



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Teck Resources Limited

Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3 Canada

Submitted By: Sandra Bayliss
Receiving Lab: Canada-Vancouver
Received: August 02, 2011
Report Date: August 31, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003601.1

CLIENT JOB INFORMATION

Project: 203400
Shipment ID: SUP_001
P.O. Number
Number of Samples: 182

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of analytical data.

SAMPLE DISPOSAL

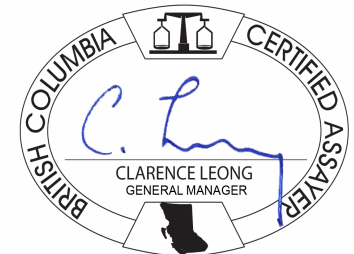
STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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: Teck Resources Limited
Suite 3300, 550 Burrard St.
Vancouver BC V6C 0B3
Canada

CC: Rupa Mukherjee
Randy Farmer



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.



Acme Analytical Laboratories (Vancouver) Ltd.
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 Suite 3300, 550 Burrard St.
 Vancouver BC V6C 0B3 Canada

Project: 203400
 Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
1077696	Rock	1.72	0.009	0.38	92.97	7.02	252.6	845	57.8	32.6	1313	7.36	2.2	0.1	13.7	0.3	18.7	0.56	<0.02	0.69	196

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CERTIFICATE OF ANALYSIS

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Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
1077696	2.87	0.043	4.0	61.0	3.11	34.0	0.392	<20	3.59	0.038	0.27	9.8	15.4	0.10	0.94	<5	0.7	0.30	13.3	2.66
Rock																				

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CERTIFICATE OF ANALYSIS

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Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1077696	0.2	0.03	0.03	15.6	0.5	<0.05	0.9	10.34	10.8	0.05	3	0.2	57.6	<10	<2
Rock															

