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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Geological Survey of Canada
Room 659 - 601 Booth St.
Ottawa ON K1A 0E8 Canada

Submitted By: Alexandre Zagorevski
Receiving Lab: Canada-Vancouver
Received: February 15, 2012
Report Date: March 05, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN12000736.1

CLIENT JOB INFORMATION

Project: Stikinia
Shipment ID: NRCan-07M052461W
P.O. Number: 3000455524
Number of Samples: 82

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include: No Prep (82), P200 (82), and 4A4B (82).

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Geological Survey of Canada - Invoice Receipt
615 Booth St.,
Mailbox SS0-1-A 1st Floor
Ottawa ON K1A 0E9
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B										
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
Unit		%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	0.5	
FDE01-10-11	Rock Pulp	50.82	16.33	9.78	5.89	8.71	4.13	0.05	0.71	0.08	0.15	0.014	26	35	3.1	99.81	51	<1	37.8	0.2	16.4
FDE01-10-13N	Rock Pulp	47.12	15.10	11.80	5.90	9.93	2.58	1.43	1.42	0.18	0.19	0.028	56	47	4.1	99.78	409	<1	49.0	3.8	15.6
FDE01-13-4	Rock Pulp	39.65	14.64	13.02	7.33	17.99	0.20	0.01	1.72	0.15	0.18	0.021	44	46	4.9	99.77	10	1	45.7	<0.1	17.7
FDE01-14-12	Rock Pulp	44.45	10.85	11.03	10.54	10.89	2.40	1.04	2.76	0.40	0.15	0.081	141	33	5.0	99.65	354	<1	48.0	1.1	16.5
FDE01-2-16	Rock Pulp	46.25	15.81	4.03	11.39	17.22	1.02	0.17	0.19	<0.01	0.11	0.154	176	43	3.4	99.75	57	<1	27.8	<0.1	9.5
FDE01-23-6	Rock Pulp	53.82	13.78	8.44	7.29	9.32	3.69	0.10	0.62	0.07	0.15	0.049	85	34	2.5	99.83	12	<1	34.9	<0.1	11.6
FDE01-25-4	Rock Pulp	51.09	15.12	9.66	6.75	8.68	3.87	0.64	1.01	0.09	0.15	0.022	51	36	2.7	99.76	258	1	34.8	0.4	16.5
FDE01-25-7	Rock Pulp	45.39	13.21	12.60	6.49	15.82	0.87	0.12	1.68	0.14	0.20	0.022	45	39	3.2	99.72	40	<1	43.2	<0.1	17.0
FDE01-25-8	Rock Pulp	48.69	14.70	10.63	6.33	10.22	3.33	0.09	1.35	0.12	0.17	0.024	57	37	4.1	99.80	58	<1	39.7	<0.1	16.7
FDE01-26-13	Rock Pulp	54.28	14.31	8.62	4.67	11.03	2.55	0.05	0.98	0.07	0.13	0.006	<20	27	3.2	99.86	35	<1	29.2	<0.1	16.3
FDE01-26-16	Rock Pulp	50.98	13.35	10.10	4.98	13.01	1.19	0.02	1.28	0.11	0.14	0.023	40	33	4.7	99.84	18	<1	36.3	<0.1	22.7
FDE01-31-10	Rock Pulp	47.37	14.79	10.91	6.72	11.09	2.49	0.19	1.33	0.12	0.18	0.028	57	36	4.6	99.79	21	<1	40.4	0.1	16.8
FDE01-31-12	Rock Pulp	77.14	12.82	0.28	0.31	1.14	5.50	1.65	0.11	0.04	<0.01	0.023	<20	3	1.0	99.97	99	2	0.6	<0.1	7.6
FDE01-31-1A	Rock Pulp	38.92	13.33	12.08	7.33	9.38	1.92	2.09	4.19	2.09	0.19	0.022	87	19	7.8	99.38	1120	5	40.2	28.2	22.9
FDE01-31-1B	Rock Pulp	38.34	14.28	12.86	7.59	7.99	1.36	2.63	4.60	2.36	0.17	0.024	81	21	7.1	99.30	1251	4	43.6	26.9	24.1
FDE01-31-3	Rock Pulp	40.54	12.75	11.36	7.33	8.78	2.70	1.98	4.08	1.93	0.14	0.021	80	18	7.6	99.21	1482	4	38.7	14.6	22.6
FDE01-31-4	Rock Pulp	48.79	13.21	10.78	6.85	9.94	3.89	0.10	1.74	0.22	0.18	0.026	40	41	4.0	99.78	72	<1	40.0	0.4	17.8
FDE01-31-6	Rock Pulp	46.82	18.90	5.45	7.79	13.01	2.36	0.47	0.21	0.01	0.10	0.028	140	27	4.7	99.83	24	<1	29.1	0.4	13.5
FDE01-31-7	Rock Pulp	50.35	15.49	8.88	7.29	9.96	3.67	0.05	0.76	0.07	0.15	0.020	55	36	3.1	99.81	11	1	37.4	<0.1	14.8
JC00-082C	Rock Pulp	51.23	12.26	6.44	8.57	7.44	2.49	3.82	1.13	0.83	0.08	0.067	318	17	4.3	98.75	7332	<1	37.9	0.6	17.9
JEN01-10-2	Rock Pulp	48.53	15.17	9.09	3.63	9.13	4.88	0.67	2.66	0.58	0.14	0.005	25	18	5.2	99.72	225	2	29.7	0.6	20.5
JEN01-16-11	Rock Pulp	49.43	14.89	11.17	6.80	9.70	3.86	0.17	1.27	0.10	0.18	0.025	59	38	2.2	99.76	50	<1	39.6	0.6	16.2
JEN01-16-4	Rock Pulp	49.58	14.28	12.81	6.20	9.23	3.80	0.27	1.53	0.15	0.21	0.017	39	40	1.7	99.78	31	<1	43.0	0.7	16.8
JEN01-16-8	Rock Pulp	49.74	14.17	11.58	6.37	10.06	3.47	0.19	1.43	0.12	0.19	0.021	57	36	2.5	99.80	25	<1	38.9	0.3	17.6
JEN01-23-12	Rock Pulp	48.19	15.16	10.34	6.74	11.13	2.27	0.34	1.23	0.11	0.16	0.032	58	37	4.1	99.80	25	<1	37.6	0.6	15.9
JEN01-23-8	Rock Pulp	48.58	15.43	10.49	6.41	10.96	1.60	0.27	1.23	0.11	0.17	0.035	71	39	4.5	99.81	36	<1	41.6	0.2	17.8
JEN01-24-3	Rock Pulp	52.00	15.09	9.79	6.36	7.77	4.63	0.09	0.97	0.09	0.16	0.010	38	35	2.8	99.79	177	<1	35.9	0.2	15.9
JEN01-26-5A	Rock Pulp	48.40	15.47	9.40	8.26	9.92	3.35	0.07	0.83	0.07	0.17	0.036	74	39	3.8	99.78	25	<1	42.1	<0.1	15.7
JEN01-26-5B	Rock Pulp	50.33	14.94	10.16	7.40	8.27	4.08	0.43	0.91	0.08	0.17	0.018	47	39	3.0	99.79	33	<1	39.6	0.1	13.8
JEN01-26-8A	Rock Pulp	60.88	17.52	5.15	2.29	2.87	5.83	1.59	0.73	0.21	0.07	<0.002	<20	7	2.7	99.78	481	1	9.2	2.1	20.0

