Certificate of Analysis

Work Order : LK1600792

[Report File No.: 0000008264]

To: **ROBERT VALLIANT**
TRI-ORIGIN EXPLORATION LTD
125 DON HILLOCK DRIVE UNIT 18
AURORA ON L4G 0H8

Date: Nov 07, 2016

P.O. No.	:	Sky Lake
Project No.	:	-
No. Of Samples	:	24
Date Submitted	:	Oct 12, 2016
Report Comprises	:	Pages 1 to 10 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Comments:

Exploration quality assays - not suitable for commercial exchange

Certified By :

Brett Pipher
Project Coordinator

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

For solid samples: Unless otherwise noted, all GT_ tests are reported on a dried at 105°C basis. Other tests are performed on an as received basis unless otherwise indicated. Exceptions will be marked. For example rec (e.g. Cu rec) indicates the results are reported on an as received basis or dry (e.g. Cu dry) indicates the results are reported on a dried basis.

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Element	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O
Method	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V
Detection Limit	-10.000	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
651033	0.758	54.3	13.9	17.3	2.64	5.53	1.05	2.73
651034	1.11	48.6	14.3	14.3	8.34	11.1	0.17	2.03
651035	0.880	49.3	14.8	13.9	7.56	9.65	0.15	3.23
651036	1.03	47.9	15.4	14.1	8.28	9.84	0.27	2.61
651037	0.937	49.5	14.7	14.5	7.17	10.1	0.21	2.41
651038	4.18	42.2	12.5	16.8	7.51	13.7	0.69	2.18
651039	0.988	54.8	12.9	14.8	3.74	8.40	0.32	3.29
651040	1.54	79.1	10.3	3.58	1.31	2.03	1.56	0.23
651041	3.16	51.7	12.8	11.8	5.55	12.0	0.89	1.45
651042	2.20	63.9	15.8	5.05	2.26	6.61	1.85	2.44
651043	1.02	67.6	17.3	2.80	0.79	1.93	4.97	4.04
651044	1.55	73.2	16.9	2.69	0.74	1.65	1.23	1.86
651045	1.86	68.5	16.1	5.39	2.14	5.69	0.12	0.64
651046	2.60	62.1	16.2	4.54	2.95	5.02	2.15	4.35
651047	1.00	68.7	15.5	2.23	0.98	2.71	3.41	4.75
651048	1.74	67.7	15.4	5.92	1.68	2.27	1.95	2.26
651049	1.50	70.3	15.2	1.98	0.86	2.22	2.55	4.19
651050	2.08	73.9	16.7	1.33	0.25	1.18	2.21	1.65
652351	2.13	64.3	17.5	5.36	1.82	2.14	3.20	3.41
652352	1.55	65.9	15.8	5.37	3.40	7.39	0.48	0.41
652353	1.68	70.5	13.7	5.02	2.16	3.09	1.38	2.26
652354	0.905	57.9	17.4	7.02	4.35	8.22	1.28	2.95
652355	0.949	70.3	15.4	1.99	0.82	3.68	1.59	3.88
652356	2.64	64.6	17.1	6.85	1.97	2.24	1.96	2.07

