

Certificate of Analysis

Work Order : VC162165 [Report File No.: 0000018052]

Date: July 21, 2016

To: Gordon Richards

GORDON RICHARDS 6410 HOLLY PARK DR DELTA BC V4K 4W6 P.O. No.: CROOKED_C268-C301

Project No.: -Samples: 27

Received: Jul 7, 2016
Pages: Page 1 to 8

(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples Method Code

27 G_LOG0227 GE MMI M

Description

Pre-preparation processing, sorting, logging, boxing 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 -- = No result

n.a. = Not applicable

*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	Ag	Al	As	Au	Ва	Bi	Ca	Cd
	Method	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
T268		7.6	89	<10	0.5	26300	<0.5	395	<1
T269		35.9	166	40	0.2	16200	0.5	99	4
T270		4.9	194	100	<0.1	6770	1.3	13	9
T275		9.0	84	10	0.5	16100	<0.5	249	6
T276		12.5	35	10	0.4	28800	<0.5	346	14
T278		26.3	42	<10	0.9	22200	<0.5	489	5
T280		18.1	98	<10	0.2	13000	<0.5	361	28
T281		29.1	82	<10	0.2	13500	<0.5	403	36
T282		36.3	56	<10	0.6	22800	<0.5	479	4
T283		17.3	101	<10	0.5	13800	<0.5	447	9
T284		18.1	52	<10	0.4	17300	<0.5	427	4
T285		11.7	73	10	<0.1	13500	<0.5	410	6
T286		30.9	175	70	0.1	10000	0.9	112	3 7
T287		19.1	50	<10	0.2	24100	<0.5	530	
T288		10.6	57	80	0.5	35600	1.7	173	5
T289		15.3	337	70	<0.1	9270	1.4	13	14
T290		34.7	111	60	<0.1	26900	<0.5	221	4
T291		5.0	63	10	0.1	23800	<0.5	314	<1
T292		68.0	9	<10	0.7	13600	<0.5	789	8
T293		59.9	9	<10	0.8	9730	<0.5	573	29
T295		25.4	52	40	0.3	26600	<0.5	210	12
T296		7.2	53	<10	0.3	11900	<0.5	453	3
T297		33.7	42	<10	0.6	17600	<0.5	628	10
T298		16.6	55	<10	0.4	15900	<0.5	437	5
T299		13.6	49	40	0.4	21800	0.6	210	5
T300		54.7	126	30	0.2	10300	<0.5	250	58
T301		9.0	84	<10	0.4	24600	<0.5	218	1