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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	4A-4B																			
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm	ppm																		
MDL		0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01
FDE01-10-11	Rock Pulp	1.5	0.8	0.5	<1	259.4	<0.1	<0.2	0.1	289	<0.5	49.2	17.9	1.9	6.4	1.04	5.9	1.82	0.76	2.54	0.49
FDE01-10-13N	Rock Pulp	2.2	1.2	33.9	<1	112.0	<0.1	<0.2	0.4	321	<0.5	72.5	36.3	2.4	7.8	1.49	7.8	3.18	1.20	4.78	0.97
FDE01-13-4	Rock Pulp	3.1	1.4	0.2	<1	88.4	<0.1	<0.2	<0.1	419	<0.5	96.8	37.2	3.6	12.1	2.01	9.7	4.03	1.23	5.63	1.09
FDE01-14-12	Rock Pulp	5.4	53.1	30.9	2	187.7	3.2	4.2	0.9	278	2.5	213.7	21.9	41.9	85.4	10.21	38.9	7.79	2.35	6.46	0.97
FDE01-2-16	Rock Pulp	0.2	0.5	3.4	<1	250.5	<0.1	<0.2	<0.1	143	<0.5	6.9	5.4	<0.1	0.6	0.16	0.8	0.49	0.24	0.76	0.17
FDE01-23-6	Rock Pulp	1.5	0.9	1.0	<1	71.8	<0.1	<0.2	0.1	248	0.5	44.6	16.0	2.7	5.7	0.89	4.5	1.55	0.58	2.18	0.42
FDE01-25-4	Rock Pulp	1.9	1.1	10.9	<1	181.8	<0.1	0.3	0.3	317	<0.5	63.8	24.8	3.0	9.7	1.44	6.9	2.52	0.95	3.52	0.71
FDE01-25-7	Rock Pulp	2.8	1.4	1.6	<1	522.3	<0.1	<0.2	<0.1	405	<0.5	100.4	40.7	3.5	13.0	2.07	11.4	4.05	1.36	5.82	1.11
FDE01-25-8	Rock Pulp	2.2	1.7	1.4	<1	116.2	<0.1	<0.2	0.2	335	<0.5	83.8	31.4	3.8	11.6	1.87	8.8	3.31	1.20	4.67	0.87
FDE01-26-13	Rock Pulp	1.2	0.8	0.5	<1	51.9	<0.1	<0.2	<0.1	304	<0.5	42.0	20.0	1.6	5.4	0.96	6.3	1.81	0.73	2.73	0.53
FDE01-26-16	Rock Pulp	2.3	2.1	1.3	<1	50.1	<0.1	<0.2	<0.1	315	<0.5	75.2	29.8	2.9	9.6	1.60	7.7	2.92	1.16	4.05	0.80
FDE01-31-10	Rock Pulp	2.4	1.2	2.2	<1	108.1	<0.1	<0.2	0.1	314	<0.5	75.2	28.8	3.0	9.6	1.57	7.9	3.01	1.12	4.26	0.82
FDE01-31-12	Rock Pulp	2.9	2.5	17.1	<1	164.1	0.2	1.6	0.5	<8	<0.5	82.2	19.2	5.4	15.0	2.04	8.1	1.93	0.30	2.08	0.42
FDE01-31-1A	Rock Pulp	13.7	165.4	48.5	3	1037	9.3	15.5	3.6	252	2.1	646.5	38.6	149.4	298.4	33.32	123.2	20.56	6.00	14.13	1.86
FDE01-31-1B	Rock Pulp	15.9	186.3	57.6	4	1223	10.7	17.6	2.3	283	0.8	727.6	43.6	170.3	332.9	37.91	141.4	23.00	6.99	16.33	2.10
FDE01-31-3	Rock Pulp	13.9	162.6	36.5	3	2084	9.0	15.3	4.0	236	3.2	647.7	37.2	148.3	294.9	32.85	125.8	19.99	5.95	13.75	1.76
FDE01-31-4	Rock Pulp	3.5	9.7	1.1	1	173.3	0.6	0.7	0.4	315	<0.5	131.6	29.1	10.0	24.6	3.38	15.1	4.22	1.47	5.03	0.88
FDE01-31-6	Rock Pulp	0.3	0.3	6.1	<1	203.0	<0.1	<0.2	<0.1	115	<0.5	7.9	6.9	0.7	2.1	0.33	1.7	0.70	0.39	0.91	0.17
FDE01-31-7	Rock Pulp	1.2	0.7	0.2	<1	171.2	<0.1	<0.2	<0.1	273	<0.5	42.7	17.6	1.7	6.1	0.94	4.2	1.82	0.74	2.57	0.48
JC00-082C	Rock Pulp	6.3	11.2	59.4	2	1203	0.5	30.1	5.3	133	0.7	252.9	22.3	148.5	307.0	35.19	133.6	19.47	4.91	10.99	1.22
JEN01-10-2	Rock Pulp	7.7	43.4	9.5	2	509.3	2.6	5.4	2.0	233	0.9	313.4	36.0	38.4	83.0	9.91	39.1	8.33	2.44	8.16	1.28
JEN01-16-11	Rock Pulp	1.9	1.5	2.8	<1	255.3	<0.1	<0.2	<0.1	325	<0.5	70.7	29.9	2.9	8.6	1.50	8.6	3.01	1.04	4.28	0.78
JEN01-16-4	Rock Pulp	2.8	3.2	3.6	<1	180.4	0.2	0.2	<0.1	382	<0.5	97.7	35.4	4.4	12.6	2.06	10.4	3.64	1.37	5.26	1.00
JEN01-16-8	Rock Pulp	2.2	1.9	2.4	1	137.4	0.1	<0.2	<0.1	347	<0.5	83.0	32.3	3.7	10.8	1.88	10.8	3.23	1.13	4.78	0.89
JEN01-23-12	Rock Pulp	2.2	1.4	7.1	<1	89.4	<0.1	<0.2	0.2	308	<0.5	68.5	28.1	2.7	8.7	1.48	7.7	2.74	1.09	3.93	0.74
JEN01-23-8	Rock Pulp	2.3	1.5	5.4	<1	60.9	<0.1	<0.2	0.2	326	<0.5	76.0	30.3	3.0	9.3	1.54	9.5	3.01	1.20	4.29	0.80
JEN01-24-3	Rock Pulp	1.6	0.9	1.3	<1	205.3	<0.1	<0.2	<0.1	314	<0.5	58.8	22.2	2.7	7.6	1.26	5.9	2.25	0.86	3.33	0.63
JEN01-26-5A	Rock Pulp	1.1	0.6	0.9	<1	115.4	<0.1	<0.2	<0.1	294	<0.5	38.6	19.4	1.8	4.8	0.87	5.5	1.76	0.74	2.54	0.52
JEN01-26-5B	Rock Pulp	1.5	1.0	3.8	<1	172.7	<0.1	<0.2	<0.1	311	<0.5	46.4	22.8	1.6	5.6	0.99	5.4	2.03	0.72	3.12	0.59
JEN01-26-8A	Rock Pulp	2.6	8.1	28.4	<1	863.8	0.4	1.1	0.6	86	<0.5	95.4	14.4	9.8	21.1	2.61	11.4	2.54	0.83	2.66	0.41

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Project: Stikinia
 Report Date: March 05, 2012

Page: 2 of 4 Part 3

CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B 2A	Leco 2A	Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	Hg	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	
MDL	0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	
FDE01-10-11	Rock Pulp	3.07	0.73	1.95	0.31	1.93	0.30	0.07	0.15	0.4	80.1	0.6	70	32.3	1.8	<0.1	<0.1	<0.1	<0.1	1.4	<0.01
FDE01-10-13N	Rock Pulp	6.06	1.51	4.29	0.63	3.79	0.60	0.05	<0.02	0.5	40.5	0.5	83	48.6	2.7	0.2	0.1	<0.1	<0.1	2.2	<0.01
FDE01-13-4	Rock Pulp	6.89	1.56	4.30	0.68	3.87	0.65	0.07	<0.02	<0.1	61.7	0.2	77	49.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-14-12	Rock Pulp	5.20	0.92	2.31	0.31	1.70	0.25	0.59	<0.02	0.4	103.3	1.7	79	122.7	0.6	0.2	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-2-16	Rock Pulp	0.91	0.26	0.69	0.10	0.63	0.09	0.04	<0.02	<0.1	124.4	0.4	9	125.1	0.8	<0.1	<0.1	<0.1	<0.1	1.7	<0.01
FDE01-23-6	Rock Pulp	2.80	0.66	1.84	0.29	1.67	0.29	0.11	<0.02	0.2	73.6	0.3	27	41.3	0.6	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-25-4	Rock Pulp	4.08	1.03	2.71	0.45	2.60	0.41	0.16	0.12	0.5	83.6	0.6	36	41.5	0.8	<0.1	0.1	<0.1	<0.1	<0.5	0.01
FDE01-25-7	Rock Pulp	7.11	1.60	4.53	0.71	4.19	0.66	0.04	<0.02	0.2	59.3	0.3	29	35.9	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-25-8	Rock Pulp	5.48	1.20	3.51	0.53	3.28	0.51	0.37	0.07	0.4	63.6	0.8	68	53.1	<0.5	0.1	<0.1	<0.1	<0.1	<0.5	0.02
FDE01-26-13	Rock Pulp	3.00	0.78	2.11	0.35	1.91	0.33	0.09	<0.02	0.1	3.5	0.3	16	13.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-26-16	Rock Pulp	5.01	1.16	3.37	0.51	2.92	0.46	0.14	0.06	0.5	59.7	0.5	70	43.1	<0.5	0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-31-10	Rock Pulp	5.28	1.11	3.16	0.50	3.03	0.50	0.06	0.12	1.1	91.7	1.2	86	52.7	<0.5	0.2	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-31-12	Rock Pulp	2.72	0.67	1.90	0.33	2.24	0.38	0.08	<0.02	0.3	1.6	0.3	<1	11.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-31-1A	Rock Pulp	8.89	1.47	3.59	0.48	2.82	0.38	0.65	<0.02	3.4	28.0	7.8	152	89.9	2.8	0.1	0.1	<0.1	0.1	<0.5	0.03
FDE01-31-1B	Rock Pulp	9.69	1.75	4.19	0.54	2.92	0.42	0.26	<0.02	1.8	31.0	7.4	182	93.7	2.9	0.2	0.1	<0.1	<0.1	0.5	0.03
FDE01-31-3	Rock Pulp	8.38	1.43	3.36	0.48	2.61	0.36	0.71	<0.02	4.6	27.8	7.6	136	98.6	1.9	0.2	<0.1	<0.1	<0.1	<0.5	0.02
FDE01-31-4	Rock Pulp	5.22	1.07	3.25	0.45	2.78	0.41	0.23	0.05	0.9	93.7	0.6	58	35.7	0.6	0.2	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-31-6	Rock Pulp	1.14	0.31	0.77	0.11	0.68	0.13	<0.02	<0.02	0.2	35.0	0.2	13	96.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
FDE01-31-7	Rock Pulp	3.06	0.71	1.91	0.29	1.82	0.30	0.03	<0.02	0.2	7.2	0.2	22	34.7	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JC00-082C	Rock Pulp	4.96	0.74	1.79	0.27	1.58	0.24	0.17	0.10	0.3	69.1	33.6	93	258.8	1.6	<0.1	<0.1	<0.1	<0.1	<0.5	0.10
JEN01-10-2	Rock Pulp	6.72	1.41	3.69	0.50	3.10	0.47	0.82	<0.02	1.6	42.5	3.5	88	25.2	<0.5	0.3	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-16-11	Rock Pulp	5.35	1.13	3.29	0.50	3.12	0.45	0.05	<0.02	0.2	68.2	0.3	47	54.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-16-4	Rock Pulp	6.02	1.39	4.27	0.59	3.73	0.57	0.04	<0.02	0.4	69.8	0.7	26	25.8	4.3	0.1	<0.1	<0.1	<0.1	1.4	<0.01
JEN01-16-8	Rock Pulp	5.80	1.24	3.50	0.53	3.49	0.52	0.08	<0.02	0.2	58.7	0.3	27	37.9	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-23-12	Rock Pulp	4.79	1.01	3.11	0.46	3.09	0.46	0.05	0.07	0.8	68.3	0.4	54	51.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-23-8	Rock Pulp	5.23	1.17	3.29	0.49	2.89	0.46	0.02	<0.02	0.2	66.0	0.3	64	59.6	1.5	0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-24-3	Rock Pulp	4.04	0.86	2.78	0.40	2.51	0.39	0.06	<0.02	<0.1	34.3	0.2	59	30.0	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-26-5A	Rock Pulp	3.47	0.74	2.19	0.32	2.24	0.32	0.08	<0.02	0.2	84.0	0.3	57	70.3	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-26-5B	Rock Pulp	4.14	0.91	2.63	0.39	2.58	0.38	0.05	<0.02	0.2	82.6	0.4	45	39.2	0.9	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN01-26-8A	Rock Pulp	2.55	0.53	1.51	0.22	1.32	0.22	0.09	<0.02	0.2	4.7	2.0	67	3.3	1.2	0.2	<0.1	<0.1	<0.1	<0.5	0.01