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Element	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum	WtKg	@Al
Method	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	GC_XRF76V	G_WGH79	GE_ICM90A
Detection Limit	0.01	0.01	0.01	0.01	0.01	0	0.001	0.01
Units	%	%	%	%	%	%	kg	%
651033	1.30	0.29	0.22	0.02	0.04	100.0	0.731	7.59
651034	0.81	0.21	0.05	0.03	0.06	101.2	0.439	7.78
651035	1.02	0.22	0.06	0.03	0.07	100.8	0.315	7.91
651036	1.06	0.21	0.07	0.03	0.06	100.8	0.266	8.24
651037	1.09	0.23	0.08	0.03	0.06	101.1	0.358	7.68
651038	1.01	0.26	0.08	0.03	0.03	101.3	0.366	6.37
651039	1.22	0.18	0.14	0.02	0.08	100.9	0.284	6.78
651040	0.35	0.04	0.11	0.04	<0.01	100.2	0.295	5.35
651041	0.97	0.19	0.11	0.03	0.04	100.7	0.264	7.04
651042	0.56	0.09	0.13	0.03	0.02	101.0	1.052	8.33
651043	0.33	<0.01	0.08	0.02	<0.01	101.0	0.351	8.79
651044	0.42	0.01	0.12	0.03	0.02	100.5	0.344	8.87
651045	0.43	0.10	0.14	0.01	0.01	101.1	0.348	8.35
651046	0.56	0.05	0.28	<0.01	<0.01	100.8	0.163	7.97
651047	0.33	0.03	0.15	0.01	<0.01	99.9	0.179	8.11
651048	0.57	0.04	0.08	0.04	0.02	99.7	0.522	8.11
651049	0.25	0.02	0.06	0.02	<0.01	99.2	0.528	8.13
651050	0.46	0.01	0.13	0.04	<0.01	99.9	0.932	8.72
652351	0.54	0.05	0.16	0.03	0.02	100.6	0.403	8.89
652352	0.50	0.06	0.19	0.05	0.02	101.1	0.321	8.35
652353	0.60	0.03	0.06	0.04	0.02	100.6	0.391	6.97
652354	0.54	0.11	0.16	0.03	0.02	100.8	0.980	9.15
652355	0.26	<0.01	0.70	0.01	<0.01	99.6	0.475	8.14
652356	0.60	0.05	0.12	0.04	0.02	100.3	0.413	8.98
*Rep 652356								8.96

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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
Detection Limit	10	5	0.1	10	10	0.01	0.1	10
Units	ppm	ppm	%	ppm	ppm	%	%	ppm
651033	349	<5	3.9	94	59	12.3	0.9	23
651034	49	<5	7.5	187	15	10.0	0.2	11
651035	99	<5	6.5	218	67	9.86	0.2	<10
651036	152	<5	6.7	241	96	9.96	0.3	19
651037	34	<5	6.8	177	46	10.2	0.2	15
651038	301	<5	9.3	205	61	11.9	0.6	45
651039	60	<5	5.7	61	30	10.5	0.3	10
651040	499	<5	1.4	195	31	2.55	1.2	39
651041	310	<5	8.3	275	18	8.40	0.8	19
651042	444	<5	4.5	151	26	3.58	1.5	57
651043	725	<5	1.3	111	<10	1.91	3.6	29
651044	414	<5	1.1	162	20	1.93	1.0	19
651045	79	<5	4.0	152	41	3.91	0.1	45
651046	998	<5	3.4	63	49	3.24	1.7	55
651047	1518	<5	1.9	69	15	1.59	2.7	28
651048	313	<5	1.6	239	16	4.25	1.5	50
651049	900	<5	1.5	88	11	1.42	2.0	39
651050	633	<5	0.8	192	11	0.96	1.7	37
652351	1004	<5	1.4	153	45	3.78	2.5	28
652352	194	<5	5.0	151	<10	3.81	0.4	11
652353	208	<5	2.1	252	73	3.56	1.1	32
652354	428	<5	5.6	190	30	4.99	1.1	23
652355	369	<5	1.9	122	22	1.44	1.3	28
652356	364	<5	1.5	259	25	4.86	1.5	34
*Rep 652356	373	<5	1.5	262	26	4.83	1.5	34

