



## Certificate of Analysis

Work Order : LK1400758

[Report File No.: 000002921]

Date: Dec 31, 2014

To: **Mike Koziol**  
**COD SGS MINERALS**  
Unit 7  
1351C Kelly Lake Road  
Sudbury  
ON P3E 5P5

P.O. No. : Alto Ventures Ltd  
Project No. : -  
No. Of Samples : 4  
Date Submitted : Nov 19, 2014  
Report Comprises : Pages 1 to 10  
(Inclusive of Cover Sheet)

### Distribution of unused material:

To be Disposed:

Certified By :

Bonnie White  
Supervisor - Project Coordinator Group

*SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>*

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	WtKg	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O
Method	G_WGH79	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.001	-10.000	0.01	0.01	0.01	0.01	0.01	0.01
Units	kg	%	%	%	%	%	%	%
ML2014-1	0.787	7.19	39.8	9.55	10.3	15.0	13.7	0.98
ML2014-2	0.532	5.69	40.5	10.2	10.1	16.4	12.7	0.90
WF9-4-4	0.271	2.02	57.4	12.9	10.3	6.03	5.34	4.22
WF9-8-1	0.389	2.19	59.3	15.5	6.52	4.23	5.28	2.71
*Rep BRM		0.770	55.9	21.2	0.18	0.06	0.38	4.70

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Element Method Det.Lim. Units	@Na2O GO_XRF76V 0.01 %	@TiO2 GO_XRF76V 0.01 %	@MnO GO_XRF76V 0.01 %	@P2O5 GO_XRF76V 0.01 %	@Cr2O3 GO_XRF76V 0.01 %	@V2O5 GO_XRF76V 0.01 %	Sum GO_XRF76V 0 %	@Al GE_ICM90A 0.01 %
ML2014-1	1.99	0.52	0.20	0.13	0.10	0.04	99.5	5.14
ML2014-2	1.69	0.59	0.18	0.11	0.09	0.03	99.2	5.38
WF9-4-4	0.57	0.51	0.33	0.16	0.07	0.02	99.8	6.90
WF9-8-1	3.42	0.51	0.18	0.20	0.04	0.02	100.1	7.76
*Rep WF9-8-1								7.85
*Rep BRM	10.0	<0.01	<0.01	<0.01	<0.01	<0.01	93.2	

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Element	@Ba	@Be	@Ca	@Cr	@Cu	@Fe	@K	@Li
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	10	5	0.1	10	10	0.01	0.1	10
Units	ppm	ppm	%	ppm	ppm	%	%	ppm
ML2014-1	270	<5	9.0	620	140	6.65	0.9	50
ML2014-2	190	<5	8.2	530	80	6.44	0.8	50
WF9-4-4	320	<5	3.6	420	<10	6.67	3.8	90
WF9-8-1	250	<5	3.6	200	40	4.27	2.4	50
*Rep WF9-8-1	250	<5	3.5	200	30	4.24	2.4	60

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Element Method Det.Lim. Units	@Mg GE_ICM90A 0.01 %	@Mn GE_ICM90A 10 ppm	@Ni GE_ICM90A 5 ppm	@P GE_ICM90A 0.01 %	@Sc GE_ICM90A 5 ppm	@Sr GE_ICM90A 10 ppm	@Ti GE_ICM90A 0.01 %	@V GE_ICM90A 5 ppm
ML2014-1	8.57	1420	312	0.06	28	480	0.30	204
ML2014-2	9.48	1330	369	0.05	26	420	0.33	194
WF9-4-4	3.44	2460	58	0.08	29	600	0.29	136
WF9-8-1	2.43	1330	60	0.11	18	730	0.29	114
*Rep WF9-8-1	2.45	1350	55	0.10	19	750	0.29	114

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Element	@Zn	@Ag	@As	@Bi	@Cd	@Ce	@Co	@Cs
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	5	1	5	0.1	0.2	0.1	0.5	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ML2014-1	77	<1	<5	<0.1	<0.2	67.5	61.8	0.6
ML2014-2	70	<1	<5	<0.1	<0.2	61.7	59.4	0.7
WF9-4-4	215	<1	<5	<0.1	<0.2	32.0	27.3	17.2
WF9-8-1	161	<1	<5	<0.1	<0.2	40.5	21.9	2.8
*Rep WF9-8-1	173	<1	<5	<0.1	<0.2	40.5	21.9	2.9

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Element Method Det.Lim. Units	@Dy GE_ICM90A 0.05 ppm	@Er GE_ICM90A 0.05 ppm	@Eu GE_ICM90A 0.05 ppm	@Ga GE_ICM90A 1 ppm	@Gd GE_ICM90A 0.05 ppm	@Ge GE_ICM90A 1 ppm	@Hf GE_ICM90A 1 ppm	@Ho GE_ICM90A 0.05 ppm
ML2014-1	4.28	1.74	2.31	11	6.93	1	2	0.73
ML2014-2	4.18	1.65	2.29	10	6.94	2	2	0.67
WF9-4-4	3.68	2.44	1.01	24	4.28	2	3	0.81
WF9-8-1	2.20	1.25	1.02	22	3.26	2	3	0.44
*Rep WF9-8-1	2.28	1.26	1.01	22	3.45	2	3	0.43

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Element Method Det.Lim. Units	@In GE_ICM90A 0.2 ppm	@La GE_ICM90A 0.1 ppm	@Lu GE_ICM90A 0.05 ppm	@Mo GE_ICM90A 2 ppm	@Nb GE_ICM90A 1 ppm	@Nd GE_ICM90A 0.1 ppm	@Pb GE_ICM90A 5 ppm	@Pr GE_ICM90A 0.05 ppm
ML2014-1	<0.2	30.2	0.24	<2	10	42.9	5	9.49
ML2014-2	<0.2	27.3	0.22	<2	10	40.4	<5	8.75
WF9-4-4	<0.2	15.3	0.53	<2	7	21.6	14	4.62
WF9-8-1	<0.2	15.8	0.26	3	8	22.5	15	5.36
*Rep WF9-8-1	<0.2	15.9	0.25	3	8	22.9	14	5.38

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Element	@Rb	@Sb	@Sm	@Sn	@Ta	@Tb	@Th	@Tl
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.2	0.1	0.1	1	0.5	0.05	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ML2014-1	18.7	0.2	8.5	<1	<0.5	0.86	2.9	<0.5
ML2014-2	16.4	0.2	8.5	<1	<0.5	0.84	2.1	<0.5
WF9-4-4	178	0.2	4.6	4	<0.5	0.59	1.2	1.5
WF9-8-1	91.6	0.3	4.2	2	<0.5	0.42	1.9	0.7
*Rep WF9-8-1	91.7	0.3	4.2	2	<0.5	0.41	1.9	0.7

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Element	@Tm	@U	@W	@Y	@Yb	@Zr
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm
ML2014-1	0.23	0.69	<1	21.2	1.5	75.5
ML2014-2	0.21	0.49	<1	19.1	1.4	79.1
WF9-4-4	0.41	0.70	<1	27.5	3.0	80.7
WF9-8-1	0.19	0.78	<1	14.3	1.4	101
*Rep WF9-8-1	0.20	0.81	<1	14.4	1.4	106

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