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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	1DX	1DX
Analyte	TI	Se
Unit	ppm	ppm
MDL	0.1	0.5
FDE01-10-11	Rock Pulp	<0.1 <0.5
FDE01-10-13N	Rock Pulp	0.1 <0.5
FDE01-13-4	Rock Pulp	<0.1 <0.5
FDE01-14-12	Rock Pulp	<0.1 <0.5
FDE01-2-16	Rock Pulp	<0.1 <0.5
FDE01-23-6	Rock Pulp	<0.1 <0.5
FDE01-25-4	Rock Pulp	<0.1 <0.5
FDE01-25-7	Rock Pulp	<0.1 <0.5
FDE01-25-8	Rock Pulp	<0.1 <0.5
FDE01-26-13	Rock Pulp	<0.1 <0.5
FDE01-26-16	Rock Pulp	<0.1 <0.5
FDE01-31-10	Rock Pulp	<0.1 <0.5
FDE01-31-12	Rock Pulp	<0.1 <0.5
FDE01-31-1A	Rock Pulp	0.1 <0.5
FDE01-31-1B	Rock Pulp	0.1 0.5
FDE01-31-3	Rock Pulp	<0.1 <0.5
FDE01-31-4	Rock Pulp	<0.1 <0.5
FDE01-31-6	Rock Pulp	<0.1 <0.5
FDE01-31-7	Rock Pulp	<0.1 <0.5
JC00-082C	Rock Pulp	0.1 <0.5
JEN01-10-2	Rock Pulp	<0.1 <0.5
JEN01-16-11	Rock Pulp	<0.1 <0.5
JEN01-16-4	Rock Pulp	<0.1 <0.5
JEN01-16-8	Rock Pulp	<0.1 <0.5
JEN01-23-12	Rock Pulp	<0.1 <0.5
JEN01-23-8	Rock Pulp	<0.1 <0.5
JEN01-24-3	Rock Pulp	<0.1 <0.5
JEN01-26-5A	Rock Pulp	<0.1 <0.5
JEN01-26-5B	Rock Pulp	<0.1 <0.5
JEN01-26-8A	Rock Pulp	<0.1 <0.5

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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	0.5	
JEN01-27-6	Rock Pulp	52.95	14.55	9.78	6.74	6.98	4.66	0.48	1.03	0.09	0.15	0.017	43	36	2.3	99.72	779	<1	33.6	0.1	14.3
JEN01-32-1A	Rock Pulp	44.12	12.85	11.45	7.98	7.48	1.32	5.19	3.33	0.55	0.14	0.058	154	28	4.3	98.78	8059	3	51.1	4.7	18.2
JEN01-32-1B	Rock Pulp	38.54	9.42	9.66	7.74	15.78	1.70	2.37	2.43	0.36	0.19	0.066	143	33	11.1	99.40	2719	1	39.4	2.8	13.4
JEN01-32-1C	Rock Pulp	39.65	10.82	12.09	9.48	11.41	1.42	1.11	2.66	0.40	0.18	0.101	219	34	10.3	99.63	498	<1	59.5	1.7	17.5
JEN01-32-7	Rock Pulp	64.78	15.46	4.88	2.63	0.96	3.85	2.79	0.96	0.09	0.06	0.018	26	25	3.1	99.59	2586	<1	8.5	2.0	22.0
JEN01-32-8	Rock Pulp	52.74	16.38	8.24	5.14	5.69	4.33	1.08	1.69	0.44	0.11	0.011	55	13	3.9	99.73	521	<1	28.6	1.4	19.6
JEN01-4-4A	Rock Pulp	44.11	15.27	11.30	7.58	6.95	2.46	3.06	0.97	0.11	0.33	0.104	178	42	7.5	99.76	253	<1	73.5	0.9	17.9
JEN01-4-4C	Rock Pulp	44.97	14.46	20.31	2.95	5.57	2.75	1.56	1.90	0.22	0.25	0.007	59	58	4.6	99.55	2564	<1	58.5	3.7	23.4
JEN01-4-7A	Rock Pulp	43.53	12.93	9.37	16.91	6.61	1.30	0.97	0.51	0.04	0.15	0.302	596	37	7.0	99.66	248	<1	79.7	1.2	10.5
JEN01-5-7	Rock Pulp	50.87	14.99	10.11	6.11	8.60	4.47	0.21	1.23	0.12	0.17	0.018	26	34	2.9	99.84	26	<1	36.1	0.3	14.5
JEN01-8-12	Rock Pulp	50.02	15.52	10.34	5.95	9.08	2.66	1.45	1.43	0.13	0.17	0.027	40	39	3.0	99.81	88	<1	42.2	0.7	17.3
JEN02-17-4A	Rock Pulp	61.45	16.05	6.35	3.41	6.75	3.13	0.89	0.62	0.16	0.13	0.009	<20	21	0.9	99.81	607	<1	14.4	0.6	17.1
JEN02-17-4B	Rock Pulp	58.80	17.61	6.46	3.40	6.96	3.30	1.12	0.66	0.14	0.13	0.023	<20	19	1.2	99.79	797	2	14.4	0.8	17.6
JEN02-19-3E	Rock Pulp	66.01	16.34	2.10	1.38	3.64	6.58	0.91	0.42	0.19	0.03	0.008	<20	5	2.2	99.84	311	<1	2.6	1.5	17.9
JEN02-19-5C	Rock Pulp	62.76	16.98	3.99	1.68	3.61	5.17	2.88	0.61	0.27	0.10	0.003	<20	7	1.7	99.76	956	<1	9.6	1.2	18.6
JEN02-9-19	Rock Pulp	73.87	14.97	0.96	0.25	1.33	5.59	1.56	0.05	0.04	0.03	0.014	22	<1	1.3	99.94	669	<1	1.0	0.4	15.7
KLA01-11-12	Rock Pulp	55.05	14.42	10.43	5.12	5.70	5.62	0.40	1.00	0.11	0.19	0.006	21	36	1.8	99.84	77	<1	30.3	0.1	12.6
KLA01-26-8	Rock Pulp	51.92	15.04	8.35	5.88	10.68	2.75	0.15	0.69	0.06	0.13	0.027	46	31	4.2	99.87	41	<1	31.6	0.6	17.1
KLA01-5-8A	Rock Pulp	51.26	16.34	10.73	5.56	7.86	4.66	0.04	0.91	0.07	0.16	<0.002	<20	36	2.3	99.84	28	<1	39.6	<0.1	16.9
MMI01-10-8	Rock Pulp	46.29	17.11	11.03	3.85	7.67	3.33	2.09	1.91	0.22	0.26	0.058	119	37	6.0	99.83	172	2	49.1	1.5	16.7
MMI01-12-3A	Rock Pulp	33.98	12.51	12.97	7.25	25.65	0.01	<0.01	1.82	0.15	0.22	0.017	27	39	5.2	99.79	12	<1	42.4	0.9	9.1
MMI01-1-5	Rock Pulp	74.21	14.24	0.65	0.25	1.21	3.26	4.34	0.05	0.02	0.14	0.005	<20	3	1.6	99.92	801	2	<0.2	4.7	18.2
MMI01-15-4	Rock Pulp	45.58	11.41	11.94	10.01	11.15	2.42	1.19	2.94	0.45	0.16	0.073	143	37	2.3	99.65	286	<1	50.6	1.0	15.6
MMI01-17-2	Rock Pulp	56.99	14.12	8.61	5.64	4.02	5.22	0.19	1.02	0.10	0.24	0.003	<20	27	3.7	99.86	37	<1	22.6	0.1	14.6
MMI01-2-1	Rock Pulp	49.13	15.82	9.91	7.12	10.14	3.00	0.69	1.15	0.09	0.17	0.028	65	36	2.4	99.68	766	2	37.5	0.5	14.2
MMI01-23-19	Rock Pulp	46.67	17.25	10.80	9.12	5.63	2.24	2.52	0.67	0.05	0.18	0.030	154	36	4.5	99.67	1091	1	52.0	1.4	12.8
MMI01-25-10	Rock Pulp	54.39	13.99	9.47	7.23	6.52	4.91	0.10	0.66	0.05	0.16	0.047	94	35	2.3	99.85	27	1	30.5	<0.1	11.1
MMI01-27-6	Rock Pulp	57.27	13.96	4.20	7.59	9.76	3.96	0.10	0.28	0.02	0.09	0.086	127	23	2.5	99.87	31	<1	25.5	0.2	9.5
MMI01-30-3	Rock Pulp	46.61	12.76	8.27	14.89	7.46	1.51	1.45	0.18	0.01	0.16	0.314	664	45	5.9	99.56	1608	<1	72.6	1.5	7.5
MMI01-32-3	Rock Pulp	45.70	13.94	8.18	6.68	20.28	0.56	0.02	1.13	0.08	0.14	0.032	48	35	3.1	99.84	7	<1	33.9	<0.1	10.0

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Project: Stikinia
 Report Date: March 05, 2012

