



Certificate of Analysis
Work Order : VC162163
[Report File No.: 0000018051]

Date: July 21, 2016

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

P.O. No.: CROOKED_C1-C172
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
n.a. = Not applicable

I.S. = Insufficient Sample
-- = 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	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
C1	19.8	238	30	0.2	8500	0.7	33	9
C2	16.0	85	20	0.2	12200	<0.5	9	2
C5	3.6	135	40	<0.1	10500	<0.5	71	3
C6	72.1	227	50	<0.1	8090	0.9	166	9
C7	22.6	157	20	0.1	19200	<0.5	125	1
C8	8.1	119	<10	<0.1	6820	<0.5	421	2
C9	17.3	122	20	0.2	14000	<0.5	341	5
C10	11.7	232	50	0.2	12500	1.1	104	2
C11	15.7	250	30	<0.1	10900	<0.5	63	13
C14	22.5	183	80	0.3	11300	1.3	68	12
C15	20.1	87	30	0.2	24200	<0.5	284	15
C16	18.0	27	40	0.4	28800	<0.5	261	8
C17	16.7	129	10	0.3	17800	<0.5	289	18
C18	20.7	102	40	0.4	20900	0.8	239	6
C19	18.3	63	<10	0.1	5160	<0.5	375	10
C23	22.5	74	40	0.4	32100	0.7	180	20
C25	13.7	121	20	0.3	14100	0.7	217	21
C26	27.1	135	30	0.4	23100	1.4	236	12
C27	14.4	91	<10	0.3	19200	<0.5	343	15
C28	9.4	42	30	0.4	29000	<0.5	263	10
C35	14.7	132	30	<0.1	7040	0.7	168	9
C36	32.8	297	40	0.1	8790	0.7	8	5
C38	41.1	27	<10	0.3	13400	<0.5	411	31
C39	23.7	27	<10	0.3	5760	<0.5	569	11
C42	19.4	213	50	<0.1	8170	0.6	17	2
C43	29.3	281	30	<0.1	10000	0.5	5	10
C44	4.8	143	80	<0.1	21100	1.9	66	11
C45	30.7	252	30	<0.1	4630	<0.5	3	26
C46	10.1	50	20	0.1	18800	<0.5	161	7
C49	24.2	143	20	<0.1	4010	<0.5	12	6
C52	7.9	72	40	0.1	13900	0.7	129	8
C53	5.2	41	20	0.2	8680	<0.5	290	2
C61	6.2	165	90	<0.1	7810	2.9	93	10
C66	9.5	252	30	<0.1	9390	0.5	100	11
C76	24.4	153	90	0.9	14600	1.0	166	2
C77	4.0	156	80	0.1	4650	1.1	160	31
C78	12.4	128	20	0.2	10700	<0.5	292	2
C79	12.9	109	20	0.3	9450	<0.5	238	6
C90	28.8	184	50	0.2	14300	2.0	153	23
C91	29.2	203	50	0.2	10300	3.5	159	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
C92	7.4	179	20	0.2	5410	0.6	102	<1
C93	8.4	188	20	0.5	11100	<0.5	245	2
C98	11.2	76	<10	0.2	11700	<0.5	444	9
C103	5.3	247	110	0.2	6700	2.4	89	5
C104	2.2	156	40	<0.1	7840	0.7	117	2
C105	24.7	190	40	0.2	9630	1.1	63	1
C106	56.4	187	20	0.3	5640	<0.5	71	3
C107	65.4	208	10	0.4	8840	<0.5	66	3
C108	34.9	267	60	0.2	9010	1.6	82	21
C111	19.1	150	60	0.3	34100	1.7	176	7
C112	20.2	111	<10	0.2	24700	<0.5	360	5
C119	10.3	234	20	0.4	3180	<0.5	69	4
C120	9.1	106	50	0.3	13600	<0.5	90	8
C121	10.2	200	70	0.5	7690	1.1	98	10
C129	2.9	147	30	<0.1	7010	<0.5	24	4
C130	38.0	200	20	0.2	5290	<0.5	107	7
C131	28.6	251	80	0.1	7220	0.9	80	3
C133	10.3	210	30	0.2	14600	0.7	203	7
C134	36.7	58	<10	0.5	20200	<0.5	611	10
C135	28.3	69	<10	0.3	17300	<0.5	566	19
C136	14.0	150	<10	0.2	8340	0.7	178	24
C137	21.3	24	<10	0.4	14600	<0.5	529	10
C138	8.0	157	80	0.3	36900	1.3	125	5
C139	39.0	352	50	<0.1	10600	0.6	7	6
C140	17.3	122	50	0.3	28600	0.9	268	7
C141	25.0	204	50	0.3	31200	<0.5	167	4
C142	11.0	180	90	0.1	10000	1.4	93	8
C143	46.9	87	<10	0.1	19100	<0.5	419	2
C144	13.2	135	50	0.4	33700	1.2	176	6
C148	5.5	89	90	0.2	7460	1.1	66	12
C155	6.9	74	30	0.5	17200	<0.5	376	14
C156	11.3	12	<10	0.4	23700	<0.5	478	8
C157	6.4	135	60	0.3	16200	1.0	168	7
C158	19.4	58	<10	0.5	22700	<0.5	601	4
C159	5.0	35	10	1.2	13600	<0.5	313	6
C161	7.2	51	30	0.3	23800	<0.5	249	4
C163	42.1	36	40	0.1	26400	<0.5	180	5
C164	45.4	19	<10	0.1	50200	<0.5	493	3
C166	11.6	229	60	0.4	9480	0.9	80	5
C168	2.0	190	60	0.1	21700	0.7	132	14

