



Certificate of Analysis

Work Order : VC132140

[Report File No.: 000003238]

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


Date: Sep 06, 2013

P.O. No. : STOGGIE Project
Project No. : -
No. Of Samples : 16
Date Submitted : Aug 08, 2013
Report Comprises : Pages 1 to 7
(Inclusive of Cover Sheet)

Distribution of unused material:

Active files:

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

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report File No.: 0000003238

Element	WtKg	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce
Method	WGH79	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	0.001	1	1	10	0.1	10	1	10	1	5
Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
S89	0.275	46	95	<10	0.9	14600	<1	510	6	1210
S90	0.320	27	155	40	0.8	5680	4	210	11	389
S91	0.235	33	157	<10	1.3	4320	2	170	38	195
S92	0.245	40	121	<10	1.3	4490	<1	340	50	336
S93	0.305	35	136	<10	1.1	7270	<1	320	61	695
S94	0.415	21	137	50	1.7	3670	3	190	35	427
S95	0.300	21	158	30	1.0	4820	2	180	40	557
S96	0.290	17	>200	70	0.8	2170	5	50	27	109
S97	0.315	23	>200	40	1.0	3310	6	100	17	290
S99	0.270	79	>200	10	2.8	3440	<1	160	133	489
S103	0.235	82	133	380	0.8	1820	8	210	8	268
S104	0.135	53	173	70	0.2	1970	3	130	20	103
S105	0.285	69	80	20	4.9	6380	<1	300	9	1120
S106	0.255	74	113	<10	3.1	6680	<1	300	34	833
S107	0.245	257	133	<10	4.7	7100	<1	340	91	1720
S108	0.290	21	170	80	0.9	2740	<1	190	36	197

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Element	Co	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	5	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
S89	235	<0.5	1690	265	147	67.4	13	<1	322	<1
S90	370	9.6	1980	81	43.0	19.9	83	7	83	<1
S91	498	13.7	4060	137	85.1	21.7	171	5	101	<1
S92	594	4.7	4960	100	60.4	23.4	52	2	102	<1
S93	259	10.7	2640	145	76.9	37.9	34	1	155	<1
S94	177	13.9	2000	124	68.1	30.6	156	4	133	<1
S95	217	7.7	1270	165	86.4	37.7	116	3	166	<1
S96	178	20.1	530	54	27.4	10.4	227	12	46	<1
S97	239	21.0	970	109	57.7	20.8	235	13	95	<1
S99	368	22.2	1590	256	129	46.8	79	3	200	<1
S103	210	51.4	600	59	29.7	18.0	84	6	70	<1
S104	176	6.1	140	22	11.4	5.6	116	10	25	<1
S105	27	5.1	1500	146	72.7	55.2	22	1	213	<1
S106	124	26.8	710	183	96.5	48.1	11	<1	212	<1
S107	41	26.0	180	200	99.1	47.0	8	<1	210	<1
S108	21	48.5	100	23	12.8	5.2	62	5	23	<1

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
S89	<0.5	4.1	397	<5	92	800	<5	<0.5	789	1020
S90	<0.5	4.0	166	<5	30	4820	10	3.2	252	483
S91	0.5	5.7	62	<5	37	1470	<5	1.0	201	2030
S92	<0.5	9.4	127	<5	47	3880	7	0.6	258	2180
S93	<0.5	5.1	238	<5	49	1260	<5	<0.5	478	1010
S94	<0.5	3.8	150	5	34	1060	7	2.4	356	1020
S95	<0.5	4.8	198	<5	36	2070	<5	1.4	449	844
S96	0.5	6.7	39	20	18	1630	10	5.0	102	323
S97	<0.5	8.6	109	24	33	880	14	4.4	237	604
S99	<0.5	5.6	136	<5	38	1280	<5	<0.5	519	866
S103	<0.5	15.7	93	13	25	3100	7	2.8	212	218
S104	<0.5	19.8	41	6	24	5900	7	3.7	73	118
S105	<0.5	2.8	409	<5	59	780	10	<0.5	806	433
S106	<0.5	2.7	366	<5	48	4720	<5	<0.5	632	311
S107	<0.5	3.8	590	<5	60	3560	<5	<0.5	698	213
S108	<0.5	10.1	52	14	33	6700	7	1.6	66	94

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S89	0.1	240	<1	153	<1	15	<1	198	233	<1
S90	0.9	980	<1	55	<1	115	3	153	65	<1
S91	0.6	1730	<1	35	<1	131	1	172	64	<1
S92	0.3	1220	<1	51	<1	120	<1	174	75	<1
S93	0.3	750	<1	96	<1	130	<1	197	125	<1
S94	1.9	1870	<1	67	<1	123	3	177	105	<1
S95	1.2	2220	<1	87	<1	115	<1	183	128	<1
S96	3.7	2310	<1	18	<1	170	2	73	31	<1
S97	3.2	1710	<1	45	<1	148	2	163	69	<1
S99	0.5	1190	<1	92	<1	86	<1	210	146	<1
S103	3.1	140	<1	41	<1	138	4	153	59	<1
S104	6.0	280	<1	15	<1	76	1	68	20	<1
S105	0.5	640	<1	159	<1	47	1	65	193	<1
S106	0.1	1340	<1	127	<1	50	<1	175	159	<1
S107	<0.1	7160	<1	160	<1	95	<1	106	150	<1
S108	2.9	1350	<1	14	<1	222	1	55	17	<1

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S89	3580	<1	44	<10	36.5	34	<0.5	103	<1	1850
S90	1220	<1	13	<10	66.9	1310	1.2	60	<1	472
S91	1540	<1	19	<10	31.5	308	2.2	79	<1	898
S92	2110	<1	16	<10	37.4	59	1.9	114	<1	654
S93	2260	<1	24	<10	59.0	139	3.3	153	<1	867
S94	980	<1	21	<10	55.3	609	1.3	128	<1	747
S95	1170	<1	27	<10	63.1	323	1.4	123	<1	981
S96	490	<1	8	<10	52.6	1150	1.7	53	<1	318
S97	830	<1	17	<10	82.5	975	1.9	118	<1	653
S99	1570	<1	39	<10	70.9	128	1.6	161	<1	1530
S103	850	<1	10	<10	82.9	941	2.5	121	<1	317
S104	500	<1	4	<10	34.5	1090	<0.5	25	<1	124
S105	2180	<1	28	<10	51.4	129	0.5	124	<1	924
S106	2130	<1	31	<10	33.0	36	1.1	99	<1	1290
S107	2930	<1	34	<10	52.4	3	4.1	54	<1	1470
S108	890	<1	4	<10	31.2	571	2.2	32	<1	150

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC132140 Order: STOGGIE Project

Report File No.: 0000003238

Element	Yb	Zn	Zr
Method	MMI-M	MMI-M	MMI-M
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
S89	108	60	64
S90	30	240	155
S91	63	550	92
S92	45	950	121
S93	55	1650	170
S94	50	1120	314
S95	61	1200	217
S96	19	320	254
S97	40	530	390
S99	81	3070	125
S103	22	310	570
S104	9	540	298
S105	50	650	131
S106	60	970	65
S107	52	1070	117
S108	9	620	116

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.