Page: 3 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	4A-4B																			
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm																			
MDL		0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01
JEN01-27-6	Rock Pulp	2.0	0.6	6.3	<1	165.4	<0.1	<0.2	0.1	327	<0.5	64.0	25.7	2.4	8.2	1.29	7.1	2.53	0.83	3.64	0.69
JEN01-32-1A	Rock Pulp	6.4	62.6	93.9	3	342.1	3.9	4.3	1.4	350	0.7	259.6	28.8	46.8	99.3	11.67	45.9	9.14	2.63	7.90	1.11
JEN01-32-1B	Rock Pulp	4.4	39.0	50.9	2	490.2	2.4	3.0	0.8	289	0.8	183.1	20.6	36.7	72.2	8.51	34.5	7.06	2.25	5.75	0.86
JEN01-32-1C	Rock Pulp	4.8	47.7	32.4	1	264.2	3.0	3.8	0.9	317	0.8	199.5	23.0	40.6	82.7	9.63	38.5	7.40	2.22	6.50	0.92
JEN01-32-7	Rock Pulp	5.0	18.1	59.6	4	154.1	1.4	11.9	3.6	169	1.6	184.7	33.6	19.8	47.4	5.61	22.3	5.32	1.32	4.78	1.02
JEN01-32-8	Rock Pulp	3.8	19.6	17.1	1	699.1	1.5	2.3	1.0	164	<0.5	136.2	18.0	16.5	37.0	4.75	21.0	4.18	1.47	3.83	0.67
JEN01-4-4A	Rock Pulp	1.5	3.1	38.2	<1	92.3	0.1	<0.2	0.1	311	1.5	49.3	22.9	2.7	7.0	1.10	6.6	2.08	0.85	2.76	0.60
JEN01-4-4C	Rock Pulp	2.6	4.9	32.6	<1	96.5	0.3	0.3	0.4	515	<0.5	98.1	44.2	4.5	12.1	1.94	10.9	3.86	1.45	5.09	1.18
JEN01-4-7A	Rock Pulp	0.9	2.3	14.0	<1	27.0	<0.1	<0.2	<0.1	224	<0.5	25.4	13.3	1.7	4.6	0.62	3.3	1.00	0.42	1.55	0.36
JEN01-5-7	Rock Pulp	2.0	1.2	2.2	<1	108.0	<0.1	<0.2	<0.1	305	<0.5	81.7	30.9	2.7	9.4	1.65	8.9	3.08	1.21	4.10	0.88
JEN01-8-12	Rock Pulp	2.6	2.0	28.8	<1	105.4	0.2	0.2	0.1	375	<0.5	89.1	35.0	3.8	11.2	1.87	10.0	3.44	1.39	4.41	0.95
JEN02-17-4A	Rock Pulp	4.3	5.1	20.6	1	345.4	0.3	2.0	0.7	130	<0.5	150.1	24.4	11.7	28.1	3.62	16.1	3.78	1.13	3.64	0.72
JEN02-17-4B	Rock Pulp	2.5	5.4	27.6	1	389.4	0.3	2.0	0.7	126	<0.5	106.8	22.0	11.3	26.5	3.25	13.1	3.22	1.07	3.24	0.63
JEN02-19-3E	Rock Pulp	3.7	5.3	19.1	1	1068	0.3	3.3	1.5	58	<0.5	121.2	11.6	11.5	24.9	3.13	12.8	2.81	0.77	2.15	0.36
JEN02-19-5C	Rock Pulp	6.3	10.1	58.7	1	755.9	0.6	6.1	2.5	102	1.0	196.5	19.2	17.1	38.7	4.78	19.6	4.15	1.02	3.33	0.62
JEN02-9-19	Rock Pulp	2.0	1.6	53.2	1	242.4	0.1	0.8	1.0	<8	<0.5	37.3	3.5	4.0	6.9	0.80	2.8	0.70	0.19	0.57	0.11
KLA01-11-12	Rock Pulp	2.0	1.3	4.4	<1	180.6	0.1	<0.2	<0.1	245	<0.5	60.0	36.2	2.4	8.2	1.53	7.9	3.44	1.10	4.30	1.00
KLA01-26-8	Rock Pulp	1.6	0.7	2.7	<1	64.9	<0.1	<0.2	0.1	252	<0.5	43.8	19.2	1.5	5.3	0.86	5.7	1.75	0.68	2.14	0.48
KLA01-5-8A	Rock Pulp	1.6	0.5	0.3	<1	216.1	<0.1	<0.2	0.1	328	<0.5	51.7	18.6	1.9	5.7	1.02	5.6	1.96	0.94	2.31	0.52
MMI01-10-8	Rock Pulp	3.6	15.8	43.4	<1	112.9	1.0	1.6	0.4	253	1.1	142.6	30.4	16.2	32.7	4.36	20.7	4.51	1.60	4.80	0.92
MMI01-12-3A	Rock Pulp	3.5	1.8	0.5	1	11.7	0.2	<0.2	<0.1	410	<0.5	113.0	41.1	3.9	12.7	2.22	12.7	4.28	1.50	5.28	1.12
MMI01-1-5	Rock Pulp	3.3	12.6	157.7	1	160.3	1.2	5.3	4.7	<8	<0.5	55.9	17.9	3.7	8.7	1.01	4.2	1.31	0.44	1.78	0.41
MMI01-15-4	Rock Pulp	5.5	56.0	25.0	1	312.3	3.3	4.5	0.9	314	0.7	216.5	22.4	39.5	84.9	9.91	42.3	7.82	2.31	5.71	0.96
MMI01-17-2	Rock Pulp	2.4	1.3	3.2	1	75.7	0.2	0.2	0.1	270	<0.5	71.9	22.2	2.5	8.7	1.37	7.2	2.70	0.68	3.01	0.67
MMI01-2-1	Rock Pulp	2.3	1.5	9.9	1	561.7	0.1	<0.2	<0.1	283	<0.5	69.7	26.0	2.4	8.8	1.40	8.8	2.98	1.06	3.38	0.74
MMI01-23-19	Rock Pulp	0.7	3.7	37.7	<1	103.0	0.2	0.3	0.1	229	<0.5	22.9	13.3	2.3	5.1	0.78	4.1	1.30	0.49	1.61	0.34
MMI01-25-10	Rock Pulp	1.4	0.8	1.3	<1	96.1	<0.1	<0.2	0.1	302	<0.5	39.2	16.3	1.5	4.2	0.68	3.6	1.40	0.44	1.87	0.41
MMI01-27-6	Rock Pulp	2.2	1.2	1.3	<1	53.7	0.1	0.2	0.2	101	<0.5	98.3	10.4	1.9	5.0	0.65	3.4	0.95	0.33	1.24	0.28
MMI01-30-3	Rock Pulp	0.3	0.1	21.2	<1	34.0	<0.1	<0.2	<0.1	202	<0.5	4.6	10.3	0.3	0.5	0.07	0.6	0.27	0.13	0.68	0.18
MMI01-32-3	Rock Pulp	2.0	1.2	<0.1	<1	142.4	<0.1	<0.2	<0.1	229	<0.5	64.0	24.1	2.5	7.9	1.29	7.4	2.71	0.95	3.27	0.67

