



**Certificate of Analysis**  
**Work Order : VC162164**  
**[Report File No.: 0000018101]**

Date: July 25, 2016

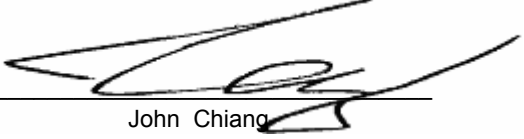
To: **Gordon Richards**  
**GORDON RICHARDS**  
6410 HOLLY PARK DR  
DELTA BC V4K 4W6

P.O. No.: CROOKED\_C173-C267  
Project No.: -  
Samples: 84  
Received: Jul 7, 2016  
Pages: Page 1 to 22  
(Inclusive of Cover Sheet)

**Methods Summary**

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
84	G_LOG02	Pre-preparation processing, sorting, logging, boxing
84	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Certified By : \_\_\_\_\_

  
John Chiang  
QC Chemist

*SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>*

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
C173	20.7	175	30	1.0	9770	<0.5	76	<1
C174	26.6	137	<10	0.2	22600	<0.5	275	<1
C175	31.1	89	<10	0.5	21800	<0.5	294	2
C176	22.7	217	30	<0.1	10900	0.8	99	2
C177	30.7	228	50	0.4	9910	0.7	67	2
C178	16.4	148	30	0.2	14400	<0.5	214	<1
T150	20.5	132	10	0.2	11300	<0.5	193	13
T151	19.2	107	<10	<0.1	5320	<0.5	235	15
T152	9.8	60	<10	<0.1	6590	<0.5	139	19
T153	15.3	129	20	0.2	14900	<0.5	202	7
T154	13.2	291	60	0.2	5570	2.2	51	4
T155	37.9	196	20	0.4	11200	<0.5	113	2
T157	54.8	223	50	0.2	11800	1.3	127	5
T158	102	164	30	0.4	20900	<0.5	261	9
T159	17.9	167	30	0.4	17600	0.5	149	5
T160	13.3	193	40	0.2	13200	1.4	100	3
T161	41.6	247	70	<0.1	8710	1.2	19	5
T163	13.2	119	10	0.1	13300	0.6	248	29
T165	17.5	190	40	<0.1	4420	0.8	31	9
T169	6.8	130	40	0.2	8030	0.7	172	3
T170	24.4	43	30	0.3	11400	<0.5	275	6
T171	31.9	261	20	0.3	4270	<0.5	19	2
T172	15.3	64	<10	0.2	6660	<0.5	493	29
T173	12.9	185	10	0.1	6930	<0.5	172	2
T174	13.4	109	30	0.2	7990	0.5	229	3
T175	34.2	61	30	0.8	7790	<0.5	358	34
T177	6.7	46	10	0.2	5690	<0.5	306	4
T179	3.5	98	40	0.2	11200	0.9	94	12
T180	22.5	26	20	1.1	14600	<0.5	242	3
T181	14.1	34	<10	0.7	13300	<0.5	383	3
T183	50.3	18	<10	0.5	8530	<0.5	398	28
T184	75.1	6	<10	0.4	1360	<0.5	425	34
T185	34.4	14	<10	0.4	2720	<0.5	509	5
T188	22.2	23	<10	0.8	3550	<0.5	538	5
T192	6.4	155	40	<0.1	5350	<0.5	159	76
T194	10.7	50	30	0.2	14700	<0.5	224	10
T195	7.3	44	10	0.4	14300	<0.5	365	3
T196	46.5	36	<10	0.7	14600	<0.5	422	8
T197	56.0	10	<10	<0.1	10500	<0.5	317	55
T198	25.6	35	<10	0.4	11700	<0.5	440	17

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
T201	2.0	141	30	0.2	7560	0.6	108	7
T206	2.4	85	20	<0.1	5120	<0.5	156	9
T212	12.4	55	20	0.4	11400	<0.5	255	6
T214	58.4	57	<10	0.8	17400	<0.5	599	6
T215	19.4	293	80	0.4	8530	0.6	49	9
T216	18.1	236	60	1.2	6900	0.6	159	4
T217	25.7	12	<10	0.4	15400	<0.5	542	7
T218	8.0	240	20	0.1	8560	0.7	142	8
T219	25.5	181	70	0.1	11800	0.9	147	6
T220	7.8	214	30	0.4	9020	<0.5	178	6
T221	5.3	136	20	0.5	20000	<0.5	282	3
T222	18.7	299	20	0.1	3060	<0.5	32	2
T223	5.7	249	10	<0.1	3810	<0.5	207	11
T224	7.5	168	20	0.2	9500	<0.5	197	4
T225	11.7	216	10	0.2	9480	<0.5	153	6
T226	13.0	243	10	0.1	5370	<0.5	159	8
T227	7.2	183	20	0.2	8310	<0.5	248	5
T229	3.0	93	20	0.1	12900	<0.5	270	4
T230	12.4	173	20	0.2	6610	<0.5	186	4
T231	11.2	139	10	0.2	7580	<0.5	286	2
T232	12.6	244	10	<0.1	10000	0.6	93	19
T233	41.2	215	40	0.2	9930	0.6	132	6
T234	19.3	172	30	<0.1	11800	<0.5	213	5
T235	17.8	103	<10	0.2	11100	<0.5	292	3
T236	11.8	41	<10	0.4	7920	<0.5	627	5
T237	20.0	266	60	0.4	5330	0.8	56	12
T238	12.4	170	30	0.3	13700	<0.5	173	8
T239	19.7	298	20	<0.1	5520	0.6	29	29
T250	5.9	171	20	0.1	5470	<0.5	43	5
T251	21.4	87	20	0.3	12000	<0.5	195	13
T254	14.6	108	40	0.2	13100	0.8	203	21
T255	18.2	216	20	0.1	5100	<0.5	43	23
T256	37.7	59	10	0.2	18200	<0.5	334	28
T257	13.8	259	60	1.2	6580	0.7	14	12
T258	10.8	251	10	0.1	2900	<0.5	87	3
T259	9.7	305	<10	0.2	2980	<0.5	79	4
T260	22.2	139	<10	0.2	19100	<0.5	379	2
T261	6.4	72	<10	0.4	18800	<0.5	338	2
T262	17.0	76	<10	0.3	8160	<0.5	589	24
T263	20.7	305	30	0.2	8850	<0.5	34	4