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Element	@Mg	@Mn	@Ni	@P	@Sc	Si	@Sr	@Ti
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	0.01	10	5	0.01	5	0.1	10	0.01
Units	%	ppm	ppm	%	ppm	%	ppm	%
651033	1.50	2156	17	0.10	40	26.3	161	0.75
651034	4.79	1570	129	0.02	45	23.4	183	0.47
651035	4.21	1661	111	0.03	44	23.1	96	0.58
651036	4.78	1665	108	0.03	44	22.8	98	0.60
651037	4.06	1769	79	0.03	44	23.3	111	0.60
651038	4.24	1997	150	0.03	24	19.7	280	0.56
651039	2.13	1418	25	0.06	41	25.8	211	0.69
651040	0.73	315	24	0.05	8	>30.0	381	0.19
651041	3.28	1573	66	0.04	23	24.1	379	0.57
651042	1.26	796	31	0.06	9	29.8	427	0.32
651043	0.44	204	18	0.04	5	>30.0	445	0.18
651044	0.43	324	30	0.05	8	>30.0	606	0.24
651045	1.20	793	35	0.06	10	>30.0	125	0.25
651046	1.62	423	42	0.11	7	28.1	1329	0.31
651047	0.55	252	9	0.06	<5	>30.0	1377	0.19
651048	0.94	420	12	0.03	12	>30.0	471	0.33
651049	0.49	180	10	0.03	<5	>30.0	99	0.14
651050	0.14	188	28	0.05	5	>30.0	479	0.25
652351	1.01	471	23	0.07	11	29.5	503	0.30
652352	1.94	648	34	0.08	8	>30.0	197	0.28
652353	1.17	329	12	0.02	11	>30.0	541	0.33
652354	2.47	866	82	0.07	15	27.5	418	0.30
652355	0.48	148	9	<0.01	<5	>30.0	180	0.14
652356	1.10	438	19	0.05	14	30.0	310	0.33
*Rep 652356	1.07	431	21	0.05	14	>30.0	310	0.34

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Element	@V	@Zn	@Ag	@As	@Bi	@Cd	@Ce	@Co
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	5	5	1	5	0.1	0.2	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
651033	201	128	<1	5	0.2	<0.2	27.6	41.9
651034	312	103	<1	<5	0.1	<0.2	2.8	56.0
651035	289	98	<1	<5	<0.1	<0.2	6.2	51.8
651036	298	92	<1	<5	<0.1	<0.2	5.0	49.4
651037	282	100	<1	<5	0.5	<0.2	5.4	44.6
651038	183	115	<1	148	0.2	<0.2	22.1	51.7
651039	413	97	<1	<5	<0.1	<0.2	31.3	52.4
651040	49	40	<1	9	0.2	<0.2	29.4	8.3
651041	179	113	<1	<5	0.1	<0.2	21.6	38.2
651042	72	77	<1	<5	0.2	<0.2	45.6	16.2
651043	47	45	<1	<5	<0.1	<0.2	18.8	8.3
651044	66	50	<1	49	<0.1	<0.2	51.3	12.1
651045	74	65	<1	57	<0.1	<0.2	54.6	13.0
651046	64	56	<1	<5	<0.1	<0.2	100	15.5
651047	27	47	<1	<5	0.2	<0.2	88.1	5.3
651048	91	65	<1	<5	<0.1	<0.2	44.3	5.1
651049	32	48	<1	<5	0.3	<0.2	15.3	5.1
651050	65	56	<1	561	0.1	<0.2	20.8	11.1
652351	88	65	<1	<5	0.2	<0.2	28.5	10.4
652352	71	84	<1	18	<0.1	<0.2	61.7	12.9
652353	90	77	<1	<5	0.3	<0.2	8.2	7.1
652354	106	70	<1	<5	0.2	<0.2	47.7	27.7
652355	33	40	<1	<5	<0.1	<0.2	17.8	4.7
652356	111	79	<1	41	0.2	<0.2	49.2	10.4
*Rep 652356	112	77	<1	40	0.3	<0.2	51.0	10.5