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	Unit	MDL	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B Lu	2A Leco	2A Leco	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au	1DX Hg	
				ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppb	ppm										
				0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.5	0.01
JEN01-27-6	Rock Pulp			4.43	0.97	2.84	0.41	2.67	0.40	0.03	<0.02	0.2	18.0	0.3	23	27.3	1.4	<0.1	0.3	<0.1	<0.1	<0.5	<0.01	
JEN01-32-1A	Rock Pulp			5.85	0.96	2.53	0.34	2.04	0.30	0.51	<0.02	1.0	164.2	0.6	71	143.7	0.6	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
JEN01-32-1B	Rock Pulp			4.54	0.81	1.97	0.26	1.62	0.22	2.49	<0.02	0.3	101.8	1.5	52	121.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
JEN01-32-1C	Rock Pulp			4.82	0.90	2.20	0.28	1.69	0.24	1.68	<0.02	0.3	96.9	1.9	82	220.8	0.5	0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
JEN01-32-7	Rock Pulp			6.71	1.32	3.56	0.59	3.97	0.62	0.15	<0.02	0.5	139.2	5.9	72	32.9	1.1	<0.1	0.1	0.6	0.2	8.1	0.02	
JEN01-32-8	Rock Pulp			3.45	0.72	1.72	0.24	1.46	0.23	0.31	0.10	0.3	25.1	1.4	81	46.2	<0.5	0.2	<0.1	<0.1	<0.1	<0.5	0.06	
JEN01-4-4A	Rock Pulp			3.66	0.87	2.46	0.43	2.59	0.41	0.91	<0.02	0.2	208.1	0.2	144	168.6	2.7	0.1	<0.1	<0.1	<0.1	0.8	0.01	
JEN01-4-4C	Rock Pulp			7.84	1.76	4.81	0.79	4.53	0.73	0.31	<0.02	0.7	94.8	0.3	153	59.3	3.7	0.2	0.2	<0.1	<0.1	<0.5	<0.01	
JEN01-4-7A	Rock Pulp			2.41	0.58	1.48	0.26	1.48	0.27	0.07	<0.02	<0.1	78.8	<0.1	45	556.9	<0.5	<0.1	<0.1	<0.1	<0.1	19.8	<0.01	
JEN01-5-7	Rock Pulp			5.27	1.16	3.54	0.54	3.24	0.45	0.04	0.09	0.1	15.8	0.2	44	26.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
JEN01-8-12	Rock Pulp			5.97	1.37	3.61	0.54	3.43	0.55	0.08	<0.02	0.2	66.3	0.6	56	38.4	<0.5	<0.1	<0.1	<0.1	<0.1	1.9	0.01	
JEN02-17-4A	Rock Pulp			4.17	0.92	2.68	0.39	2.68	0.42	0.03	<0.02	0.8	6.2	1.0	32	10.8	0.6	<0.1	<0.1	<0.1	<0.1	0.6	0.04	
JEN02-17-4B	Rock Pulp			3.32	0.83	2.31	0.35	2.11	0.35	0.06	<0.02	0.4	4.5	1.1	39	9.6	0.6	<0.1	<0.1	<0.1	<0.1	2.5	0.02	
JEN02-19-3E	Rock Pulp			2.04	0.47	1.13	0.20	1.47	0.20	0.33	0.03	1.0	8.9	2.2	6	9.7	10.0	<0.1	<0.1	<0.1	<0.1	0.7	0.13	
JEN02-19-5C	Rock Pulp			3.57	0.73	2.17	0.35	2.12	0.35	0.13	<0.02	0.9	22.5	4.2	30	8.5	2.0	<0.1	<0.1	<0.1	<0.1	0.9	0.03	
JEN02-9-19	Rock Pulp			0.62	0.10	0.32	0.05	0.31	0.05	0.05	<0.02	<0.1	1.0	7.7	31	20.7	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.03	
KLA01-11-12	Rock Pulp			6.50	1.55	4.43	0.67	4.27	0.67	0.05	0.38	0.2	18.5	0.4	33	15.6	<0.5	<0.1	<0.1	<0.1	<0.1	2.4	<0.01	
KLA01-26-8	Rock Pulp			3.11	0.74	2.05	0.31	2.04	0.34	0.18	0.16	0.4	60.9	0.5	48	40.7	0.7	<0.1	<0.1	<0.1	<0.1	1.6	0.01	
KLA01-5-8A	Rock Pulp			3.23	0.72	2.02	0.32	1.85	0.34	0.06	<0.02	0.8	40.8	0.1	24	14.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
MMI01-10-8	Rock Pulp			5.88	1.13	3.07	0.48	3.11	0.43	0.36	<0.02	1.3	104.4	1.6	123	118.4	1.9	0.3	0.2	<0.1	<0.1	0.7	<0.01	
MMI01-12-3A	Rock Pulp			6.81	1.52	4.74	0.68	4.60	0.64	0.04	<0.02	0.3	48.3	0.4	42	36.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
MMI01-1-5	Rock Pulp			2.82	0.62	1.92	0.33	2.21	0.37	0.07	<0.02	0.2	0.9	4.5	26	0.8	1.2	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
MMI01-15-4	Rock Pulp			4.58	0.85	2.16	0.32	1.95	0.26	0.06	<0.02	0.2	86.1	0.4	66	108.1	<0.5	<0.1	<0.1	<0.1	<0.1	1.2	<0.01	
MMI01-17-2	Rock Pulp			4.28	0.97	2.95	0.47	2.70	0.45	<0.02	0.73	0.2	21.1	0.3	74	11.5	<0.5	<0.1	<0.1	<0.1	<0.1	0.8	<0.01	
MMI01-2-1	Rock Pulp			4.27	1.04	2.92	0.47	2.63	0.43	0.02	<0.02	0.2	69.3	0.5	19	37.0	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.01	
MMI01-23-19	Rock Pulp			2.35	0.58	1.44	0.24	1.43	0.26	0.03	<0.02	<0.1	144.5	0.9	55	141.6	0.5	<0.1	<0.1	<0.1	<0.1	1.0	<0.01	
MMI01-25-10	Rock Pulp			2.97	0.66	1.88	0.29	1.99	0.35	0.04	0.03	0.2	4.6	0.4	17	25.8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	
MMI01-27-6	Rock Pulp			1.83	0.40	1.13	0.20	1.15	0.20	0.09	<0.02	0.1	43.6	0.6	10	78.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.01	
MMI01-30-3	Rock Pulp			1.31	0.41	1.21	0.22	1.46	0.26	0.24	<0.02	<0.1	37.9	<0.1	33	612.4	<0.5	<0.1	<0.1	<0.1	<0.1	0.6	0.01	
MMI01-32-3	Rock Pulp			4.73	0.99	2.88	0.41	2.84	0.43	0.05	<0.02	<0.1	5.8	<0.1	9	19.7	<0.5	<0.1	<0.1	<0.1	<0.1	0.9	<0.01	



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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

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Method	1DX	1DX
Analyte	TI	Se
Unit	ppm	ppm
MDL	0.1	0.5
JEN01-27-6	Rock Pulp	<0.1 <0.5
JEN01-32-1A	Rock Pulp	<0.1 <0.5
JEN01-32-1B	Rock Pulp	<0.1 <0.5
JEN01-32-1C	Rock Pulp	<0.1 <0.5
JEN01-32-7	Rock Pulp	<0.1 <0.5
JEN01-32-8	Rock Pulp	<0.1 <0.5
JEN01-4-4A	Rock Pulp	<0.1 <0.5
JEN01-4-4C	Rock Pulp	<0.1 <0.5
JEN01-4-7A	Rock Pulp	<0.1 <0.5
JEN01-5-7	Rock Pulp	<0.1 <0.5
JEN01-8-12	Rock Pulp	<0.1 <0.5
JEN02-17-4A	Rock Pulp	<0.1 <0.5
JEN02-17-4B	Rock Pulp	0.1 <0.5
JEN02-19-3E	Rock Pulp	<0.1 <0.5
JEN02-19-5C	Rock Pulp	<0.1 <0.5
JEN02-9-19	Rock Pulp	<0.1 <0.5
KLA01-11-12	Rock Pulp	<0.1 <0.5
KLA01-26-8	Rock Pulp	<0.1 <0.5
KLA01-5-8A	Rock Pulp	<0.1 <0.5
MMI01-10-8	Rock Pulp	<0.1 <0.5
MMI01-12-3A	Rock Pulp	<0.1 <0.5
MMI01-1-5	Rock Pulp	<0.1 <0.5
MMI01-15-4	Rock Pulp	<0.1 <0.5
MMI01-17-2	Rock Pulp	<0.1 0.6
MMI01-2-1	Rock Pulp	<0.1 <0.5
MMI01-23-19	Rock Pulp	<0.1 <0.5
MMI01-25-10	Rock Pulp	<0.1 <0.5
MMI01-27-6	Rock Pulp	<0.1 <0.5
MMI01-30-3	Rock Pulp	<0.1 <0.5
MMI01-32-3	Rock Pulp	<0.1 <0.5



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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B											
Analyte		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
Unit		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	0.5
MMI01-4-2	Rock Pulp	47.04	14.19	11.73	7.26	10.52	2.32	1.65	1.53	0.13	0.19	0.039	57	44	3.2	99.80	61	<1	42.5	1.3	16.2
MMI01-4-3	Rock Pulp	44.61	15.70	11.65	8.48	13.19	1.78	0.26	1.21	0.09	0.18	0.028	62	44	2.6	99.77	56	1	42.5	0.1	16.5
MMI01-5-7	Rock Pulp	48.75	16.31	10.51	5.66	8.56	4.49	0.48	1.30	0.11	0.17	0.025	37	37	3.4	99.81	238	<1	33.1	0.4	16.5
MMI01-6-9	Rock Pulp	49.01	17.34	10.28	6.00	2.35	4.23	2.91	2.65	0.66	0.16	<0.002	33	11	3.9	99.53	2411	<1	31.1	0.8	20.5
MMI02-13-7	Rock Pulp	45.89	22.39	3.31	6.86	13.21	1.47	1.90	0.10	<0.01	0.07	0.051	92	23	4.6	99.86	46	<1	21.0	1.5	11.9
MMI02-15-7-4	Rock Pulp	49.69	21.09	9.39	1.95	6.72	3.37	1.84	0.69	0.07	0.20	0.008	35	45	4.8	99.85	116	<1	26.6	0.8	18.7
MMI02-19-5-2	Rock Pulp	61.45	16.28	5.38	2.77	3.56	5.08	2.52	0.55	0.27	0.08	0.004	<20	8	1.8	99.73	1192	<1	10.8	2.4	16.0
MMI02-26-13	Rock Pulp	29.52	0.87	5.63	28.62	0.27	0.02	0.02	<0.01	<0.01	0.08	0.472	1655	8	33.8	99.54	25	<1	81.1	1.7	0.8
MMI02-33-1	Rock Pulp	51.28	14.41	12.61	5.53	8.68	3.31	0.29	1.57	0.15	0.20	0.014	31	36	1.8	99.82	26	<1	38.9	0.1	16.9
MMI02-34-1	Rock Pulp	46.78	14.42	13.43	6.81	9.02	2.95	0.68	1.85	0.16	0.19	0.023	49	40	3.5	99.80	129	1	43.1	0.1	16.3
MMI02-34-2-3	Rock Pulp	51.22	15.90	9.66	4.47	7.48	3.77	1.30	1.10	0.10	0.23	0.017	45	42	4.6	99.82	84	<1	35.4	0.4	15.8
ORO02-19-2	Rock Pulp	64.93	14.98	5.22	2.67	5.55	2.76	2.24	0.49	0.13	0.11	0.008	<20	14	0.6	99.68	1630	2	10.6	2.2	16.5
STJ01-16-10A	Rock Pulp	48.64	15.13	10.66	6.29	12.06	3.46	0.13	1.13	0.10	0.18	0.023	46	37	2.0	99.78	23	<1	35.6	0.4	15.8
STJ01-2-7	Rock Pulp	44.66	15.31	9.47	6.93	18.64	0.42	0.09	0.99	0.11	0.16	0.020	72	37	3.0	99.81	10	<1	35.1	<0.1	14.6
STJ01-4-4	Rock Pulp	53.75	14.24	8.50	8.52	4.99	4.93	0.06	0.85	0.12	0.13	0.025	86	31	3.6	99.76	158	<1	24.7	0.1	15.5
STJ01-4-5	Rock Pulp	51.23	14.52	9.94	7.32	7.79	4.66	0.25	1.16	0.10	0.17	0.033	73	39	2.6	99.80	28	<1	36.3	<0.1	12.6
STJ01-5-15	Rock Pulp	48.92	16.76	10.33	6.70	7.49	3.81	0.21	0.84	0.08	0.15	0.024	114	29	4.4	99.71	719	<1	38.0	0.3	13.2
STJ01-6-7	Rock Pulp	53.20	14.36	10.82	5.70	6.80	4.83	0.16	1.34	0.13	0.16	0.002	24	35	2.3	99.80	43	1	34.6	0.1	14.2
STJ01-7-7	Rock Pulp	48.89	14.96	11.43	6.86	7.88	4.43	0.16	1.33	0.12	0.19	0.016	42	39	3.5	99.78	35	<1	37.1	0.1	16.5
STJ02-11-1D	Rock Pulp	64.14	15.80	5.43	2.35	5.72	2.98	1.69	0.51	0.17	0.12	0.005	37	14	0.8	99.72	1202	2	10.2	1.2	15.9
YME01-23-2	Rock Pulp	41.89	13.15	11.39	6.42	9.69	2.57	2.99	1.85	0.30	0.09	0.033	93	31	9.4	99.77	229	<1	36.5	2.6	15.6
YME01-31-7C	Rock Pulp	70.70	12.28	4.82	1.02	0.98	6.25	0.54	0.86	0.13	0.03	0.012	<20	5	1.9	99.47	2275	<1	11.2	0.4	21.2