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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
C169	30.3	58	<10	0.8	23600	<0.5	430	2
C170	42.5	291	60	0.2	13600	0.8	86	5
C171	15.8	117	30	0.6	22600	<0.5	271	<1
C172	13.1	131	20	0.4	26100	<0.5	190	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2 ppb	1 ppb	100 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb	0.2 ppb
C1	167	125	100	2.1	250	21.2	8.8	6.0
C2	212	56	<100	3.1	310	21.3	7.6	5.8
C5	56	20	<100	2.1	50	4.1	2.0	1.8
C6	165	59	<100	1.3	210	21.0	11.1	5.9
C7	524	54	<100	1.2	260	54.8	25.2	16.9
C8	33	15	<100	0.7	110	5.4	2.9	1.8
C9	157	36	<100	0.5	170	26.1	11.6	7.7
C10	406	75	100	2.9	410	39.0	16.5	11.1
C11	157	92	100	2.3	210	16.5	6.6	4.8
C14	423	164	200	3.1	370	44.4	18.7	13.9
C15	108	247	<100	0.3	200	10.5	5.8	3.9
C16	422	34	<100	0.3	1220	47.0	25.0	15.0
C17	393	132	<100	0.4	1600	107	63.3	24.2
C18	711	135	<100	0.7	2320	122	65.2	30.7
C19	104	55	<100	<0.2	490	26.2	17.0	5.1
C23	1090	23	<100	0.8	1050	95.7	41.9	29.2
C25	680	77	100	1.1	1720	84.6	39.1	22.1
C26	1380	63	100	1.1	2200	152	72.9	39.4
C27	495	210	<100	0.3	1460	85.4	48.9	21.0
C28	810	19	<100	0.8	1190	124	64.9	36.8
C35	93	89	<100	2.0	90	8.5	3.9	2.7
C36	369	88	100	2.1	320	34.7	12.1	9.5
C38	297	71	<100	<0.2	3160	48.0	23.7	13.1
C39	147	17	<100	0.2	1760	19.4	10.5	5.5
C42	189	34	100	2.7	240	22.5	8.9	7.4
C43	134	137	100	1.9	180	12.4	5.7	4.3
C44	323	453	100	3.2	250	33.5	12.2	10.9
C45	311	69	100	1.4	180	25.7	10.4	7.6
C46	218	135	<100	0.8	430	12.4	4.9	4.5
C49	413	23	<100	1.4	220	53.6	20.7	16.0
C52	285	10	<100	2.5	360	38.4	14.4	14.2
C53	59	71	<100	0.4	330	7.2	3.2	2.5
C61	143	64	100	2.7	110	8.9	4.3	2.8
C66	60	90	<100	1.5	120	8.5	4.8	2.5
C76	1590	41	<100	1.9	1000	189	81.3	49.2
C77	218	182	200	2.3	200	22.6	9.3	6.4
C78	141	29	<100	0.7	280	18.5	9.0	5.8
C79	444	73	<100	1.3	990	52.3	25.2	15.6
C90	1990	392	100	0.7	310	79.8	30.6	24.4
C91	755	82	<100	0.8	410	88.4	42.6	28.5