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Element	@Cs	@Dy	@Er	@Eu	@Ga	@Gd	@Ge	@Hf
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	0.1	0.05	0.05	0.05	1	0.05	1	1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
651033	3.4	4.86	3.23	1.15	23	4.09	1	3
651034	0.4	3.32	2.42	0.49	16	2.42	1	1
651035	0.2	3.80	2.56	0.80	17	3.10	1	2
651036	0.9	4.01	2.58	0.83	17	3.16	1	2
651037	0.6	4.71	3.21	0.83	18	3.35	1	2
651038	18.4	3.63	2.23	1.08	15	3.47	<1	2
651039	0.3	3.82	2.46	1.04	19	3.39	1	3
651040	6.7	1.32	0.75	0.62	13	1.76	15	2
651041	5.1	3.29	1.84	1.02	16	3.29	2	2
651042	15.4	2.17	1.11	1.06	19	2.87	<1	3
651043	7.1	0.80	0.36	0.43	28	1.21	<1	3
651044	3.2	1.48	0.70	1.04	21	2.33	4	3
651045	0.7	2.20	1.16	1.10	21	2.96	7	3
651046	5.4	2.70	1.37	1.79	22	4.35	<1	4
651047	4.2	1.55	0.61	1.35	20	3.24	<1	4
651048	3.3	1.76	1.11	0.71	18	1.59	1	4
651049	5.8	0.64	0.30	0.42	24	1.00	<1	3
651050	9.4	0.78	0.44	0.68	22	1.00	2	3
652351	2.3	1.52	0.88	0.74	21	1.81	<1	3
652352	2.3	2.16	1.03	1.28	20	3.42	<1	3
652353	8.8	1.43	1.19	0.33	18	0.98	2	3
652354	2.4	2.10	1.20	0.98	19	2.53	<1	3
652355	2.2	0.72	0.32	0.52	21	1.16	<1	3
652356	3.4	1.96	1.24	0.85	21	1.78	1	3
*Rep 652356	3.4	1.87	1.31	0.91	21	1.81	1	3

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Element	@Ho	@In	@La	@Lu	@Mo	@Nb	@Nd	@Pb
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	0.05	0.2	0.1	0.05	2	1	0.1	5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
651033	1.03	<0.2	12.0	0.48	10	6	14.2	<5
651034	0.76	<0.2	1.0	0.36	26	1	2.6	<5
651035	0.80	<0.2	1.9	0.36	4	2	5.1	<5
651036	0.86	<0.2	1.5	0.38	6	2	5.0	<5
651037	1.04	<0.2	1.8	0.48	3	2	4.5	8
651038	0.75	<0.2	9.6	0.32	3	3	12.8	<5
651039	0.79	<0.2	15.0	0.37	3	5	14.3	<5
651040	0.25	<0.2	14.1	0.10	26	4	12.5	12
651041	0.64	<0.2	9.0	0.25	2	2	12.8	5
651042	0.38	<0.2	21.9	0.16	3	4	20.8	9
651043	0.13	<0.2	8.9	0.05	3	2	7.3	18
651044	0.26	<0.2	26.0	0.10	3	3	20.5	13
651045	0.41	<0.2	26.5	0.16	3	4	23.5	8
651046	0.50	<0.2	47.3	0.18	<2	10	43.1	20
651047	0.23	<0.2	40.5	0.08	<2	5	38.1	31
651048	0.35	<0.2	23.7	0.16	4	6	13.6	13
651049	0.10	<0.2	7.5	<0.05	<2	1	6.6	13
651050	0.16	<0.2	9.6	0.07	2	4	8.3	12
652351	0.30	<0.2	11.0	0.13	<2	4	10.7	17
652352	0.38	<0.2	31.1	0.14	2	4	27.1	6
652353	0.35	<0.2	5.8	0.23	3	5	3.0	7
652354	0.39	<0.2	22.9	0.20	<2	4	20.8	7
652355	0.12	<0.2	8.8	<0.05	<2	2	8.0	9
652356	0.39	<0.2	25.6	0.19	24	6	17.7	14
*Rep 652356	0.41	<0.2	26.4	0.19	24	6	18.0	15