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000001003	<u> </u>							
Element	Се	Co	Cr	Cs	Cu	Dy	Er	Eu
Method	GE_MMI_M	GE_MMI_M			GE_MMI_M		GE_MMI_M	GE_MMI_M
Det.Lim.	2	1		0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	1400	37	<100	<0.2	380	153	67.4	37.2
	384	55	<100	1.4	320	45.8	19.5	10.3
	73	173	200	5.1	140	5.5	2.4	2.0
	1130	194	<100	0.3	1260	276	159	68.5
	443	52	<100	0.2	2080	89.1	48.5	23.5
	960	98	<100	<0.2	1430	196	107	49.0
	230	83	<100	0.2	810	92.5	59.7	13.8
	235	51	<100	0.2	1170	76.0	50.1	12.0
	346	38	<100	0.2	2150	74.3	42.3	18.2
	96	33	<100	0.3	1200	34.9	20.1	7.2
	645	28	<100	0.2	1220	94.3	47.5	22.8
	35	57	<100	0.4	150	3.8	1.9	1.6
	147	64	<100	2.3	270	13.1	5.0	4.1
	177	87	<100	<0.2	320	20.2	9.3	6.0
	1450	148	<100	1.0	1320	123	50.6	39.1
	187	129	100	2.2	590	24.6	12.3	5.2
	35	48	<100	2.2	230	4.0	1.7	2.6
	206	66	<100	0.2	290	17.1	7.1	5.6
	29	47	<100	<0.2	2530	10.8	5.6	3.1
	18	108	<100	<0.2	3910	8.6	4.4	2.6
	323	35	<100	1.3	1200	60.5	33.0	18.7
	44	17	<100	0.3	460	14.2	7.4	3.7
	198	105	<100	<0.2	2470	42.6	23.5	11.2
	292	22	<100	0.5	540	33.9	15.3	9.2
	1210	78	<100	0.3	810	142	62.5	40.0
	249	299	<100	0.7	510	45.1	24.0	9.4
	923	317	<100	0.5	350	137	68.8	31.8
	Element Method	Method Det.Lim. GE_MMI_M 2 ppb Units 1400 384 73 1130 443 960 230 235 346 96 645 35 147 177 1450 187 35 206 29 18 323 44 198 292 1210 249	Element Method Det.Lim. Ce GE_MMI_M Det.Lim. Ce Det.Lim. Te Det.Lim. T	Element Method Det.Lim. Ce Units Co GE_MMI_M GE_MMI_M GE_MMI_M GE_MMI_M GE_MMI_M Det.Lim. Det.Lim. 100 Det.Lim. 100 Det.Lim. 100 Ppb ppb Det.Lim. 100 <	Element Method Method Det.Lim. Units Ce MMI_M GE_MMI_M GE_MMI_M GE_MMI_M GE_MMI_M GE_MMI_M Dpb GE_MMI_M GE_MMI_M GE_MMI_M GE_MMI_M Dpb GE_MMI_M GE_MMI_M Dpb GE_MMI_M GE_MMI_M Dpb GE_MMI_M GE_MMI_M Dpb GE_MMI_M M GE_MMI_M Dpb GE_MMI_M M GE_MMI_M Dpb GE_MMI_M M GE_MMI_M Dpb GE_MMI_M M GE_MMI_M Dpb QE_MMI_M M GE_MMI_M Dpb QE_MMI_M M GE_MMI_M Dpb QE_MMI_M M GE_MMI_M M GE_MMI_M M Dpb QE_MMI_M M GE_MMI_M M Dpb QE_MMI_M MI_M MI_M MI_M MI_M MI_M MI_M MI	Ce Co Cr Cs Cu GE_MMI_M GE_MMI	Ce Co Cr Cs Cu Dy	Ce Co Cr Cs Cu Dy Er

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	Element	Fe	Ga	Gd	Hg	In	К	La	Li
	Method	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
T268		13	1.4	199	<1	<0.1	7.9	448	<1
T269		52	6.6	42.6	<1	0.1	7.5	224	1
T270		228	19.1	6.1	<1	0.3	10.5	37	19
T275		37	3.1	346	<1	<0.1	7.5	444	<1
T276		47	1.9	114	<1	<0.1	5.4	172	4
T278		14	1.0	257	2	<0.1	4.7	248	2
T280		95	0.8	69.2	<1	0.1	3.0	46	<1
T281		97	0.9	61.6	<1	0.2	3.0	41	2
T282		42	0.5	80.0	<1	<0.1	3.5	135	<1
T283		50	1.0	35.0	<1	<0.1	5.0	51	<1
T284		17	1.2	114	<1	<0.1	4.3	200	3
T285		41	2.9	4.7	<1	<0.1	13.0	15	<1
T286		80	8.7	14.2	<1	0.1	13.4	88	7
T287		37	1.3	26.3	<1	<0.1	9.8	64	<1
T288		96	5.9	188	3	<0.1	4.5	696	5 16
T289		209	19.4	23.7	<1	0.3	16.3	99	16
T290		67	4.7	5.0	<1	<0.1	68.2	19	<1
T291		18	1.3	20.0	<1	<0.1	16.4	52	<1
T292		9	<0.5	13.0	<1	<0.1	6.5	8	9 7
T293		10	<0.5	10.2	<1	<0.1	6.6	4	7
T295		56	3.3	78.3	2	<0.1	5.4	152	2
T296		19	0.8	17.1	<1	<0.1	14.6	17	<1
T297		58	<0.5	47.4	<1	<0.1	3.0	75	4
T298		30	0.7	39.9	<1	<0.1	5.2	67	<1
T299		43	3.5	191	<1	<0.1	5.9	692	1
T300		150	3.8	44.5	<1	0.2	67.3	101	3
T301		20	1.8	169	<1	<0.1	7.5	432	<1