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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
C92	446	31	<100	1.3	250	66.7	35.5	17.3
C93	451	101	<100	0.6	290	87.0	44.8	18.3
C98	475	394	<100	0.2	1050	53.0	30.5	14.8
C103	630	76	100	2.8	620	62.5	29.5	17.1
C104	316	122	<100	2.7	150	14.9	6.8	4.4
C105	143	30	<100	2.7	290	15.0	6.6	4.3
C106	836	42	<100	1.8	480	98.3	47.0	30.0
C107	746	63	<100	1.9	480	71.2	30.4	18.3
C108	233	328	<100	1.7	470	18.9	8.7	4.8
C111	1240	107	100	0.6	770	143	68.1	44.6
C112	968	98	<100	<0.2	380	114	47.5	31.6
C119	164	32	<100	1.7	480	30.2	13.8	7.5
C120	1160	63	<100	3.9	610	121	49.1	39.6
C121	813	178	100	3.9	860	69.4	24.4	20.0
C129	220	209	100	2.0	220	17.3	7.8	5.3
C130	152	49	<100	2.1	490	24.4	13.0	6.1
C131	278	98	100	2.5	260	26.3	10.3	7.3
C133	184	89	100	1.3	210	17.1	8.2	5.6
C134	384	15	<100	0.2	2460	55.1	32.0	15.6
C135	326	27	<100	<0.2	1510	57.5	34.7	14.2
C136	207	125	<100	0.2	1030	104	61.5	16.7
C137	56	26	<100	0.6	1090	10.9	5.7	4.1
C138	660	198	100	1.0	420	47.9	21.1	16.9
C139	53	87	100	2.1	150	8.0	4.3	2.5
C140	581	63	100	1.4	700	74.7	41.9	24.5
C141	523	104	<100	0.9	170	53.1	24.2	15.0
C142	75	54	100	1.9	160	5.9	2.7	2.2
C143	32	23	<100	<0.2	170	4.7	2.3	2.4
C144	2320	565	<100	0.8	1210	245	125	74.0
C148	372	54	<100	3.4	380	42.6	19.7	14.0
C155	367	717	<100	0.2	1960	59.2	34.6	15.5
C156	30	108	<100	<0.2	2120	25.6	13.8	7.6
C157	486	310	100	1.2	550	32.4	14.7	9.8
C158	481	30	<100	0.3	1060	56.9	31.6	16.4
C159	173	18	<100	0.3	550	19.9	8.5	6.7
C161	443	39	<100	0.7	610	49.5	23.5	17.0
C163	388	152	<100	0.4	330	24.4	10.4	7.4
C164	44	58	<100	<0.2	250	4.4	2.5	4.0
C166	244	266	100	2.2	270	19.8	9.3	6.3
C168	162	89	<100	1.2	160	15.5	7.4	5.0

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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
C169	756	44	<100	0.3	650	72.3	30.8	19.8
C170	268	53	<100	2.0	320	29.6	12.9	7.4
C171	2070	108	<100	0.9	480	170	67.2	46.2
C172	2430	77	<100	0.5	210	236	111	62.2