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 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	4A-4B																			
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm																			
MDL		0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	
MMI01-4-2	Rock Pulp	2.5	1.3	29.5	<1	90.4	<0.1	<0.2	0.2	396	<0.5	92.4	34.4	2.9	10.1	1.81	9.9	3.80	1.31	4.59	0.98
MMI01-4-3	Rock Pulp	1.9	0.9	4.5	<1	173.9	<0.1	<0.2	0.1	368	<0.5	52.6	26.2	2.8	8.0	1.44	7.5	2.85	1.07	3.45	0.75
MMI01-5-7	Rock Pulp	2.6	1.4	10.2	<1	190.9	0.2	<0.2	0.1	294	<0.5	75.3	27.5	3.2	9.1	1.61	8.9	3.10	1.11	3.87	0.82
MMI01-6-9	Rock Pulp	6.9	53.8	34.3	2	232.1	3.0	5.5	1.6	183	1.5	271.8	26.5	43.5	91.7	10.40	40.5	8.52	2.46	6.82	1.08
MMI02-13-7	Rock Pulp	<0.1	0.2	34.4	<1	337.7	<0.1	<0.2	<0.1	83	<0.5	2.1	2.8	0.7	0.7	0.12	0.8	0.26	0.20	0.37	0.08
MMI02-15-7-4	Rock Pulp	1.4	0.6	37.7	<1	280.4	<0.1	0.4	<0.1	467	0.6	48.8	18.0	5.5	7.1	1.60	8.5	2.44	0.86	2.71	0.53
MMI02-19-5-2	Rock Pulp	2.6	4.4	59.8	1	724.3	0.2	2.0	1.1	117	<0.5	82.8	7.6	11.9	25.7	3.33	14.2	3.10	0.91	2.07	0.33
MMI02-26-13	Rock Pulp	<0.1	0.3	1.0	<1	5.7	<0.1	<0.2	<0.1	41	3.4	0.7	0.1	0.3	0.1	0.02	<0.3	<0.05	<0.02	<0.05	<0.01
MMI02-33-1	Rock Pulp	2.9	2.9	4.0	1	137.0	0.2	0.3	0.1	378	<0.5	98.7	33.3	4.2	12.2	1.94	10.4	3.39	1.35	4.42	0.93
MMI02-34-1	Rock Pulp	3.2	3.4	10.2	1	155.7	0.3	0.4	<0.1	389	<0.5	107.4	38.6	4.9	14.1	2.26	10.9	4.18	1.53	5.01	1.06
MMI02-34-2-3	Rock Pulp	1.7	0.9	16.7	<1	148.2	<0.1	<0.2	0.3	298	<0.5	59.1	24.4	2.9	6.7	1.27	7.1	2.43	0.95	3.32	0.66
ORO02-19-2	Rock Pulp	3.4	8.9	59.2	1	362.8	0.5	4.4	1.3	82	<0.5	127.3	18.7	15.3	30.0	3.81	13.9	2.97	0.84	2.92	0.50
STJ01-16-10A	Rock Pulp	2.0	1.5	1.8	<1	255.1	<0.1	0.2	<0.1	291	<0.5	66.6	26.4	2.5	7.3	1.38	7.1	2.46	0.93	3.57	0.70
STJ01-2-7	Rock Pulp	2.1	1.6	1.0	<1	30.6	<0.1	<0.2	<0.1	249	<0.5	65.9	23.4	2.4	8.1	1.33	7.3	2.42	0.88	3.23	0.61
STJ01-4-4	Rock Pulp	1.9	1.6	0.5	<1	92.5	<0.1	0.6	0.4	276	<0.5	70.9	20.2	4.9	12.1	1.90	9.3	2.75	1.05	3.23	0.58
STJ01-4-5	Rock Pulp	2.1	1.0	3.5	<1	90.9	<0.1	<0.2	<0.1	272	<0.5	61.8	23.7	2.3	6.8	1.18	6.4	2.36	0.87	3.54	0.65
STJ01-5-15	Rock Pulp	1.2	2.8	3.0	<1	147.3	0.1	<0.2	<0.1	187	<0.5	35.3	14.5	2.1	5.9	0.93	5.0	1.59	0.62	2.06	0.40
STJ01-6-7	Rock Pulp	2.3	1.8	2.2	<1	79.5	<0.1	<0.2	0.1	341	<0.5	76.4	29.3	2.5	8.5	1.51	8.1	2.92	1.06	4.22	0.80
STJ01-7-7	Rock Pulp	2.4	1.3	1.9	<1	93.7	<0.1	<0.2	0.1	330	<0.5	74.4	29.7	3.2	9.6	1.69	9.3	2.94	1.09	4.03	0.77
STJ02-11-1D	Rock Pulp	2.2	8.0	37.3	2	519.2	0.7	3.8	1.7	101	<0.5	86.8	16.4	11.8	27.5	3.16	13.2	2.90	0.92	3.02	0.49
YME01-23-2	Rock Pulp	3.4	10.5	38.8	<1	169.9	0.6	0.9	0.3	253	<0.5	120.4	22.0	11.0	27.6	3.96	17.6	5.04	1.69	5.06	0.80
YME01-31-7C	Rock Pulp	17.5	184.4	13.1	4	497.4	9.9	13.3	2.3	22	4.4	744.3	69.9	116.8	214.5	23.76	84.3	15.30	3.24	12.72	2.12



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Project: Stikinia
 Report Date: March 05, 2012

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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	Analyte	Unit	MDL	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B Lu	2A Leco	2A Leco	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au	1DX Hg
				ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppb	ppm									
				0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01
MMI01-4-2	Rock Pulp			5.68	1.36	3.99	0.59	3.78	0.58	0.08	<0.02	0.2	28.3	0.3	56	39.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
MMI01-4-3	Rock Pulp			5.02	1.04	3.20	0.46	2.91	0.41	0.11	0.05	0.1	90.9	0.1	26	30.2	0.8	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
MMI01-5-7	Rock Pulp			5.11	1.14	3.41	0.52	2.96	0.48	0.09	<0.02	0.3	45.3	0.4	76	35.3	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
MMI01-6-9	Rock Pulp			5.30	1.03	2.53	0.36	2.02	0.28	0.03	<0.02	1.5	17.6	4.0	108	32.7	<0.5	0.2	<0.1	<0.1	<0.1	<0.5	<0.01
MMI02-13-7	Rock Pulp			0.50	0.13	0.38	0.05	0.27	0.05	0.03	<0.02	<0.1	62.7	<0.1	9	75.9	<0.5	<0.1	<0.1	<0.1	<0.1	1.1	0.04
MMI02-15-7-4	Rock Pulp			3.47	0.76	2.14	0.29	1.70	0.27	0.57	<0.02	0.2	176.1	7.6	111	34.8	1.7	0.1	<0.1	<0.1	<0.1	0.6	0.02
MMI02-19-5-2	Rock Pulp			1.63	0.26	0.66	0.10	0.62	0.11	0.09	<0.02	0.6	16.8	4.1	47	9.7	0.9	<0.1	<0.1	<0.1	<0.1	1.2	0.02
MMI02-26-13	Rock Pulp			<0.05	<0.02	0.03	<0.01	<0.05	<0.01	9.10	0.04	<0.1	24.6	<0.1	12	1789	21.3	<0.1	3.8	<0.1	0.1	3.9	>100
MMI02-33-1	Rock Pulp			5.74	1.34	3.71	0.63	3.64	0.60	0.04	0.13	0.8	60.4	0.3	42	23.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.45
MMI02-34-1	Rock Pulp			6.27	1.53	4.22	0.65	4.09	0.59	0.03	0.02	1.6	68.7	0.4	79	35.4	<0.5	0.2	<0.1	<0.1	<0.1	<0.5	0.20
MMI02-34-2-3	Rock Pulp			4.00	0.83	2.76	0.37	2.63	0.36	0.54	<0.02	<0.1	65.3	0.6	74	33.7	0.6	<0.1	<0.1	<0.1	<0.1	2.2	3.67
ORO02-19-2	Rock Pulp			3.00	0.65	1.85	0.30	1.84	0.31	0.07	<0.02	1.2	6.6	1.5	38	8.3	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.07
STJ01-16-10A	Rock Pulp			4.40	0.94	2.94	0.43	2.67	0.44	0.04	0.04	0.3	58.5	0.3	28	25.8	<0.5	0.1	<0.1	<0.1	<0.1	<0.5	0.39
STJ01-2-7	Rock Pulp			4.03	0.96	2.54	0.39	2.43	0.40	0.07	<0.02	0.1	57.2	0.3	14	14.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.03
STJ01-4-4	Rock Pulp			3.36	0.76	2.33	0.34	2.17	0.37	0.03	0.12	0.2	52.6	0.6	51	75.1	0.7	<0.1	<0.1	<0.1	<0.1	1.6	0.11
STJ01-4-5	Rock Pulp			4.04	0.94	2.57	0.37	2.78	0.39	0.02	0.08	0.1	61.4	0.2	62	46.6	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
STJ01-5-15	Rock Pulp			2.49	0.60	1.74	0.25	1.68	0.25	0.20	<0.02	<0.1	255.0	0.2	65	105.9	<0.5	<0.1	<0.1	<0.1	<0.1	4.2	0.07
STJ01-6-7	Rock Pulp			5.22	1.12	3.54	0.48	3.36	0.50	0.04	<0.02	<0.1	87.7	0.3	14	11.0	1.0	<0.1	<0.1	<0.1	<0.1	<0.5	0.01
STJ01-7-7	Rock Pulp			4.44	1.06	3.36	0.46	3.13	0.47	0.14	<0.02	0.2	61.3	0.3	68	33.8	<0.5	0.1	<0.1	<0.1	<0.1	<0.5	0.04
STJ02-11-1D	Rock Pulp			2.77	0.56	1.78	0.26	1.64	0.29	0.03	<0.02	0.9	12.5	1.6	41	29.2	0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.03
YME01-23-2	Rock Pulp			4.67	0.86	2.28	0.32	1.81	0.30	1.69	<0.02	0.2	6.8	0.8	69	74.2	1.0	0.3	<0.1	<0.1	<0.1	<0.5	0.01
YME01-31-7C	Rock Pulp			12.34	2.61	7.24	1.08	6.82	1.04	0.12	0.16	0.8	6.3	4.4	39	4.3	0.8	0.6	<0.1	<0.1	<0.1	<0.5	0.08