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	10	0.1	10	0.5	2	1
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb
T264	11.5	114	50	0.6	11900	1.2	169	3
T265	41.4	200	30	0.1	16500	0.5	174	7
T266	10.4	175	20	<0.1	14900	<0.5	160	1
T267	27.3	222	60	0.2	11200	1.1	90	3

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
C173	3560	244	<100	0.2	680	719	374	176
C174	943	198	<100	0.4	230	145	63.6	31.8
C175	1230	100	<100	0.2	330	146	60.2	42.6
C176	201	60	<100	2.6	170	18.1	7.6	5.0
C177	307	52	100	1.7	360	37.2	15.7	10.6
C178	200	89	<100	0.9	200	30.8	14.0	8.1
T150	398	200	<100	0.6	1290	100	48.6	21.6
T151	187	94	<100	0.3	750	82.4	50.2	14.5
T152	36	327	<100	0.2	1630	16.5	11.1	3.0
T153	1040	80	<100	0.5	330	113	50.6	30.8
T154	276	51	200	3.5	470	39.6	17.0	10.3
T155	4660	54	<100	<0.2	760	753	358	180
T157	532	89	<100	1.8	380	53.2	24.6	13.3
T158	2790	741	100	0.5	1500	485	236	117
T159	1560	123	<100	1.0	680	143	56.6	39.3
T160	995	83	200	1.9	620	65.8	22.9	17.4
T161	231	56	100	1.8	110	16.7	7.7	5.5
T163	425	49	100	1.0	1670	86.2	47.5	21.4
T165	191	51	<100	3.9	140	14.7	5.9	4.5
T169	215	42	<100	1.3	400	28.7	13.4	8.9
T170	200	51	<100	1.6	670	22.3	11.7	7.0
T171	273	66	<100	1.4	200	32.6	13.1	9.7
T172	141	243	<100	1.0	670	17.9	9.9	5.2
T173	112	50	<100	1.0	150	19.6	10.5	5.6
T174	306	60	<100	1.7	190	18.8	8.5	5.7
T175	199	462	<100	0.4	5560	60.4	36.0	13.9
T177	50	20	<100	0.4	240	6.8	3.2	2.2
T179	962	135	<100	1.6	550	70.5	32.0	20.4
T180	285	17	<100	0.9	1110	59.2	28.9	18.0
T181	401	248	<100	0.5	1030	61.3	29.8	19.3
T183	270	130	<100	0.5	2360	32.0	14.8	9.5
T184	45	58	<100	0.2	1390	10.0	4.6	2.5
T185	84	38	<100	<0.2	1610	17.4	8.2	5.4
T188	92	345	<100	<0.2	4830	17.2	8.8	5.4
T192	69	71	<100	0.9	130	9.1	3.9	2.8
T194	457	255	<100	0.4	1110	53.1	25.0	14.8
T195	224	111	<100	0.2	470	31.3	12.2	10.8
T196	255	41	<100	0.6	2280	60.3	29.4	18.5
T197	78	255	<100	<0.2	1530	11.2	6.3	3.7
T198	323	408	<100	<0.2	3800	46.0	25.7	13.9