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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
C1	88	10.1	22.9	<1	0.2	7.3	96	3
C2	17	2.7	23.0	<1	<0.1	11.1	101	<1
C5	72	7.8	4.3	<1	0.1	8.1	26	<1
C6	155	17.7	24.9	<1	0.2	26.2	89	11
C7	39	3.9	69.3	<1	0.1	21.2	244	<1
C8	20	1.7	6.0	<1	<0.1	16.3	14	<1
C9	31	3.5	28.3	<1	<0.1	6.0	50	3
C10	130	12.6	48.2	<1	0.2	9.2	202	8
C11	107	10.3	17.8	<1	0.2	42.6	87	6
C14	168	12.3	54.0	<1	0.3	15.6	194	5
C15	64	3.7	11.8	<1	<0.1	14.9	35	3
C16	50	1.9	65.1	<1	<0.1	2.9	172	7
C17	131	1.9	107	<1	0.2	4.0	162	2
C18	166	4.4	132	<1	0.2	5.0	301	2
C19	147	1.0	22.1	<1	0.1	1.7	24	1
C23	67	4.2	131	<1	<0.1	4.5	508	1
C25	161	4.3	97.8	<1	0.3	3.5	331	5
C26	191	6.4	189	<1	0.3	6.9	681	6
C27	104	1.4	95.7	<1	0.1	2.6	222	4
C28	46	4.1	176	<1	<0.1	8.6	385	8
C35	105	12.0	9.6	<1	<0.1	8.8	47	6
C36	64	8.6	36.4	<1	0.2	7.7	282	6
C38	31	0.6	60.9	<1	<0.1	12.7	104	24
C39	33	0.6	25.9	<1	<0.1	3.4	51	4
C42	90	11.0	26.4	<1	0.2	17.3	96	5
C43	113	17.9	14.1	<1	0.3	12.7	70	18
C44	158	12.9	37.5	<1	0.3	8.0	141	6
C45	97	14.9	28.2	<1	0.3	11.2	102	6
C46	42	3.2	15.1	<1	<0.1	12.3	62	1
C49	41	6.2	66.2	<1	0.1	17.6	207	1
C52	55	4.5	52.5	<1	<0.1	12.9	156	3
C53	41	2.4	9.9	<1	<0.1	12.4	25	2
C61	164	11.4	11.5	<1	0.1	16.2	80	11
C66	89	10.1	8.9	<1	0.2	10.3	32	10
C76	103	13.3	232	<1	0.2	5.5	823	2
C77	152	6.8	26.4	<1	0.2	13.1	90	3
C78	85	5.5	23.1	<1	<0.1	2.6	72	3
C79	105	3.4	65.3	<1	0.2	4.0	230	2
C90	86	8.9	101	<1	0.2	8.9	1100	3
C91	104	12.3	110	<1	0.2	5.8	517	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
C92	78	7.8	78.2	<1	0.2	2.7	219	3
C93	47	5.7	87.5	<1	<0.1	5.2	223	<1
C98	69	1.7	65.0	<1	<0.1	1.5	216	<1
C103	197	25.3	71.2	<1	0.3	7.9	298	13
C104	85	9.6	16.8	<1	0.1	7.7	158	2
C105	69	5.4	15.5	<1	0.1	9.7	80	2
C106	47	6.6	121	<1	0.1	6.5	397	1
C107	29	4.4	72.3	<1	0.1	4.5	422	<1
C108	119	14.5	18.6	<1	0.3	11.9	97	8
C111	107	7.1	192	<1	0.2	13.5	794	2
C112	17	1.5	143	<1	<0.1	11.1	402	<1
C119	100	5.0	32.3	<1	0.2	2.1	76	<1
C120	57	5.0	152	<1	<0.1	8.4	757	1
C121	126	10.4	77.5	<1	0.2	7.1	418	7
C129	38	4.5	18.4	<1	0.1	7.1	94	2
C130	33	3.4	25.8	<1	<0.1	13.3	72	<1
C131	130	12.6	28.2	<1	0.2	20.1	145	9
C133	108	8.5	19.5	<1	0.2	8.8	92	4
C134	27	1.2	73.5	<1	<0.1	2.8	114	1
C135	56	1.2	64.9	<1	<0.1	3.3	117	<1
C136	202	3.1	88.5	<1	0.3	4.9	87	1
C137	22	2.1	15.2	<1	<0.1	4.7	24	6
C138	102	8.6	61.5	<1	0.2	10.8	349	4
C139	118	13.3	6.9	<1	0.2	8.7	26	21
C140	118	7.9	107	<1	0.1	9.2	332	7
C141	55	7.2	64.3	<1	0.1	12.0	292	2
C142	157	11.1	6.3	<1	0.2	16.9	44	12
C143	22	2.0	5.6	<1	<0.1	4.3	17	<1
C144	88	8.9	346	<1	0.2	7.6	1150	2
C148	71	4.2	57.2	<1	<0.1	9.9	174	7
C155	98	2.1	68.1	<1	<0.1	6.1	165	2
C156	8	<0.5	33.6	2	<0.1	5.7	24	10
C157	128	8.5	38.5	<1	0.2	5.7	224	2
C158	19	1.9	75.7	<1	<0.1	3.3	112	2
C159	23	1.4	24.8	<1	<0.1	4.4	70	2
C161	31	3.1	71.4	<1	<0.1	10.4	184	<1
C163	50	2.6	31.1	<1	<0.1	19.0	115	<1
C164	32	0.9	6.7	<1	<0.1	22.1	23	<1
C166	135	12.0	23.3	<1	0.2	10.1	112	7
C168	87	9.7	16.1	<1	0.2	9.4	83	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
C169	10	1.1	97.1	2	<0.1	4.5	141	<1
C170	89	12.1	32.1	<1	0.2	11.7	167	6
C171	39	5.8	210	<1	<0.1	4.9	803	<1
C172	26	6.6	295	<1	<0.1	3.4	1130	<1

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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
C1	3.8	4100	5	2.7	82	194	6.3	420
C2	1.6	300	6	1.5	95	72	0.9	361
C5	3.6	2700	5	4.3	22	63	8.2	304
C6	20.2	300	9	8.9	98	255	3.5	640
C7	36.2	500	2	1.9	291	147	1.8	455
C8	38.5	200	<2	<0.5	20	113	0.2	289
C9	33.9	800	<2	1.1	90	115	0.3	223
C10	15.5	600	6	4.2	192	198	4.8	315
C11	4.6	1500	5	1.8	70	156	16.7	234
C14	9.0	10900	11	3.5	239	226	7.5	256
C15	59.7	9500	4	1.1	45	288	3.3	229
C16	28.3	2300	4	1.3	253	650	0.9	125
C17	19.3	500	<2	<0.5	296	1500	0.6	314
C18	13.8	3100	4	1.8	446	571	0.7	235
C19	8.7	4200	<2	<0.5	57	1020	0.2	123
C23	28.9	700	5	1.4	573	345	1.1	220
C25	22.1	200	<2	2.0	394	500	1.6	371
C26	24.1	400	3	3.0	739	468	1.6	363
C27	24.1	3600	<2	<0.5	339	1240	0.3	171
C28	47.6	1400	4	3.0	632	565	0.8	76
C35	25.5	2000	5	2.9	48	79	3.8	174
C36	4.9	800	4	4.5	163	153	3.8	587
C38	85.6	3900	4	<0.5	186	1750	0.1	176
C39	58.3	500	4	<0.5	92	1430	0.1	45
C42	6.1	700	6	3.4	104	76	6.9	344
C43	2.8	3300	5	3.8	60	96	6.3	249
C44	9.3	21400	16	3.9	149	210	7.1	190
C45	1.9	2700	4	2.7	104	118	12.7	174
C46	22.4	13600	8	0.8	63	314	2.0	73
C49	3.4	400	6	1.3	247	84	4.4	170
C52	15.9	500	4	1.4	206	121	1.8	106
C53	32.7	4000	4	0.7	39	204	0.7	53
C61	22.1	3000	12	6.7	62	105	8.9	447
C66	10.7	1500	4	2.6	32	121	3.2	444
C76	20.1	700	7	6.0	857	124	2.9	412
C77	12.7	8800	6	2.2	101	247	7.4	369
C78	20.8	400	<2	1.2	88	134	0.7	207
C79	13.4	1800	<2	0.9	268	471	0.9	216
C90	15.2	5300	11	6.1	669	142	1.3	1930
C91	21.1	1100	9	6.4	559	146	1.6	653