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Project: Stikinia
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CERTIFICATE OF ANALYSIS

VAN12000736.1

Method	1DX	1DX
Analyte	TI	Se
Unit	ppm	ppm
MDL	0.1	0.5
MMI01-4-2	Rock Pulp	<0.1 <0.5
MMI01-4-3	Rock Pulp	<0.1 <0.5
MMI01-5-7	Rock Pulp	<0.1 <0.5
MMI01-6-9	Rock Pulp	<0.1 <0.5
MMI02-13-7	Rock Pulp	<0.1 <0.5
MMI02-15-7-4	Rock Pulp	<0.1 <0.5
MMI02-19-5-2	Rock Pulp	<0.1 <0.5
MMI02-26-13	Rock Pulp	<0.1 5.1
MMI02-33-1	Rock Pulp	<0.1 <0.5
MMI02-34-1	Rock Pulp	<0.1 <0.5
MMI02-34-2-3	Rock Pulp	<0.1 <0.5
ORO02-19-2	Rock Pulp	0.3 <0.5
STJ01-16-10A	Rock Pulp	<0.1 <0.5
STJ01-2-7	Rock Pulp	<0.1 <0.5
STJ01-4-4	Rock Pulp	<0.1 <0.5
STJ01-4-5	Rock Pulp	<0.1 <0.5
STJ01-5-15	Rock Pulp	<0.1 <0.5
STJ01-6-7	Rock Pulp	<0.1 <0.5
STJ01-7-7	Rock Pulp	<0.1 <0.5
STJ02-11-1D	Rock Pulp	0.1 <0.5
YME01-23-2	Rock Pulp	<0.1 <0.5
YME01-31-7C	Rock Pulp	<0.1 <0.5



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QUALITY CONTROL REPORT

VAN12000736.1

Method		4A-4B																			
Analyte		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
Unit		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	0.5
JEN01-32-1C	Rock Pulp	39.65	10.82	12.09	9.48	11.41	1.42	1.11	2.66	0.40	0.18	0.101	219	34	10.3	99.63	498	<1	59.5	1.7	17.5
JEN02-17-4A	Rock Pulp	61.45	16.05	6.35	3.41	6.75	3.13	0.89	0.62	0.16	0.13	0.009	<20	21	0.9	99.81	607	<1	14.4	0.6	17.1
Pulp Duplicates																					
FDE01-31-1A	Rock Pulp	38.92	13.33	12.08	7.33	9.38	1.92	2.09	4.19	2.09	0.19	0.022	87	19	7.8	99.38	1120	5	40.2	28.2	22.9
REP FDE01-31-1A	QC																				
JEN01-23-12	Rock Pulp	48.19	15.16	10.34	6.74	11.13	2.27	0.34	1.23	0.11	0.16	0.032	58	37	4.1	99.80	25	<1	37.6	0.6	15.9
REP JEN01-23-12	QC	48.25	15.06	10.33	6.76	11.14	2.28	0.34	1.24	0.11	0.16	0.033	57	37	4.1	99.80	25	<1	38.9	0.7	16.6
JEN01-32-1B	Rock Pulp	38.54	9.42	9.66	7.74	15.78	1.70	2.37	2.43	0.36	0.19	0.066	143	33	11.1	99.40	2719	1	39.4	2.8	13.4
REP JEN01-32-1B	QC																				
KLA01-11-12	Rock Pulp	55.05	14.42	10.43	5.12	5.70	5.62	0.40	1.00	0.11	0.19	0.006	21	36	1.8	99.84	77	<1	30.3	0.1	12.6
REP KLA01-11-12	QC																				
MMI01-27-6	Rock Pulp	57.27	13.96	4.20	7.59	9.76	3.96	0.10	0.28	0.02	0.09	0.086	127	23	2.5	99.87	31	<1	25.5	0.2	9.5
REP MMI01-27-6	QC	56.93	14.07	4.24	7.68	9.90	3.93	0.09	0.27	0.02	0.08	0.085	128	23	2.5	99.87	27	2	26.6	0.1	9.6
MMI02-15-7-4	Rock Pulp	49.69	21.09	9.39	1.95	6.72	3.37	1.84	0.69	0.07	0.20	0.008	35	45	4.8	99.85	116	<1	26.6	0.8	18.7
REP MMI02-15-7-4	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	58.44	14.04	7.52	3.32	6.28	3.66	2.11	0.69	0.83	0.39	0.540	38	24	1.9	99.72	531	2	27.7	7.2	18.7



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Report Date: March 05, 2012

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QUALITY CONTROL REPORT

VAN12000736.1

Method	Analyte	4A-4B																			
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
Unit		ppm																			
MDL		0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01
JEN01-32-1C	Rock Pulp	4.8	47.7	32.4	1	264.2	3.0	3.8	0.9	317	0.8	199.5	23.0	40.6	82.7	9.63	38.5	7.40	2.22	6.50	0.92
JEN02-17-4A	Rock Pulp	4.3	5.1	20.6	1	345.4	0.3	2.0	0.7	130	<0.5	150.1	24.4	11.7	28.1	3.62	16.1	3.78	1.13	3.64	0.72
Pulp Duplicates																					
FDE01-31-1A	Rock Pulp	13.7	165.4	48.5	3	1037	9.3	15.5	3.6	252	2.1	646.5	38.6	149.4	298.4	33.32	123.2	20.56	6.00	14.13	1.86
REP FDE01-31-1A	QC																				
JEN01-23-12	Rock Pulp	2.2	1.4	7.1	<1	89.4	<0.1	<0.2	0.2	308	<0.5	68.5	28.1	2.7	8.7	1.48	7.7	2.74	1.09	3.93	0.74
REP JEN01-23-12	QC	1.7	1.4	7.5	<1	89.7	<0.1	<0.2	0.2	316	<0.5	67.2	28.2	2.6	8.4	1.47	8.0	2.81	1.09	4.24	0.77
JEN01-32-1B	Rock Pulp	4.4	39.0	50.9	2	490.2	2.4	3.0	0.8	289	0.8	183.1	20.6	36.7	72.2	8.51	34.5	7.06	2.25	5.75	0.86
REP JEN01-32-1B	QC																				
KLA01-11-12	Rock Pulp	2.0	1.3	4.4	<1	180.6	0.1	<0.2	<0.1	245	<0.5	60.0	36.2	2.4	8.2	1.53	7.9	3.44	1.10	4.30	1.00
REP KLA01-11-12	QC																				
MMI01-27-6	Rock Pulp	2.2	1.2	1.3	<1	53.7	0.1	0.2	0.2	101	<0.5	98.3	10.4	1.9	5.0	0.65	3.4	0.95	0.33	1.24	0.28
REP MMI01-27-6	QC	2.8	1.1	1.3	<1	55.3	<0.1	0.3	0.2	98	<0.5	102.6	10.6	1.9	5.1	0.66	3.7	1.07	0.32	1.14	0.26
MMI02-15-7-4	Rock Pulp	1.4	0.6	37.7	<1	280.4	<0.1	0.4	<0.1	467	0.6	48.8	18.0	5.5	7.1	1.60	8.5	2.44	0.86	2.71	0.53
REP MMI02-15-7-4	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	9.6	22.0	28.8	15	439.9	7.1	10.3	17.0	213	13.9	298.2	33.4	13.3	28.5	3.48	14.8	2.98	0.89	3.05	0.53