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
T201	826	346	<100	0.4	250	76.3	35.8	22.5
T206	61	200	100	2.0	130	5.3	2.4	2.0
T212	177	54	<100	1.3	630	26.8	13.0	8.7
T214	308	124	<100	0.3	1780	48.2	26.1	14.7
T215	94	166	<100	2.9	220	21.3	10.9	4.4
T216	130	67	<100	1.3	300	31.3	16.4	7.3
T217	53	270	<100	0.3	1790	16.1	9.3	5.5
T218	97	124	<100	0.8	210	22.1	13.6	5.2
T219	224	247	100	0.9	260	22.0	10.5	7.0
T220	409	132	<100	0.8	400	62.2	29.6	14.3
T221	1770	148	<100	<0.2	480	282	132	78.5
T222	73	107	<100	1.5	270	14.7	7.5	3.2
T223	85	359	<100	0.6	200	33.7	22.4	5.2
T224	681	75	<100	0.5	300	68.7	27.4	18.2
T225	354	147	<100	0.4	280	64.8	29.5	16.1
T226	249	226	<100	0.9	520	85.6	45.6	15.4
T227	226	126	<100	0.6	310	43.6	22.5	11.2
T229	169	128	<100	0.4	190	15.3	6.9	5.3
T230	614	84	<100	0.9	330	71.8	34.0	20.2
T231	252	24	<100	0.6	230	40.6	20.1	10.8
T232	140	92	<100	0.5	300	42.3	25.2	8.0
T233	289	248	100	0.9	290	38.9	17.3	10.5
T234	210	153	<100	0.8	330	34.8	17.7	9.2
T235	101	40	<100	<0.2	220	16.9	7.9	4.9
T236	366	86	<100	<0.2	460	97.8	50.5	25.1
T237	94	142	<100	2.6	1130	59.3	31.8	6.6
T238	950	154	<100	0.7	330	101	46.4	28.5
T239	109	514	<100	2.2	310	35.3	20.6	5.3
T250	767	84	<100	2.8	400	72.5	34.0	23.8
T251	414	57	<100	1.6	520	35.2	14.3	11.1
T254	925	257	<100	0.8	640	99.2	47.9	28.7
T255	338	88	100	3.6	380	21.7	7.1	6.4
T256	315	17	<100	0.4	2400	69.9	39.2	20.3
T257	206	265	200	3.2	260	17.5	7.3	6.0
T258	325	160	<100	1.8	390	36.3	14.9	9.8
T259	184	67	<100	1.5	680	26.1	13.2	7.1
T260	410	55	<100	0.3	300	35.3	13.2	10.3
T261	2900	25	<100	0.7	1450	210	78.5	63.2
T262	78	479	<100	0.4	1440	12.3	6.5	3.6
T263	234	71	<100	1.8	210	35.5	16.1	9.8

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Element	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	2	1	100	0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
T264	1760	123	<100	1.4	1080	192	81.8	51.2
T265	328	70	<100	1.2	340	36.4	17.0	10.9
T266	169	110	<100	1.2	210	16.3	7.3	5.6
T267	489	80	100	2.3	310	40.4	18.2	12.5

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
C173	35	5.2	775	<1	0.1	2.4	1430	<1
C174	14	1.5	145	<1	<0.1	8.7	440	<1
C175	10	2.0	195	<1	<0.1	4.6	461	<1
C176	75	9.1	20.2	<1	0.2	18.5	110	2
C177	80	13.4	37.7	<1	0.1	8.6	166	4
C178	49	5.6	30.9	<1	<0.1	10.3	108	<1
T150	186	2.7	95.1	<1	0.3	3.9	156	4
T151	161	2.3	69.4	<1	0.2	1.0	56	1
T152	305	2.0	11.8	<1	0.1	1.9	15	3
T153	45	6.5	136	<1	<0.1	7.0	515	1
T154	191	14.9	39.5	<1	0.3	14.7	106	14
T155	24	4.9	827	<1	<0.1	6.5	2250	<1
T157	135	17.7	60.3	<1	0.2	9.7	236	9
T158	97	5.0	538	<1	0.1	17.6	941	3
T159	102	8.6	166	<1	0.2	6.5	733	5
T160	129	15.2	73.6	<1	0.3	10.4	513	13
T161	137	24.7	19.8	<1	0.2	22.7	112	13
T163	90	3.9	96.1	<1	0.2	3.9	177	4
T165	92	12.9	17.1	<1	0.1	9.2	90	13
T169	97	6.7	35.4	<1	0.2	5.1	101	5
T170	59	7.9	31.5	<1	<0.1	10.8	79	31
T171	51	10.0	31.9	<1	0.2	10.9	140	5
T172	69	3.9	21.0	<1	<0.1	4.3	52	9
T173	120	6.4	23.2	<1	0.1	6.5	66	6
T174	66	6.5	24.2	<1	<0.1	9.7	188	4
T175	169	1.5	61.4	<1	0.2	4.1	92	3
T177	49	2.3	8.0	<1	<0.1	7.3	19	5
T179	101	7.2	91.1	<1	0.1	7.6	471	12
T180	34	3.3	82.7	<1	<0.1	10.6	157	42
T181	26	2.3	86.5	<1	<0.1	12.0	192	10
T183	13	1.2	43.5	2	<0.1	10.3	53	30
T184	4	<0.5	12.9	4	<0.1	12.8	8	45
T185	14	0.9	24.9	<1	<0.1	4.4	27	12
T188	11	1.2	22.8	<1	<0.1	8.0	42	2
T192	123	9.8	9.7	<1	0.2	34.4	31	9
T194	59	2.8	62.9	<1	<0.1	9.6	166	2
T195	26	1.4	42.4	<1	<0.1	9.8	89	<1
T196	16	1.4	80.6	1	<0.1	7.9	118	8
T197	8	0.9	16.8	1	<0.1	11.9	30	30
T198	68	0.9	55.9	<1	<0.1	9.2	133	4