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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
C92	9.4	<100	<2	2.4	287	153	0.8	286
C93	38.0	400	3	2.6	279	182	0.5	285
C98	52.8	32500	5	<0.5	281	602	0.3	32
C103	12.5	2300	12	8.9	327	224	7.1	423
C104	16.8	3800	5	4.4	88	95	2.8	216
C105	11.6	300	5	3.0	67	90	1.2	765
C106	15.7	200	3	2.6	527	89	0.7	715
C107	18.0	100	<2	1.9	347	106	0.7	561
C108	21.9	700	12	7.0	86	536	3.3	474
C111	20.4	4600	5	3.6	867	273	2.0	448
C112	72.6	1000	3	<0.5	521	635	0.4	321
C119	6.1	400	<2	1.1	110	194	2.0	285
C120	21.6	2000	3	1.4	687	118	2.1	148
C121	11.4	5000	5	3.1	348	197	3.6	278
C129	2.7	6900	5	2.0	88	89	2.2	290
C130	10.7	300	3	1.2	83	99	1.5	657
C131	9.3	4200	14	4.4	114	113	5.5	513
C133	22.5	800	4	2.4	89	197	2.8	295
C134	66.7	800	3	<0.5	217	1260	0.2	50
C135	67.0	900	<2	<0.5	201	1430	<0.1	64
C136	29.0	2000	3	0.6	207	514	1.2	614
C137	60.1	900	5	0.5	47	410	0.4	12
C138	17.2	4000	4	3.6	289	213	1.5	537
C139	6.3	300	3	5.7	27	169	3.7	826
C140	29.3	1700	4	2.6	414	370	2.7	281
C141	32.5	400	<2	3.2	246	227	1.6	601
C142	20.7	1300	6	6.8	33	143	5.8	761
C143	39.9	400	<2	<0.5	20	267	0.5	263
C144	26.4	10200	4	2.9	1420	387	1.5	669
C148	7.2	6100	5	1.4	248	151	5.8	368
C155	74.9	25200	4	<0.5	246	1060	0.4	86
C156	136	10600	10	<0.5	64	783	0.1	20
C157	26.0	15700	6	3.7	161	308	2.5	263
C158	108	3000	<2	<0.5	207	794	0.1	85
C159	51.9	700	3	<0.5	102	347	0.2	28
C161	40.7	700	5	1.2	270	269	0.6	465
C163	46.2	2000	4	1.4	110	227	3.6	321
C164	70.0	2700	2	<0.5	25	181	1.4	84
C166	5.9	6800	8	4.0	103	163	9.7	489
C168	20.4	7200	4	4.9	71	174	2.5	540

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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
C169	47.4	1100	<2	<0.5	254	221	0.1	92
C170	11.7	400	6	7.9	121	112	2.6	722
C171	60.7	400	2	2.1	927	181	1.1	369
C172	68.2	100	<2	1.8	1270	263	0.7	404