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QUALITY CONTROL REPORT

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Method	Analyte	Unit	MDL	4A-4B Dy	4A-4B Ho	4A-4B Er	4A-4B Tm	4A-4B Yb	4A-4B Lu	2A Leco TOT/C	2A Leco TOT/S	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au	1DX Hg
				ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppb	ppm									
				0.05	0.02	0.03	0.01	0.05	0.01	0.02	0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01
JEN01-32-1C	Rock Pulp			4.82	0.90	2.20	0.28	1.69	0.24	1.68	<0.02	0.3	96.9	1.9	82	220.8	0.5	0.1	<0.1	<0.1	<0.1	<0.5	<0.01
JEN02-17-4A	Rock Pulp			4.17	0.92	2.68	0.39	2.68	0.42	0.03	<0.02	0.8	6.2	1.0	32	10.8	0.6	<0.1	<0.1	<0.1	<0.1	0.6	0.04
Pulp Duplicates																							
FDE01-31-1A	Rock Pulp			8.89	1.47	3.59	0.48	2.82	0.38	0.65	<0.02	3.4	28.0	7.8	152	89.9	2.8	0.1	0.1	<0.1	0.1	<0.5	0.03
REP FDE01-31-1A	QC											3.1	27.5	7.6	149	86.9	2.5	<0.1	0.1	<0.1	<0.1	<0.5	0.02
JEN01-23-12	Rock Pulp			4.79	1.01	3.11	0.46	3.09	0.46	0.05	0.07	0.8	68.3	0.4	54	51.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
REP JEN01-23-12	QC			4.82	1.09	3.29	0.48	3.04	0.46														
JEN01-32-1B	Rock Pulp			4.54	0.81	1.97	0.26	1.62	0.22	2.49	<0.02	0.3	101.8	1.5	52	121.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
REP JEN01-32-1B	QC									2.49	<0.02												
KLA01-11-12	Rock Pulp			6.50	1.55	4.43	0.67	4.27	0.67	0.05	0.38	0.2	18.5	0.4	33	15.6	<0.5	<0.1	<0.1	<0.1	<0.1	2.4	<0.01
REP KLA01-11-12	QC											0.1	18.5	0.5	33	15.1	<0.5	<0.1	<0.1	<0.1	<0.1	1.2	<0.01
MMI01-27-6	Rock Pulp			1.83	0.40	1.13	0.20	1.15	0.20	0.09	<0.02	0.1	43.6	0.6	10	78.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	0.01
REP MMI01-27-6	QC			1.73	0.34	1.18	0.17	1.20	0.18														
MMI02-15-7-4	Rock Pulp			3.47	0.76	2.14	0.29	1.70	0.27	0.57	<0.02	0.2	176.1	7.6	111	34.8	1.7	0.1	<0.1	<0.1	<0.1	0.6	0.02
REP MMI02-15-7-4	QC									0.59	0.02												
Reference Materials																							
STD DS8	Standard											14.8	125.6	145.4	340	43.5	26.2	2.7	5.4	7.3	2.1	97.1	0.19
STD DS8	Standard											13.6	114.7	127.2	319	40.4	23.6	2.3	3.9	6.6	1.8	106.1	0.22
STD DS8	Standard											14.4	115.3	137.1	337	40.7	25.4	2.5	4.0	6.9	2.3	124.0	0.21
STD GS311-1	Standard									0.95	2.23												
STD GS311-1	Standard									0.99	2.26												
STD GS311-1	Standard									0.99	2.20												
STD GS910-4	Standard									2.60	8.18												
STD GS910-4	Standard									2.69	8.13												
STD GS910-4	Standard									2.64	8.38												
STD OREAS45CA	Standard											1.0	550.3	23.3	66	281.9	4.3	<0.1	0.1	0.2	0.3	43.4	0.03
STD OREAS45CA	Standard											0.9	517.1	23.6	64	257.2	3.7	0.1	0.1	0.2	0.3	41.9	0.04
STD OREAS45CA	Standard											0.8	508.6	22.2	62	246.9	3.6	<0.1	<0.1	0.2	0.3	39.3	0.03
STD SO-18	Standard			2.95	0.64	1.98	0.29	1.78	0.30														



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Method Analyte	Unit	1DX	1DX
		TI	Se
MDL		ppm	ppm
		0.1	0.5
JEN01-32-1C	Rock Pulp	<0.1	<0.5
JEN02-17-4A	Rock Pulp	<0.1	<0.5
Pulp Duplicates			
FDE01-31-1A	Rock Pulp	0.1	<0.5
REP FDE01-31-1A	QC	0.1	<0.5
JEN01-23-12	Rock Pulp	<0.1	<0.5
REP JEN01-23-12	QC		
JEN01-32-1B	Rock Pulp	<0.1	<0.5
REP JEN01-32-1B	QC		
KLA01-11-12	Rock Pulp	<0.1	<0.5
REP KLA01-11-12	QC	<0.1	<0.5
MMI01-27-6	Rock Pulp	<0.1	<0.5
REP MMI01-27-6	QC		
MMI02-15-7-4	Rock Pulp	<0.1	<0.5
REP MMI02-15-7-4	QC		
Reference Materials			
STD DS8	Standard	5.4	5.0
STD DS8	Standard	5.5	5.2
STD DS8	Standard	5.9	5.2
STD GS311-1	Standard		
STD GS311-1	Standard		
STD GS311-1	Standard		
STD GS910-4	Standard		
STD GS910-4	Standard		
STD GS910-4	Standard		
STD OREAS45CA	Standard	<0.1	<0.5
STD OREAS45CA	Standard	<0.1	<0.5
STD OREAS45CA	Standard	<0.1	<0.5
STD SO-18	Standard		



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		4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B										
		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	Ga
		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	0.5
STD SO-18	Standard	58.22	14.11	7.61	3.36	6.26	3.68	2.13	0.69	0.83	0.39	0.542	39	24	1.9	99.72	523	<1	25.9	7.1	17.6
STD SO-18	Standard	58.09	14.12	7.61	3.39	6.42	3.64	2.12	0.69	0.84	0.40	0.544	36	24	1.9	99.76	540	2	26.6	7.1	17.3
STD SO-18	Standard	58.36	14.17	7.48	3.36	6.34	3.63	2.10	0.68	0.81	0.39	0.543	28	24	1.9	99.77	514	1	26.5	6.9	17.1
STD SO-18	Standard	58.19	14.16	7.53	3.35	6.29	3.71	2.14	0.69	0.82	0.39	0.548	44	24	1.9	99.73	519	2	27.6	6.9	18.1
STD SO-18	Standard	58.14	14.12	7.54	3.35	6.36	3.70	2.14	0.69	0.81	0.40	0.550	50	24	1.9	99.72	523	<1	27.7	7.0	18.1
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	44	25			514		26.2	7.1	17.6
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	<0.5
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	<0.5
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<20	<1	0.0	<0.01	<1	<1	<0.2	<0.1	<0.5
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	66.57	15.96	3.68	1.11	3.62	3.58	3.74	0.42	0.19	0.10	<0.002	<20	6	0.7	99.71	1202	3	4.7	4.2	19.4
G1	Prep Blank	67.45	15.67	3.32	1.07	3.64	3.72	3.40	0.38	0.19	0.10	<0.002	<20	5	0.8	99.73	1020	1	4.7	4.0	19.5



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QUALITY CONTROL REPORT

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		4A-4B																			
		Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb
		ppm																			
		0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01
STD SO-18	Standard	9.5	20.8	27.9	15	445.7	7.0	9.7	16.8	209	14.6	291.2	33.2	13.3	28.5	3.41	14.6	3.03	0.88	2.99	0.52
STD SO-18	Standard	9.5	20.9	27.7	16	434.0	7.3	10.6	16.8	213	15.1	287.3	31.4	12.1	27.5	3.33	13.5	3.04	0.86	2.77	0.53
STD SO-18	Standard	9.7	20.0	27.4	15	420.5	7.0	10.2	16.7	202	15.0	281.2	30.5	11.7	25.9	3.22	13.0	2.82	0.84	2.67	0.51
STD SO-18	Standard	9.6	20.4	28.2	15	410.9	7.1	10.4	16.5	197	14.3	281.7	31.6	12.5	26.7	3.45	14.0	2.98	0.84	3.00	0.50
STD SO-18	Standard	9.1	20.5	28.4	15	405.2	7.0	10.3	16.8	198	15.2	283.1	31.1	12.7	27.6	3.48	13.9	2.99	0.89	3.20	0.51
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-18 Expected		9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45	14	3	0.89	2.93	0.53
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	4.1	24.5	134.8	2	907.8	1.5	9.3	3.5	60	1.4	152.8	17.5	40.4	73.4	7.67	30.7	4.94	1.26	3.68	0.57
G1	Prep Blank	4.3	24.2	123.6	2	908.9	1.3	10.4	3.3	56	<0.5	161.2	16.0	39.9	75.7	8.02	29.0	4.72	1.20	3.45	0.54



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QUALITY CONTROL REPORT

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		4A-4B Dy ppm	4A-4B Ho ppm	4A-4B Er ppm	4A-4B Tm ppm	4A-4B Yb ppm	4A-4B Lu ppm	2A Leco TOT/C %	2A Leco TOT/S %	1DX Mo ppm	1DX Cu ppm	1DX Pb ppm	1DX Zn ppm	1DX Ni ppm	1DX As ppm	1DX Cd ppm	1DX Sb ppm	1DX Bi ppm	1DX Ag ppm	1DX Au ppb	1DX Hg ppm
STD SO-18	Standard	2.84	0.68	1.90	0.31	1.69	0.30			0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01
STD SO-18	Standard	2.92	0.64	1.97	0.29	1.91	0.31														
STD SO-18	Standard	2.78	0.61	1.83	0.28	1.79	0.27														
STD SO-18	Standard	2.87	0.61	1.76	0.29	1.85	0.25														
STD SO-18	Standard	2.92	0.65	1.81	0.29	1.83	0.27														
STD GS311-1 Expected								1.02	2.35												
STD GS910-4 Expected								2.65	8.27												
STD SO-18 Expected		3	0.62	1.84	0.27	1.79	0.27														
STD DS8 Expected										13.44	110	123	312	38.1	26	2.38	4.8	6.67	1.69	107	0.192
STD OREAS45CA Expected										1	494	20	60	240	3.8	0.1	0.13	0.19	0.275	43	0.03
BLK	Blank							<0.02	<0.02												
BLK	Blank							<0.02	<0.02												
BLK	Blank							<0.02	<0.02												
BLK	Blank									<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank									<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01														
BLK	Blank									<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01
Prep Wash																					
G1	Prep Blank	2.93	0.67	1.97	0.33	2.03	0.34	<0.02	<0.02	0.8	3.4	3.4	51	3.1	5.1	<0.1	<0.1	<0.1	<0.1	3.9	<0.01
G1	Prep Blank	2.75	0.58	1.79	0.28	1.79	0.32	0.02	<0.02	0.4	2.4	3.2	46	2.1	3.1	<0.1	<0.1	<0.1	<0.1	3.2	<0.01



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QUALITY CONTROL REPORT

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		1DX TI ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard		
STD GS311-1	Expected		
STD GS910-4	Expected		
STD SO-18	Expected		
STD DS8	Expected	5.4	5.23
STD OREAS45CA	Expected	0.07	0.5
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank	<0.1	<0.5
BLK	Blank		
BLK	Blank	<0.1	<0.5
BLK	Blank		
BLK	Blank		
BLK	Blank	<0.1	<0.5
Prep Wash			
G1	Prep Blank	0.3	<0.5
G1	Prep Blank	0.3	<0.5