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
T201	75	7.2	88.9	<1	0.1	8.4	340	2
T206	97	5.7	6.0	<1	<0.1	12.7	25	10
T212	46	1.7	32.0	<1	<0.1	3.7	67	4
T214	52	1.3	59.8	<1	<0.1	1.5	96	2
T215	164	10.6	16.4	<1	0.3	18.5	36	19
T216	116	9.1	28.7	<1	0.2	22.9	72	11
T217	17	0.7	18.9	1	<0.1	7.2	20	5
T218	132	8.3	21.6	<1	0.2	19.1	47	7
T219	145	14.6	26.6	<1	0.2	8.0	98	4
T220	68	8.6	63.6	<1	0.1	9.0	178	2
T221	30	3.7	359	<1	<0.1	7.3	836	<1
T222	68	10.9	12.1	<1	0.2	16.9	35	6
T223	149	6.2	25.4	<1	0.2	16.6	30	7
T224	61	6.6	82.3	<1	0.1	7.7	331	2
T225	74	5.7	68.2	<1	0.2	4.2	156	2
T226	156	9.0	75.7	<1	0.2	6.6	91	6
T227	97	7.1	48.5	<1	<0.1	5.9	98	6
T229	52	3.6	18.1	<1	<0.1	7.8	63	5
T230	56	6.3	85.6	<1	0.1	7.1	262	4
T231	44	5.4	50.6	<1	<0.1	8.4	139	3
T232	110	7.9	35.3	<1	0.2	9.8	41	5
T233	122	9.6	43.0	<1	0.2	9.8	126	7
T234	101	8.1	39.8	<1	0.1	12.3	94	8
T235	29	2.2	19.5	<1	<0.1	9.4	50	<1
T236	19	0.7	121	<1	<0.1	16.0	151	1
T237	205	19.5	34.8	<1	0.2	15.6	32	19
T238	78	7.3	123	<1	0.1	12.2	447	4
T239	159	14.3	22.4	<1	0.2	15.8	38	17
T250	45	6.5	95.5	<1	0.1	5.5	371	3
T251	70	3.4	41.1	<1	<0.1	2.6	189	6
T254	84	6.9	132	<1	<0.1	14.8	416	7
T255	44	5.8	20.9	<1	0.1	17.6	107	2
T256	32	2.0	86.5	<1	<0.1	3.9	118	4
T257	131	12.8	19.7	<1	0.3	18.1	96	9
T258	105	4.6	39.4	<1	0.1	2.9	121	<1
T259	57	3.9	28.3	<1	0.2	3.9	85	<1
T260	18	2.2	40.5	<1	<0.1	4.0	255	<1
T261	20	5.9	307	2	<0.1	8.6	1020	4
T262	32	2.1	13.2	<1	<0.1	4.8	28	3
T263	61	10.9	32.1	<1	0.2	10.9	119	3

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Element	Fe	Ga	Gd	Hg	In	K	La	Li
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	0.5	0.5	1	0.1	0.5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
T264	73	9.4	243	<1	0.1	9.7	738	3
T265	70	9.6	45.1	<1	0.1	10.7	176	3
T266	48	6.8	17.9	<1	0.1	9.8	87	1
T267	100	13.6	48.7	<1	0.2	9.4	264	2

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Element	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	100	2	0.5	1	5	0.1	5
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
C173	24.2	300	<2	2.5	2990	299	0.6	559
C174	64.9	900	<2	<0.5	482	294	0.1	448
C175	70.4	700	<2	<0.5	700	276	0.1	278
C176	6.6	1200	6	5.3	88	115	3.3	662
C177	13.1	400	4	9.9	147	83	1.7	787
C178	53.7	400	3	3.3	103	147	1.3	490
T150	20.8	1300	<2	1.1	288	761	1.0	372
T151	9.9	1800	<2	0.5	146	1580	0.6	315
T152	13.8	16700	4	<0.5	30	1020	0.6	60
T153	35.4	600	3	3.8	599	240	0.7	317
T154	8.3	500	5	4.4	159	165	5.9	412
T155	30.9	300	<2	2.3	3400	233	0.4	668
T157	23.1	1900	7	8.2	257	315	3.6	371
T158	52.2	3900	2	1.5	1750	1100	2.2	257
T159	29.3	800	2	2.9	774	287	1.4	222
T160	14.5	700	6	6.4	356	222	4.3	230
T161	8.2	2700	8	9.4	99	116	11.6	338
T163	44.0	1100	3	1.3	296	1100	1.5	442
T165	3.5	3300	7	5.3	83	99	4.0	326
T169	26.3	3400	5	2.1	144	259	1.4	196
T170	42.1	2600	4	3.0	130	325	0.7	56
T171	6.0	300	<2	3.8	138	108	1.2	612
T172	24.0	28500	20	0.6	85	586	0.3	24
T173	24.7	600	3	1.6	96	127	1.0	304
T174	21.7	1200	5	2.9	139	89	1.3	245
T175	24.8	5600	4	<0.5	184	1940	0.3	209
T177	30.8	400	6	<0.5	32	98	0.5	73
T179	15.9	3600	4	2.4	427	304	1.9	292
T180	61.8	600	4	1.4	306	682	0.5	60
T181	76.6	12600	3	<0.5	327	840	0.4	54
T183	137	6800	10	<0.5	119	1390	0.1	83
T184	116	4000	18	<0.5	24	371	<0.1	48
T185	190	1600	3	<0.5	65	835	0.2	26
T188	136	58000	19	<0.5	85	1440	<0.1	<5
T192	31.7	3500	4	2.0	38	90	5.6	289
T194	50.3	10900	4	0.8	245	274	0.7	71
T195	73.2	1500	<2	<0.5	136	180	0.2	111
T196	89.1	2100	2	<0.5	251	1120	0.2	44
T197	81.5	31300	24	<0.5	48	762	0.1	106
T198	70.4	7000	<2	<0.5	215	1970	0.1	87