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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
C1	<1	19.0	<0.1	151	1.6	49	19	<1
C2	<1	23.3	<0.1	176	0.9	34	22	<1
C5	<1	5.5	<0.1	135	1.3	18	5	<1
C6	<1	22.1	<0.1	179	1.7	27	23	1
C7	<1	63.5	<0.1	138	0.9	57	62	<1
C8	<1	4.0	<0.1	67	<0.5	13	5	<1
C9	<1	17.9	<0.1	47	0.9	49	24	<1
C10	<1	44.3	<0.1	126	2.9	63	46	<1
C11	<1	17.9	<0.1	198	1.0	38	16	<1
C14	<1	54.3	<0.1	111	5.0	64	53	<1
C15	<1	9.5	<0.1	73	1.6	75	10	<1
C16	<1	49.2	<0.1	19	3.3	21	57	<1
C17	<1	59.8	<0.1	36	1.2	88	84	<1
C18	<1	97.9	<0.1	44	3.6	143	109	<1
C19	<1	10.5	<0.1	17	2.1	42	17	<1
C23	<1	133	<0.1	40	2.9	65	123	<1
C25	<1	87.8	<0.1	58	1.8	83	87	<1
C26	<1	171	<0.1	49	2.2	104	166	<1
C27	<1	70.4	<0.1	33	1.4	71	82	<1
C28	<1	128	<0.1	28	3.1	50	151	<1
C35	<1	10.9	<0.1	173	1.1	29	9	<1
C36	<1	42.8	<0.1	181	2.6	54	34	<1
C38	<1	36.4	<0.1	14	2.1	14	47	<1
C39	<1	17.7	<0.1	15	1.2	8	23	<1
C42	<1	24.5	<0.1	291	2.5	38	24	<1
C43	<1	14.8	<0.1	171	1.7	41	14	1
C44	<1	34.5	<0.1	108	7.4	45	36	<1
C45	<1	24.9	<0.1	139	1.3	65	26	<1
C46	<1	15.2	<0.1	59	2.3	13	15	<1
C49	<1	54.0	<0.1	219	1.2	48	58	<1
C52	<1	46.3	<0.1	92	2.4	26	50	<1
C53	<1	7.2	<0.1	28	1.8	6	9	<1
C61	<1	16.3	<0.1	178	2.2	26	12	1
C66	<1	7.2	<0.1	107	1.1	32	8	<1
C76	<1	201	<0.1	100	8.6	216	195	<1
C77	<1	25.8	<0.1	204	3.6	46	25	<1
C78	<1	20.2	<0.1	45	0.8	28	21	<1
C79	<1	61.9	<0.1	44	1.7	63	61	<1
C90	<1	182	<0.1	65	3.8	87	108	<1
C91	<1	130	<0.1	50	3.2	62	110	<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
C92	<1	61.4	<0.1	55	0.8	58	69	<1
C93	<1	57.0	<0.1	53	1.2	85	72	<1
C98	<1	61.4	<0.1	43	1.0	48	60	<1
C103	<1	76.3	<0.1	101	5.4	106	70	2
C104	<1	22.8	<0.1	100	2.5	39	17	<1
C105	<1	16.4	<0.1	206	2.1	37	15	<1
C106	<1	111	<0.1	96	1.2	120	115	<1
C107	<1	86.3	<0.1	125	0.8	91	68	<1
C108	<1	21.0	<0.1	106	1.9	33	18	1
C111	<1	199	<0.1	45	7.4	120	183	<1
C112	<1	121	<0.1	62	<0.5	84	127	<1
C119	<1	22.2	<0.1	63	0.9	34	28	<1
C120	<1	159	<0.1	112	3.2	108	144	<1
C121	<1	90.7	<0.1	109	5.6	90	74	<1
C129	<1	21.2	<0.1	143	2.7	44	20	<1
C130	<1	17.8	<0.1	159	0.8	49	21	<1
C131	<1	28.5	<0.1	185	3.9	51	28	<1
C133	<1	19.8	<0.1	140	2.0	36	20	<1
C134	<1	41.6	<0.1	25	0.9	25	60	<1
C135	<1	39.6	<0.1	22	1.4	45	53	<1
C136	<1	36.1	<0.1	29	1.7	106	62	<1
C137	<1	9.0	<0.1	24	1.7	14	12	<1
C138	<1	71.6	<0.1	69	7.1	67	60	<1
C139	<1	6.5	<0.1	160	2.4	42	6	<1
C140	<1	92.8	<0.1	77	4.3	86	96	<1
C141	<1	55.0	<0.1	77	2.5	50	54	<1
C142	<1	8.2	<0.1	123	9.3	21	6	<1
C143	<1	4.0	<0.1	42	0.6	10	5	<1
C144	<1	315	<0.1	79	4.0	203	322	<1
C148	<1	52.5	<0.1	91	4.6	51	55	<1
C155	<1	51.5	<0.1	28	3.1	102	57	<1
C156	<1	10.0	<0.1	13	1.4	22	21	<1
C157	<1	38.7	<0.1	104	5.4	68	37	<1
C158	<1	42.0	<0.1	27	1.2	53	60	<1
C159	<1	21.3	<0.1	38	1.3	22	22	<1
C161	<1	56.4	<0.1	43	3.3	39	64	<1
C163	<1	23.5	<0.1	105	1.3	32	25	<1
C164	<1	5.6	<0.1	24	0.6	13	6	<1
C166	<1	24.3	<0.1	196	3.1	51	23	<1
C168	<1	17.2	<0.1	158	3.4	46	16	<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
C169	<1	46.8	<0.1	46	1.0	53	71	<1
C170	<1	28.9	<0.1	139	4.0	55	28	<1
C171	<1	205	<0.1	104	1.9	257	189	<1
C172	<1	290	<0.1	61	0.9	249	261	<1