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	Element	Mg	Mn	Mo	Nb	Nd	Ni	Р	Pb
	Method	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
T268		85.1	900	<2	<0.5	606	360	0.1	227
T269		32.4	1000	2	5.4	149	111	1.2	687
T270		3.8	17100	10	8.9	26	74	10.5	537
T275		56.4	4700	2	<0.5	921	620	0.5	175
T276		80.1	1300	6	<0.5	308	893	0.4	132
T278		91.1	6200	2	<0.5	624	981	0.1	72
T280		38.5	4700	<2	<0.5	111	1610	0.1	527
T281		40.9	2500	<2	<0.5	96	1580	0.2	454
T282		66.2	1400	<2	<0.5	232	1410	0.1	83
T283		30.2	1100	<2	<0.5	78	561	0.3	184
T284		53.8	1100	<2	<0.5	345	522	0.3	91
T285		43.4	1600	5	0.7	17	160	0.9	127
T286		11.6	500	8	4.2	63	101	4.1	385
T287		81.5	2000	3	<0.5	79	275	0.7	414
T288		38.1	3000	5	2.3	818	502	1.5	574
T289		6.4	1300	5	7.0	91	266	9.5	718
T290		31.3	400	6	3.1	17	80	6.3	375
T291		82.0	1000	2	<0.5	64	166	0.3	167
T292		102	1700	8	<0.5	21	902	<0.1	91
T293		74.7	1400	9	<0.5	14	1050	<0.1	117
T295		40.6	800	5	<0.5	234	224	1.1	66
T296		64.7	900	4	<0.5	33	203	0.3	48
T297		65.4	1700	5	<0.5	135	2150	<0.1	78
T298		52.4	600	<2	<0.5	113	299	0.3	73
T299		27.1	1600	5	1.6	788	243	1.1	293
T300		47.5	15900	7	1.4	137	497	2.6	360
T301		69.5	3300	3	<0.5	495	230	0.5	478

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	Element	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	Method	GE_MMI_M							
	Det.Lim.	1	0.5	0.1	1	0.5	5	1	1
	Units	ppb							
T268		<1	125	<0.1	38	0.5	74	151	<1
T269		<1	38.2	<0.1	110	2.1	82	34	<1
T270		<1	7.2	<0.1	319	4.3	30	6	1
T275		<1	180	<0.1	26	0.9	238	276	<1
T276		<1	63.0	<0.1	8	3.0	42	89	<1
T278		<1	106	<0.1	8	1.1	32	187	<1
T280		<1	21.1	<0.1	17	1.7	112	42	<1
T281		<1	18.5	<0.1	24	2.0	102	37	<1
T282		<1	45.9	<0.1	16	1.6	42	62	<1
T283		<1	15.6	<0.1	61	1.3	47	23	<1
T284		<1	65.8	<0.1	30	1.2	30	91	<1
T285		<1	3.6	<0.1	49	0.8	5	4	<1
T286		<1	15.7	<0.1	132	3.8	31	13	<1
T287		<1	16.9	<0.1	23	0.5	16	21	<1
T288		<1	193	<0.1	37	5.6	82	182	<1
T289		<1	22.7	<0.1	133	2.2	53	21	1
T290		<1	4.3	<0.1	156	1.6	7	4	<1
T291		<1	12.8	<0.1	50	0.7	14	16	<1
T292		<1	3.8	<0.1	15	1.7	5	8	<1
T293		<1	2.3	<0.1	6	2.1	<5	6	<1
T295		<1	49.5	<0.1	45	3.1	39	64	<1
T296		<1	6.2	<0.1	39	0.5	12	11	<1
T297		<1	27.9	<0.1	9	1.9	34	37	<1
T298		<1	24.5	<0.1	46	1.0	12	33	<1
T299		<1	175	<0.1	52	3.8	60	177	<1
T300		<1	31.1	<0.1	49	1.3	88	37	<1
T301		<1	107	<0.1	111	0.8	150	127	<1