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Element	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	100	2	0.5	1	5	0.1	5
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
T201	29.8	1700	4	3.5	409	284	1.4	245
T206	23.0	5000	4	1.7	28	117	2.1	88
T212	21.0	3600	3	<0.5	113	390	0.9	66
T214	36.5	5000	<2	<0.5	186	1750	0.2	68
T215	15.3	4700	2	2.9	50	450	4.6	554
T216	23.4	1000	<2	2.5	91	236	2.2	401
T217	23.1	7800	3	<0.5	43	715	0.1	69
T218	31.1	600	2	2.4	74	204	1.4	581
T219	27.1	3700	13	5.1	107	232	2.5	147
T220	62.2	600	3	3.1	230	298	0.9	261
T221	83.8	1400	<2	1.0	1410	306	0.5	156
T222	7.2	500	<2	2.3	44	172	1.9	468
T223	49.6	11600	<2	1.2	59	292	2.4	383
T224	49.1	500	<2	2.2	336	224	0.7	233
T225	55.9	600	<2	1.1	250	262	0.7	265
T226	52.9	800	<2	1.7	210	393	0.9	287
T227	59.3	900	<2	2.0	156	280	1.2	171
T229	61.0	1900	<2	0.9	73	127	0.7	93
T230	36.3	200	2	1.5	358	186	1.1	187
T231	66.2	700	<2	1.0	182	191	0.7	218
T232	30.2	9200	<2	1.1	94	589	2.4	227
T233	26.2	2200	4	2.5	159	340	3.7	263
T234	49.9	2000	3	2.8	139	485	1.9	276
T235	74.6	300	<2	0.5	64	273	0.4	233
T236	89.2	3400	<2	<0.5	312	322	0.4	46
T237	25.0	1700	5	5.0	66	453	3.4	506
T238	37.0	1400	3	2.6	530	293	1.3	314
T239	13.1	1200	3	2.9	66	397	2.6	445
T250	6.8	4800	3	1.5	375	89	4.2	236
T251	38.5	4600	3	0.6	184	169	1.3	145
T254	49.7	3100	3	2.3	539	452	1.8	404
T255	5.2	3400	2	0.8	91	133	6.5	225
T256	49.2	2000	5	<0.5	263	1590	0.6	95
T257	6.0	7200	10	3.9	97	121	6.3	414
T258	4.3	2400	<2	1.1	153	343	4.0	154
T259	5.8	700	3	1.1	113	291	7.2	121
T260	73.1	<100	<2	<0.5	168	237	0.3	319
T261	62.6	800	2	0.7	1650	200	0.3	66
T262	80.9	34200	5	<0.5	47	788	0.2	47
T263	14.6	700	<2	5.9	130	131	1.8	670

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Element	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	100	2	0.5	1	5	0.1	5
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
T264	43.0	1500	5	4.5	991	346	1.6	586
T265	36.8	400	3	4.2	161	174	1.7	682
T266	30.4	1000	2	3.4	80	121	0.8	501
T267	4.4	500	4	10.4	242	115	1.5	993