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Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
1077697	Rock	1.80	0.023	0.74	162.4	153.7	947.5	5298	41.2	48.5	646	8.37	2.7	<0.1	19.3	0.5	7.4	4.31	0.04	1.07	271
1077698	Rock	2.02	0.014	0.24	88.37	6.22	110.7	853	33.9	30.5	496	4.86	0.8	<0.1	14.5	0.6	5.7	0.20	<0.02	0.12	106
1077699	Rock	1.37	<0.005	0.35	78.87	3.38	48.8	459	26.6	22.5	349	3.29	1.1	<0.1	7.8	0.5	5.0	0.11	0.02	0.06	85
1077700	Rock	1.20	0.050	44.03	2014	7.03	407.4	13075	38.5	50.9	1750	10.37	1.9	0.4	54.2	0.5	46.8	0.63	<0.02	5.35	255
1077751	Rock	1.72	0.044	1.86	269.5	4.49	45.4	1375	23.5	28.6	316	4.23	2.0	<0.1	46.5	0.1	26.3	0.18	0.04	2.49	62
1077752	Rock Pulp	0.07	0.296	270.9	3414	10.27	65.2	1027	20.3	14.3	410	4.29	12.1	2.2	325.5	8.2	79.0	0.32	0.20	1.10	108
1077753	Rock	1.05	0.065	11.80	272.9	13.32	51.1	2036	21.1	26.2	311	5.33	1.3	<0.1	102.2	0.5	121.8	0.23	<0.02	9.18	107
1077754	Rock	1.13	0.017	0.43	94.43	6.88	36.9	905	11.1	17.2	204	3.04	1.5	<0.1	29.9	0.4	45.3	0.08	0.02	3.02	68
1077755	Rock	1.26	0.013	0.78	19.27	0.69	7.2	293	2.7	6.7	80	1.12	1.4	<0.1	12.7	<0.1	6.2	0.03	0.02	1.04	9
1077756	Rock	1.29	0.014	1.61	103.0	4.51	69.5	594	25.4	24.2	241	3.95	1.0	<0.1	19.5	0.5	8.4	0.07	<0.02	0.16	139
1077757	Rock	2.00	0.086	16.23	139.6	17.61	319.1	2136	29.9	35.9	784	7.31	1.3	<0.1	68.3	0.6	10.0	0.38	<0.02	1.06	148
1077758	Rock	0.79	0.057	0.92	53.14	7.61	67.9	459	31.2	33.0	423	5.64	1.5	<0.1	68.4	0.5	5.1	0.10	0.03	0.24	114
1077759	Rock	1.20	<0.005	0.16	6.20	3.98	34.4	80	4.4	2.6	158	0.72	3.6	0.5	1.8	1.2	25.1	0.02	0.17	0.11	6
1077760	Rock	1.47	0.086	30.20	2079	8.49	75.5	4641	36.1	16.9	353	6.01	2.7	0.4	71.7	0.5	62.0	0.68	0.48	3.96	160
1077761	Rock	1.52	0.184	23.69	773.9	9.57	62.1	5751	37.5	27.3	173	7.38	18.9	0.5	306.0	0.4	6.4	0.39	1.77	13.81	151
1077762	Rock	1.68	0.345	23.97	1536	8.94	10.7	3467	20.7	15.4	57	3.77	19.2	0.3	794.3	0.5	6.2	0.07	0.42	9.88	39
1077763	Rock	1.80	0.106	12.18	1141	3.44	29.8	2561	27.1	13.8	174	4.62	12.8	0.4	150.3	0.7	7.1	0.08	0.47	10.77	113
1077764	Rock	1.12	0.038	0.41	127.9	19.36	438.3	1755	99.2	29.4	916	4.85	4.9	<0.1	44.6	0.5	8.3	0.76	<0.02	1.21	109
1077765	Rock	1.27	<0.005	0.09	11.23	4.11	31.4	108	4.1	2.8	152	0.67	4.6	0.4	10.1	1.2	26.6	0.05	0.17	0.16	6
1077766	Rock	1.36	0.057	0.61	211.2	5.46	155.5	2320	13.5	21.6	479	6.57	1.1	0.1	40.1	1.0	5.9	0.39	0.04	0.65	118
1077767	Rock	1.04	0.026	0.28	227.7	3.63	75.8	1687	32.7	54.0	537	5.51	1.5	0.1	25.6	0.8	8.1	0.20	0.04	0.97	86
1077768	Rock	1.64	0.024	0.25	124.5	3.19	96.9	604	21.4	28.2	495	5.11	0.7	<0.1	26.1	0.7	5.6	0.07	<0.02	0.36	148
1077769	Rock	1.85	0.120	1.16	76.55	8.19	296.5	728	5.2	30.7	429	6.82	0.8	0.2	92.6	1.1	29.9	0.20	<0.02	0.49	156
1077770	Rock	1.82	0.096	0.39	122.8	6.72	384.1	803	4.9	28.7	389	5.76	0.6	0.1	54.9	1.0	20.9	0.33	<0.02	0.70	128
1077771	Rock	2.27	0.084	0.17	201.5	30.30	114.2	1341	53.4	31.6	382	3.14	1.9	<0.1	139.1	0.3	9.6	0.67	0.04	0.79	74
1077772	Rock Pulp	0.07	1.427	2.08	33.47	16.41	43.4	48	18.6	2.4	54	2.80	1258	1.8	1426	7.1	24.7	0.07	15.39	0.34	15
1077773	Rock	1.12	0.579	17.46	472.7	17.19	866.7	4000	15.7	26.7	451	8.37	13.7	0.1	798.7	0.8	2.0	7.33	0.21	3.56	153
1077774	Rock	1.41	0.117	6.46	2064	27.99	34.3	4644	32.0	172.0	140	11.52	27.6	<0.1	147.7	0.7	1.3	0.18	0.22	1.70	184
1077775	Rock	1.50	0.051	3.35	359.6	6.98	38.3	1921	17.9	43.5	460	5.54	26.6	0.1	68.7	0.7	10.7	0.19	0.28	0.80	120
1077776	Rock	1.21	0.015	0.13	36.66	10.70	66.6	428	14.1	16.2	340	2.71	3.0	0.4	24.1	1.9	54.1	0.20	0.04	0.84	42