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report i lie ivo	000001003								
	Element	Sr	Ta	Tb		Th	Ti	TI	U
	Method	GE_MMI_M							
	Det.Lim.	10	1	0.1	10	0.5	10	0.1	0.5
	Units	ppb							
T268		2820	<1	26.8	<10	38.0	70	<0.1	63.2
T269		960	<1	7.3	<10	64.6	2140	0.3	18.1
T270		80	<1	0.9	<10	50.6	1630	0.5	8.0
T275		1600	<1	47.2	<10	36.0	200	<0.1	63.7
T276		2100	<1	15.2	<10	67.1	120	<0.1	49.5
T278		2540	<1	33.9	<10	70.8	20	<0.1	27.2
T280		2190	<1	12.5	<10	37.7	20	<0.1	100
T281		2210	<1	10.2	<10	34.8	20	<0.1	112
T282		3180	<1	12.0	<10	54.8	<10	<0.1	123
T283		2840	<1	5.5	<10	46.0	20	0.1	37.1
T284		2630	<1	16.3	<10	77.6	40	0.1	31.0
T285		2480	<1	0.6	<10	20.5	180	<0.1	3.6
T286		760	<1	2.3	<10	54.6	1450	0.4	11.1
T287		2820	<1	3.7	<10	34.5	60	<0.1	11.8
T288		1140	<1	23.4	<10	157	580	0.4	31.7
T289		200	<1	3.9	<10	81.9	1940	0.5	12.8
T290		1280	<1	0.7	<10	20.4	750	0.2	4.6
T291		3180	<1	3.0	<10	41.4	190	<0.1	15.5
T292		5210	<1	1.8	<10	24.3	<10	<0.1	98.6
T293		2950	<1	1.4	<10	13.8	<10	<0.1	73.3
T295		1310	<1	10.7	<10	52.6	250	0.5	17.2
T296		2700	<1	2.4	<10	27.4	<10	0.1	14.1
T297		3760	<1	6.6	<10	36.1	<10	<0.1	288
T298		2300	<1	5.7	<10	63.1	20	0.2	45.6
T299		1600	<1	25.7	<10	197	480	0.1	75.3
T300		1500	<1	7.0	<10	73.5	220	<0.1	55.1
T301		2000	<1	23.5	<10	61.3	60	0.3	37.9

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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
T268	<0.5	979	34.3	20	42
T269	1.0	271	11.8	60	90
T270	1.8	22	1.8	400	78
T275	0.6	1610	122	80	32
T276	<0.5	528	38.4	280	54
T278	<0.5	1060	74.5	40	45
T280	<0.5	603	54.7	330	51
T281	<0.5	489	46.1	420	61
T282	<0.5	430	33.4	30	58
T283	<0.5	204	15.6	40	51
T284	<0.5	477	33.4	60	92
T285	<0.5	20	1.4	50	18
T286	1.5	53	3.4	100	80
T287	<0.5	100	6.2	60	19
T288	2.0	678	33.4	410	113
T289	1.1	117	8.3	150	72
T290	0.8	21	1.2	50	32
T291	<0.5	70	5.0	20	32
T292	<0.5	66	5.3	<10	5
T293	<0.5	47	3.9	20	7
T295	0.6	365	27.6	320	58
T296	<0.5	71	5.2	30	19
T297	<0.5	256	21.1	40	46
T298	<0.5	155	11.4	30	37
T299	1.4	680	41.2	70	97
T300	<0.5	220	18.9	320	53
T301	<0.5	783	49.8	30	54

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