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
C173	<1	552	<0.1	36	1.7	786	692	<1
C174	<1	107	<0.1	70	<0.5	230	113	<1
C175	<1	144	<0.1	57	<0.5	148	165	<1
C176	<1	21.4	<0.1	186	1.5	32	19	<1
C177	<1	33.4	<0.1	109	3.2	129	34	1
C178	<1	22.6	<0.1	111	1.4	75	24	<1
T150	<1	56.9	<0.1	54	1.8	94	75	<1
T151	<1	25.5	<0.1	18	1.2	81	48	<1
T152	<1	5.4	<0.1	10	2.9	50	8	<1
T153	<1	135	<0.1	44	2.1	104	114	<1
T154	<1	34.7	<0.1	152	4.3	102	38	<1
T155	<1	686	<0.1	40	1.1	376	711	<1
T157	<1	55.8	<0.1	155	5.0	89	55	1
T158	<1	360	<0.1	55	2.8	479	442	<1
T159	<1	175	<0.1	73	2.9	167	150	<1
T160	<1	94.0	<0.1	98	3.6	110	68	<1
T161	<1	24.6	<0.1	114	2.6	44	20	2
T163	<1	60.2	<0.1	70	2.5	83	77	<1
T165	<1	21.4	<0.1	145	2.4	33	18	<1
T169	<1	29.6	<0.1	86	3.0	50	33	<1
T170	<1	25.8	<0.1	53	2.0	25	30	<1
T171	<1	32.2	<0.1	105	1.7	66	30	<1
T172	<1	17.8	<0.1	31	1.5	37	19	<1
T173	<1	20.2	<0.1	34	1.0	28	21	<1
T174	<1	33.4	<0.1	57	2.0	23	26	<1
T175	<1	35.9	<0.1	28	2.9	91	47	<1
T177	<1	6.5	<0.1	38	1.0	12	8	<1
T179	<1	103	<0.1	57	2.8	66	90	<1
T180	<1	53.9	<0.1	23	2.3	23	71	<1
T181	<1	66.3	<0.1	19	1.1	26	76	<1
T183	<1	21.3	<0.1	14	1.3	14	34	<1
T184	<1	3.7	<0.1	20	0.6	7	7	<1
T185	<1	11.7	<0.1	12	0.7	15	19	<1
T188	<1	15.6	<0.1	8	1.7	15	21	<1
T192	<1	8.4	<0.1	71	1.3	32	9	<1
T194	<1	50.4	<0.1	20	3.0	47	56	<1
T195	<1	29.2	<0.1	24	1.1	24	35	<1
T196	<1	43.7	<0.1	19	1.2	22	64	<1
T197	<1	9.3	<0.1	9	2.1	6	12	<1
T198	<1	45.6	<0.1	9	2.0	40	50	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
T201	<1	91.7	<0.1	52	1.8	83	86	<1
T206	<1	6.4	<0.1	66	1.5	17	6	<1
T212	<1	23.1	<0.1	66	3.9	21	28	<1
T214	<1	35.8	<0.1	14	3.6	49	49	<1
T215	<1	10.4	<0.1	69	5.3	46	12	<1
T216	<1	19.7	<0.1	103	4.4	60	23	<1
T217	<1	7.7	<0.1	10	2.9	15	13	<1
T218	<1	14.5	<0.1	55	2.6	39	18	<1
T219	<1	23.6	<0.1	156	3.5	50	25	<1
T220	<1	49.1	<0.1	83	1.6	76	53	<1
T221	<1	263	<0.1	31	1.1	244	320	<1
T222	<1	9.0	<0.1	118	0.7	41	10	<1
T223	<1	11.1	<0.1	64	0.6	54	17	<1
T224	<1	79.1	<0.1	44	1.1	72	72	<1
T225	<1	50.6	<0.1	39	0.8	73	59	<1
T226	<1	39.5	<0.1	78	0.8	72	57	<1
T227	<1	32.0	<0.1	60	1.7	54	40	<1
T229	<1	16.1	<0.1	44	1.6	27	17	<1
T230	<1	74.5	<0.1	94	1.4	66	81	<1
T231	<1	38.5	<0.1	79	2.0	36	46	<1
T232	<1	16.1	<0.1	95	1.0	72	26	<1
T233	<1	34.6	<0.1	68	2.7	80	37	<1
T234	<1	28.8	<0.1	98	2.1	49	34	<1
T235	<1	13.2	<0.1	37	0.8	18	16	<1
T236	<1	57.9	<0.1	33	<0.5	49	93	<1
T237	<1	12.8	<0.1	79	5.9	106	21	1
T238	<1	115	<0.1	61	2.4	94	111	<1
T239	<1	13.7	<0.1	206	1.7	63	18	<1
T250	<1	80.5	<0.1	119	1.5	120	94	<1
T251	<1	43.1	<0.1	84	2.0	47	40	<1
T254	<1	119	<0.1	27	4.4	86	123	<1
T255	<1	23.5	<0.1	152	1.1	68	21	<1
T256	<1	47.1	<0.1	43	2.0	40	71	<1
T257	<1	23.3	<0.1	195	3.8	53	20	<1
T258	<1	32.4	<0.1	86	0.8	38	35	<1
T259	<1	24.3	<0.1	83	1.6	36	26	<1
T260	<1	38.8	<0.1	46	0.5	44	32	<1
T261	<1	333	<0.1	61	1.2	132	290	<1
T262	<1	9.7	<0.1	26	1.2	29	12	<1
T263	<1	28.5	<0.1	166	2.0	93	28	<1

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Element	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	0.5	0.1	1	0.5	5	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
T264	<1	211	<0.1	130	5.4	240	221	<1
T265	<1	38.4	<0.1	158	1.8	63	37	<1
T266	<1	18.4	<0.1	131	1.4	35	16	<1
T267	<1	55.9	<0.1	150	2.8	84	48	1