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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
C1	240	<1	3.8	<10	65.6	970	0.4	18.6
C2	150	<1	3.7	<10	47.7	360	0.4	14.7
C5	430	<1	0.7	<10	27.3	710	0.3	5.6
C6	1080	<1	3.7	<10	27.4	2690	0.2	10.6
C7	860	<1	9.8	<10	40.1	800	0.2	10.8
C8	3080	<1	0.9	<10	8.3	40	<0.1	11.8
C9	2750	<1	4.3	<10	35.6	370	0.1	42.2
C10	570	<1	7.3	<10	92.4	1470	0.5	40.9
C11	230	<1	2.8	<10	35.8	420	0.3	10.0
C14	430	<1	8.0	<10	87.3	1180	0.5	28.7
C15	2400	<1	1.9	<10	54.4	370	<0.1	25.9
C16	1700	<1	8.8	<10	83.4	300	<0.1	35.9
C17	1410	<1	16.3	<10	37.8	90	0.2	99.4
C18	1040	<1	18.7	<10	63.4	420	0.2	61.9
C19	1940	<1	3.9	<10	12.9	40	<0.1	490
C23	1140	<1	17.9	<10	98.6	450	0.2	35.8
C25	980	<1	14.3	<10	66.0	270	0.4	44.2
C26	1030	<1	26.7	<10	111	410	0.2	61.8
C27	1780	<1	14.0	<10	41.5	100	<0.1	52.0
C28	2080	<1	22.3	<10	76.7	630	0.2	40.8
C35	610	<1	1.4	<10	18.2	940	0.3	7.2
C36	100	<1	6.0	<10	62.7	1400	0.4	16.3
C38	2450	<1	8.4	<10	95.5	50	<0.1	168
C39	2730	<1	3.6	<10	37.3	20	<0.1	98.8
C42	130	<1	3.9	<10	34.4	1040	0.4	15.1
C43	30	<1	2.3	<10	30.0	1160	0.4	9.7
C44	360	<1	6.3	<10	58.3	1190	1.3	28.0
C45	<10	<1	4.5	<10	44.3	640	0.3	17.6
C46	1230	<1	2.3	<10	35.2	230	0.2	21.5
C49	60	<1	9.9	<10	39.1	450	0.2	34.8
C52	540	<1	7.2	<10	29.0	460	0.7	13.4
C53	1170	<1	1.4	<10	34.8	230	<0.1	11.4
C61	480	<1	1.6	<10	35.4	1380	0.5	7.9
C66	620	<1	1.4	<10	27.9	1030	0.3	14.4
C76	980	<1	32.8	<10	68.0	2680	0.7	61.4
C77	770	<1	3.7	<10	65.6	700	0.3	26.4
C78	1450	<1	3.2	<10	30.4	390	0.2	18.1
C79	880	<1	9.4	<10	46.3	250	0.3	42.3
C90	700	<1	14.7	<10	168	2440	0.2	43.8
C91	650	<1	14.9	<10	95.4	2800	0.3	18.7

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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
C92	390	<1	11.4	<10	25.7	850	0.5	16.9
C93	1500	<1	13.8	<10	43.1	1400	0.3	30.7
C98	2170	<1	9.2	<10	55.1	80	0.2	66.7
C103	350	<1	11.1	<10	130	3300	0.6	36.7
C104	590	<1	2.6	<10	54.7	2700	0.3	8.5
C105	330	<1	2.5	<10	48.3	980	0.7	14.4
C106	370	<1	17.7	<10	45.3	1020	0.4	28.6
C107	440	<1	11.6	<10	42.5	820	0.5	25.7
C108	540	<1	3.2	<10	29.9	2960	0.3	15.7
C111	990	<1	25.4	<10	168	1020	0.2	46.3
C112	2430	<1	19.8	<10	58.8	70	<0.1	181
C119	310	<1	5.3	<10	44.3	260	0.4	19.4
C120	750	<1	21.4	<10	73.2	580	0.6	24.4
C121	340	<1	12.3	<10	107	1160	1.1	33.4
C129	140	<1	3.0	<10	75.9	830	0.3	13.0
C130	930	<1	4.3	<10	33.4	530	0.2	11.7
C131	340	<1	4.8	<10	86.5	1380	0.4	21.7
C133	990	<1	3.0	<10	44.3	940	0.3	15.2
C134	3030	<1	9.8	<10	55.5	20	0.1	104
C135	2940	<1	9.7	<10	29.4	10	<0.1	82.9
C136	1250	<1	15.8	<10	51.1	150	<0.1	43.7
C137	2600	<1	1.9	<10	21.9	170	<0.1	38.9
C138	720	<1	8.7	<10	116	1300	0.2	20.0
C139	160	<1	1.2	<10	24.3	1960	0.3	4.7
C140	1420	<1	13.6	<10	71.5	920	0.2	28.6
C141	1750	<1	9.1	<10	41.5	1440	0.2	9.7
C142	590	<1	1.0	<10	32.9	1910	0.2	4.8
C143	3030	<1	0.8	<10	6.9	150	<0.1	4.6
C144	1130	<1	44.4	<10	150	1050	0.3	80.2
C148	320	<1	7.8	<10	64.7	370	0.4	15.6
C155	2270	<1	9.4	<10	38.1	150	<0.1	89.8
C156	3050	<1	4.4	<10	17.5	<10	<0.1	26.6
C157	1100	<1	5.8	<10	97.4	1800	0.4	18.8
C158	3680	<1	10.1	<10	34.3	100	<0.1	54.2
C159	1320	<1	3.4	<10	27.6	130	0.1	8.4
C161	1620	<1	8.9	<10	51.1	490	0.2	9.9
C163	1470	<1	4.4	<10	60.1	350	0.1	12.2
C164	3220	<1	0.8	<10	17.9	50	<0.1	4.8
C166	420	<1	3.5	<10	43.0	1170	0.3	9.0
C168	860	<1	2.6	<10	55.8	1960	0.2	8.8