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Element	@Pr	@Rb	@Sb	@Sm	@Sn	@Ta	@Tb	@Th
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	0.05	0.2	0.1	0.1	1	0.5	0.05	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
651033	3.64	35.8	0.5	3.4	1	<0.5	0.70	3.4
651034	0.51	2.0	0.1	1.3	<1	<0.5	0.49	0.3
651035	1.02	1.1	0.5	2.1	<1	<0.5	0.55	0.3
651036	0.92	7.3	0.2	2.3	1	<0.5	0.57	0.3
651037	0.88	2.1	0.2	2.0	<1	<0.5	0.65	0.4
651038	3.01	36.6	0.4	3.1	<1	<0.5	0.57	1.1
651039	3.82	2.6	0.1	3.2	<1	<0.5	0.56	3.0
651040	3.47	44.6	0.2	2.3	<1	<0.5	0.24	4.7
651041	3.01	23.4	<0.1	3.2	<1	<0.5	0.50	1.2
651042	5.60	68.7	0.2	3.7	<1	<0.5	0.37	3.5
651043	2.07	142	<0.1	1.5	<1	<0.5	0.14	4.7
651044	5.97	31.4	0.3	3.4	<1	<0.5	0.28	4.3
651045	6.57	2.3	0.3	4.0	<1	<0.5	0.41	4.7
651046	12.0	52.7	0.1	7.0	<1	<0.5	0.53	10.3
651047	10.6	67.0	0.2	5.9	<1	<0.5	0.35	8.0
651048	4.64	73.8	<0.1	2.1	<1	<0.5	0.27	5.7
651049	1.86	88.6	0.2	1.4	<1	<0.5	0.12	3.4
651050	2.48	78.3	0.2	1.3	<1	<0.5	0.14	4.3
652351	2.94	78.0	<0.1	2.1	<1	<0.5	0.25	5.2
652352	7.61	13.4	0.2	5.0	<1	<0.5	0.40	4.9
652353	0.85	36.8	<0.1	0.7	<1	<0.5	0.20	2.1
652354	5.80	40.5	<0.1	3.5	<1	<0.5	0.34	3.7
652355	2.24	48.5	<0.1	1.6	<1	<0.5	0.14	3.5
652356	5.44	69.7	<0.1	2.5	<1	<0.5	0.30	6.6
*Rep 652356	5.67	70.0	<0.1	2.6	1	<0.5	0.31	7.1

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Element	@Tl	@Tm	@U	@W	@Y	@Yb	@Zr
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Detection Limit	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
651033	<0.5	0.49	0.89	2	26.1	3.2	116
651034	<0.5	0.35	0.08	1	19.3	2.4	41.4
651035	<0.5	0.37	0.08	1	20.7	2.5	52.0
651036	<0.5	0.37	0.09	1	20.8	2.5	56.5
651037	<0.5	0.48	0.12	1	26.3	3.1	58.3
651038	<0.5	0.34	0.32	2	19.5	2.0	55.7
651039	<0.5	0.37	0.82	1	20.2	2.3	96.3
651040	<0.5	0.10	4.25	13	6.3	0.6	70.7
651041	<0.5	0.28	0.25	10	16.4	1.7	53.3
651042	0.5	0.18	0.76	1	10.7	1.0	127
651043	0.7	0.05	1.18	1	3.4	0.3	120
651044	<0.5	0.10	0.74	33	6.2	0.6	110
651045	<0.5	0.18	0.56	54	11.2	1.1	102
651046	<0.5	0.19	2.95	1	13.0	1.2	149
651047	0.5	0.09	2.83	2	6.8	0.5	158
651048	0.5	0.17	1.61	4	9.4	1.1	129
651049	<0.5	<0.05	1.23	1	3.1	0.3	96.0
651050	<0.5	0.07	0.70	54	3.8	0.4	118
652351	0.5	0.13	1.66	2	7.6	0.8	120
652352	<0.5	0.14	0.75	2	10.1	0.9	126
652353	<0.5	0.22	0.56	2	9.4	1.4	121
652354	<0.5	0.20	0.90	<1	10.7	1.2	106
652355	<0.5	<0.05	1.26	2	3.2	0.3	104
652356	<0.5	0.19	1.72	7	10.2	1.2	114
*Rep 652356	<0.5	0.20	1.74	5	10.0	1.2	114

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