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Element Method Det.Lim. Units	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Ti GE_MMI_M	Tl GE_MMI_M	U GE_MMI_M
	10 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb	0.5 ppb
C173	630	<1	115	<10	66.5	1050	0.2	116
C174	2310	<1	22.7	<10	36.9	90	0.1	54.5
C175	2580	<1	25.8	<10	24.3	30	0.2	67.2
C176	660	<1	3.1	<10	77.2	1560	0.3	8.6
C177	540	<1	6.4	<10	128	3600	0.4	33.0
C178	1530	<1	4.9	<10	35.9	1430	0.3	13.8
T150	1230	<1	15.6	<10	43.0	190	0.2	53.0
T151	1580	<1	11.9	<10	21.5	100	0.1	89.5
T152	1070	<1	2.2	<10	15.2	130	<0.1	39.9
T153	1450	<1	19.5	<10	49.3	1510	0.1	25.8
T154	300	<1	6.9	<10	125	1450	0.7	31.1
T155	950	<1	125	<10	60.0	1010	<0.1	58.9
T157	680	<1	9.0	<10	108	2180	0.4	31.5
T158	1830	<1	80.8	<10	104	540	0.2	127
T159	980	<1	26.3	<10	96.8	1040	0.3	62.8
T160	540	<1	11.7	<10	114	1850	0.3	53.7
T161	110	<1	2.9	<10	39.8	2830	0.3	6.9
T163	1080	<1	14.3	<10	52.0	200	0.5	120
T165	140	<1	2.6	<10	36.4	1040	0.3	6.7
T169	910	<1	5.3	<10	54.4	670	0.3	23.2
T170	1490	<1	4.1	<10	62.7	710	0.3	19.9
T171	180	<1	5.0	<10	89.0	1510	0.3	12.0
T172	2370	<1	2.9	<10	21.6	230	0.2	300
T173	810	<1	3.1	<10	23.9	550	0.1	11.4
T174	990	<1	3.4	<10	60.8	730	0.2	21.4
T175	1600	<1	9.3	<10	28.8	80	0.2	484
T177	1110	<1	1.2	<10	36.3	150	<0.1	12.9
T179	510	<1	13.1	<10	102	520	0.3	19.2
T180	1700	<1	10.5	<10	111	320	0.1	32.6
T181	2480	<1	10.8	<10	105	110	<0.1	108
T183	2260	<1	5.5	<10	64.1	100	<0.1	84.0
T184	1280	<1	1.6	<10	11.6	<10	0.1	41.9
T185	1360	<1	3.1	<10	24.2	50	<0.1	58.3
T188	2150	<1	2.9	<10	29.2	<10	<0.1	214
T192	480	<1	1.6	<10	18.9	570	0.2	11.7
T194	1220	<1	9.4	<10	71.4	270	0.1	77.4
T195	1910	<1	5.5	<10	59.4	100	<0.1	48.8
T196	1980	<1	10.7	<10	74.3	90	0.1	44.9
T197	1730	<1	2.2	<10	21.8	20	<0.1	22.3
T198	2050	<1	7.6	<10	44.1	10	<0.1	165

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
T201	1090	<1	13.2	<10	80.2	1400	<0.1	22.6
T206	590	<1	0.9	<10	24.6	620	0.1	6.6
T212	1030	<1	4.4	<10	49.6	100	0.3	24.5
T214	2770	<1	7.9	<10	18.1	60	<0.1	132
T215	620	<1	3.0	<10	40.0	870	0.2	15.3
T216	730	<1	4.9	<10	39.8	910	0.1	24.4
T217	1610	<1	2.7	<10	61.2	<10	<0.1	24.8
T218	740	<1	3.5	<10	41.3	920	0.1	8.4
T219	530	<1	3.9	<10	43.9	2490	0.1	11.2
T220	1190	<1	10.0	<10	44.0	1600	0.3	19.0
T221	1850	<1	49.6	<10	42.2	610	<0.1	41.5
T222	270	<1	2.2	<10	23.9	980	0.3	5.7
T223	970	<1	4.8	<10	20.7	490	<0.1	20.6
T224	1050	<1	11.5	<10	43.2	1080	0.2	17.4
T225	1050	<1	10.2	<10	36.1	600	0.1	19.1
T226	1030	<1	13.1	<10	27.3	960	0.2	22.0
T227	1330	<1	7.1	<10	26.6	1050	0.1	11.8
T229	1130	<1	2.6	<10	27.2	610	<0.1	11.1
T230	810	<1	12.4	<10	45.4	740	0.3	24.8
T231	1360	<1	7.0	<10	27.6	530	0.2	15.3
T232	1060	<1	6.3	<10	31.9	470	0.1	9.6
T233	720	<1	6.6	<10	54.3	1170	0.3	16.4
T234	1260	<1	5.7	<10	34.2	1310	0.2	11.2
T235	1890	<1	2.8	<10	18.7	260	<0.1	6.9
T236	2290	<1	16.6	<10	36.8	<10	<0.1	44.5
T237	610	<1	7.4	<10	59.0	1780	0.4	26.1
T238	1040	<1	17.7	<10	62.2	1050	<0.1	33.4
T239	380	<1	4.8	<10	24.5	990	0.4	11.4
T250	210	<1	12.5	<10	85.0	590	0.4	30.9
T251	1000	<1	6.4	<10	48.5	280	0.6	15.6
T254	1180	<1	18.5	<10	96.6	690	0.1	26.0
T255	190	<1	3.7	<10	81.2	350	0.4	23.4
T256	1700	<1	12.2	<10	74.3	140	0.2	67.7
T257	100	<1	2.9	<10	53.9	1300	0.3	13.3
T258	370	<1	6.4	<10	28.6	250	0.4	21.3
T259	230	<1	4.3	<10	39.4	240	0.6	16.4
T260	2630	<1	6.3	<10	30.8	260	0.1	16.5
T261	2460	<1	39.2	<10	37.8	400	0.3	82.6
T262	2970	<1	2.0	<10	19.2	80	<0.1	54.7
T263	350	<1	5.7	<10	63.5	2640	0.4	13.8

