
MEQ-089	71.03	13.84	.07	.07	.44	3.28	4.69	.78	1.0	< .01	.01	1.07	.61	66	961	6	6	18	3.27	.76	
MEQ-097	76.71	13.74	.08	.04	.13	3.28	4.54	.83	1.0	< .01	< .01	1.50	.62	814	632	3	6	18	.62	.75	
MEQ-098	68.46	16.25	.51	.06	.82	3.53	3.77	2.68	1.0	.15	< .01	2.02	1.40	258	1799	2	6	20	1.76	.61	
MEQ-100	70.60	15.68	.48	.05	.68	3.28	4.08	2.14	1.0	.09	< .01	2.05	1.01	242	487	2	6	22	.80	.63	
MEQ-101	74.76	14.22	.26	.01	.06	3.55	5.30	.71	< .1	.62	< .01	.20	.37	228	229	2	5	7	.99	.81	
MEQ-108	69.76	15.87	.50	.04	.65	3.44	4.00	2.23	< .1	.16	< .01	1.21	1.84	227	533	2	4	10	1.03	.63	
MEQ-118	72.68	15.42	.40	.06	.67	2.67	4.09	1.70	< .1	.09	< .01	1.21	2.29	217	1240	9	7	34	5.15	.57	
MEQ-119	76.41	13.86	.22	.02	.07	3.55	5.07	.78	< .1	.04	< .01	1.41	2.13	219	318	4	8	29	.83	.82	
MEQ-125	70.21	15.14	.42	.05	.66	3.18	4.23	2.14	1.8	.19	< .01	2.33	.70	228	612	2	6	23	.34	.65	
MEQ-128	69.67	14.66	.29	.03	.17	2.84	4.84	1.79	2.0	.14	.02	1.93	1.36	260	< 200	2	8	36	.96	.68	
MEQ-160	75.21	14.02	.28	.01	.09	3.14	4.95	.78	< .1	.02	.02	.17	3.52	248	600	3	6	7	.75	.75	
MEQ-161	77.21	11.81	.22	.01	.18	2.46	4.46	.78	< .1	.02	< .01	.17	.80	186	722	3	2	12	.75	.75	
MEQ-175	71.99	13.81	.30	.02	.21	1.04	4.76	.45	.07	.06	.04	.27	1.80	193	443	2	4	13	2.97	.50	