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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
C169	2520	<1	12.5	<10	31.9	20	0.3	23.0
C170	380	<1	5.1	<10	72.9	3110	0.4	9.9
C171	2190	<1	30.7	<10	47.2	1070	0.3	47.1
C172	1500	<1	42.3	<10	38.6	820	0.2	24.1

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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
C1	0.9	87	4.9	50	112
C2	0.7	72	4.9	40	68
C5	0.8	19	1.5	40	55
C6	1.4	109	8.1	90	44
C7	<0.5	302	16.0	40	42
C8	<0.5	28	1.9	20	10
C9	<0.5	116	8.1	50	38
C10	1.1	179	10.2	90	157
C11	<0.5	77	4.1	100	68
C14	1.5	190	12.4	350	115
C15	0.7	50	4.4	50	61
C16	0.8	269	18.0	180	82
C17	<0.5	753	47.1	110	59
C18	0.6	725	51.3	160	121
C19	<0.5	177	13.8	20	32
C23	0.7	485	24.1	300	92
C25	<0.5	453	23.7	360	110
C26	0.6	947	45.8	170	142
C27	<0.5	516	38.0	140	65
C28	0.9	786	46.1	310	113
C35	0.6	41	2.8	420	40
C36	1.3	133	7.3	80	97
C38	<0.5	252	17.9	150	50
C39	<0.5	112	8.0	40	21
C42	0.8	103	5.9	80	79
C43	0.5	57	3.7	130	88
C44	1.3	115	7.8	870	97
C45	0.5	110	7.2	150	104
C46	<0.5	53	3.3	50	34
C49	<0.5	258	11.6	40	59
C52	<0.5	164	8.0	300	45
C53	<0.5	34	2.2	80	32
C61	2.0	53	3.4	640	73
C66	0.6	46	3.0	150	57
C76	2.6	1060	49.3	60	121
C77	0.6	106	6.5	790	83
C78	<0.5	107	6.6	30	40
C79	<0.5	273	19.1	100	58
C90	1.2	419	20.1	260	108
C91	1.6	463	32.6	90	91

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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
C92	0.5	359	25.7	30	51
C93	0.8	472	30.7	30	55
C98	<0.5	317	23.8	100	78
C103	2.8	312	19.5	210	172
C104	2.5	75	4.7	50	77
C105	0.7	62	4.6	40	102
C106	0.5	527	31.5	40	71
C107	<0.5	364	19.2	20	71
C108	0.8	88	5.8	410	51
C111	1.1	833	47.7	110	166
C112	<0.5	527	26.4	30	35
C119	<0.5	134	9.5	20	65
C120	0.6	512	28.4	230	102
C121	0.9	268	14.9	540	153
C129	1.0	73	5.5	50	99
C130	<0.5	128	8.2	40	49
C131	1.2	90	7.0	80	112
C133	0.6	84	5.7	60	67
C134	<0.5	360	23.0	50	53
C135	<0.5	374	24.6	80	36
C136	<0.5	653	41.6	90	42
C137	<0.5	65	4.3	110	24
C138	1.1	233	14.5	100	144
C139	0.9	38	3.0	110	59
C140	0.7	506	31.4	130	106
C141	0.7	337	13.8	50	57
C142	1.4	28	2.0	340	76
C143	<0.5	24	1.6	60	9
C144	1.1	1630	80.5	310	133
C148	0.7	217	13.8	470	87
C155	<0.5	372	28.2	90	75
C156	<0.5	166	10.1	140	29
C157	1.5	158	10.0	180	134
C158	<0.5	367	22.9	50	26
C159	<0.5	93	5.6	270	25
C161	0.5	279	16.8	170	63
C163	0.9	119	6.5	50	42
C164	<0.5	29	2.0	30	13
C166	0.9	97	6.3	90	67
C168	1.1	75	5.1	60	71

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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
C169	<0.5	394	17.6	10	21
C170	1.5	148	8.6	70	94
C171	0.7	891	34.5	30	78
C172	0.6	1560	66.0	20	47

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