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	10	1	0.1	10	0.5	10	0.1	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
T264	990	<1	35.3	<10	163	1570	0.4	46.1
T265	1220	<1	6.3	<10	67.6	1710	0.2	15.5
T266	1230	<1	2.7	<10	56.6	1450	0.2	6.7
T267	960	<1	7.0	<10	94.1	3960	0.4	12.9

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
C173	1.7	4060	262	30	58
C174	<0.5	904	38.7	20	45
C175	<0.5	841	32.0	20	33
C176	0.8	92	4.4	70	79
C177	1.5	176	10.0	50	129
C178	0.6	178	8.2	40	72
T150	<0.5	579	32.1	270	67
T151	<0.5	519	34.5	50	39
T152	<0.5	106	9.9	210	30
T153	0.6	708	26.4	130	64
T154	0.7	150	9.9	250	202
T155	1.2	4480	202	20	53
T157	1.9	291	16.2	150	150
T158	1.0	2550	171	150	140
T159	<0.5	831	27.0	100	124
T160	1.5	309	12.8	170	173
T161	1.6	89	5.1	120	87
T163	<0.5	520	33.1	410	94
T165	0.6	65	4.3	300	66
T169	<0.5	142	8.5	120	96
T170	0.6	120	10.2	230	63
T171	<0.5	147	8.7	50	110
T172	<0.5	120	9.3	130	32
T173	<0.5	128	8.2	260	41
T174	<0.5	93	6.0	90	72
T175	<0.5	411	29.0	130	67
T177	<0.5	29	2.4	60	30
T179	0.8	338	22.1	280	117
T180	<0.5	324	20.3	160	63
T181	<0.5	352	20.9	60	45
T183	<0.5	173	10.4	130	29
T184	<0.5	56	3.2	70	10
T185	<0.5	106	6.3	30	17
T188	<0.5	109	7.2	<10	28
T192	<0.5	38	3.0	560	45
T194	<0.5	272	16.6	100	85
T195	<0.5	146	7.9	30	32
T196	<0.5	337	19.6	60	48
T197	<0.5	69	4.7	160	12
T198	<0.5	298	21.4	120	47

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
T201	0.6	372	25.3	60	89
T206	<0.5	25	2.0	690	45
T212	<0.5	143	10.7	200	55
T214	<0.5	295	21.1	40	40
T215	<0.5	109	7.9	530	62
T216	<0.5	178	12.1	100	68
T217	<0.5	105	8.3	80	35
T218	<0.5	139	10.6	70	49
T219	1.4	117	7.2	70	81
T220	0.6	337	20.5	50	67
T221	0.5	1810	68.0	40	57
T222	<0.5	75	4.8	60	59
T223	<0.5	211	16.3	310	20
T224	0.5	364	15.1	40	49
T225	<0.5	367	19.2	30	39
T226	<0.5	540	30.3	130	36
T227	<0.5	274	16.1	100	44
T229	<0.5	71	5.0	40	41
T230	<0.5	385	22.9	30	63
T231	<0.5	232	14.4	30	40
T232	<0.5	279	19.4	60	38
T233	0.6	203	11.8	70	71
T234	0.6	191	13.3	70	47
T235	<0.5	99	5.4	10	16
T236	<0.5	547	37.0	30	23
T237	1.2	324	22.4	120	90
T238	0.5	569	28.4	60	76
T239	<0.5	172	15.0	150	36
T250	<0.5	345	23.4	110	122
T251	<0.5	154	8.8	620	51
T254	0.9	538	31.2	350	89
T255	<0.5	71	4.6	170	95
T256	<0.5	417	28.9	530	107
T257	1.3	79	5.3	240	102
T258	<0.5	161	7.6	20	53
T259	<0.5	138	9.1	20	73
T260	<0.5	217	6.7	20	39
T261	<0.5	1270	35.5	50	90
T262	<0.5	71	5.1	370	26
T263	0.8	187	10.6	80	106

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
T264	1.8	946	49.1	130	166
T265	<0.5	221	10.9	50	79
T266	<0.5	87	5.0	30	70
T267	1.6	221	12.0	60	85

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