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Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1077697	Rock	0.29	0.044	3.4	52.9	3.47	24.9	0.171	<20	3.38	0.029	0.16	0.3	29.9	<0.02	0.68	37	0.6	0.19	15.7	1.41
1077698	Rock	0.89	0.048	4.8	31.8	2.56	24.2	0.127	<20	2.71	0.114	0.13	0.8	9.5	0.04	0.48	<5	0.4	0.12	8.2	1.67
1077699	Rock	0.88	0.040	3.4	20.5	1.30	29.2	0.088	<20	1.60	0.099	0.06	<0.1	7.1	<0.02	0.44	<5	0.4	0.05	5.6	0.87
1077700	Rock	1.00	0.070	6.6	25.6	3.30	49.0	0.638	<20	5.63	0.255	3.81	0.9	28.2	1.22	1.43	<5	1.6	0.36	18.3	10.85
1077751	Rock	0.96	0.036	1.2	10.7	0.52	11.9	0.134	<20	1.08	0.039	0.02	0.3	3.0	<0.02	1.62	<5	1.1	0.79	3.7	0.21
1077752	Rock Pulp	1.28	0.095	18.1	51.9	1.21	167.0	0.171	<20	1.73	0.162	0.55	0.7	5.2	0.25	0.45	52	3.1	0.13	7.3	3.44
1077753	Rock	1.78	0.043	5.4	25.3	0.61	112.6	0.083	<20	2.73	0.153	0.13	0.7	6.2	0.10	1.60	<5	0.9	1.01	7.2	1.50
1077754	Rock	1.00	0.032	4.7	8.5	0.35	3.9	0.061	<20	1.29	0.066	0.02	1.5	4.0	<0.02	0.77	<5	0.3	0.31	3.8	0.30
1077755	Rock	0.11	0.003	<0.5	2.9	0.07	1.0	0.006	<20	0.21	0.019	<0.01	0.2	0.6	<0.02	0.19	<5	0.3	0.62	0.7	0.05
1077756	Rock	0.65	0.041	3.7	26.5	1.61	82.4	0.111	<20	2.07	0.103	0.79	<0.1	8.3	0.29	0.31	<5	0.4	0.06	5.9	6.48
1077757	Rock	1.43	0.057	5.9	8.9	2.18	67.2	0.271	<20	3.09	0.039	0.88	1.1	11.3	0.23	2.68	5	0.5	0.28	10.1	3.78
1077758	Rock	0.53	0.044	2.6	8.7	1.63	32.6	0.185	<20	1.95	0.059	0.08	0.3	6.8	0.02	1.40	<5	0.4	0.08	7.6	1.12
1077759	Rock	0.69	0.021	7.1	5.5	0.18	49.0	0.036	<20	0.48	0.055	0.28	0.1	0.5	0.24	0.02	<5	<0.1	<0.02	2.1	5.53
1077760	Rock	1.61	0.057	10.9	46.8	2.11	77.8	0.171	<20	3.81	0.346	1.67	7.6	13.7	0.50	3.42	14	1.7	4.33	15.0	3.30
1077761	Rock	0.17	0.063	2.2	47.6	2.08	52.4	0.138	<20	1.75	0.051	1.65	3.3	17.9	0.46	5.83	34	2.5	6.14	9.4	3.39
1077762	Rock	0.16	0.061	1.7	12.3	0.47	23.0	0.021	<20	0.59	0.059	0.36	0.5	2.5	0.09	3.66	33	2.4	2.56	3.0	0.56
1077763	Rock	0.21	0.058	8.1	31.6	1.40	60.1	0.076	<20	1.13	0.063	0.92	2.8	10.3	0.25	4.28	23	2.0	5.41	7.8	1.75
1077764	Rock	2.17	0.160	5.6	87.1	1.80	122.5	0.316	<20	2.81	0.051	0.68	0.8	5.7	0.16	0.80	8	0.2	0.08	8.0	2.93
1077765	Rock	0.75	0.021	7.1	10.8	0.20	51.4	0.035	<20	0.46	0.058	0.30	0.2	0.5	0.24	0.03	9	<0.1	<0.02	2.2	5.39
1077766	Rock	1.63	0.077	7.2	57.6	1.79	8.4	0.208	<20	2.91	0.093	0.06	0.2	7.8	0.04	0.73	<5	1.6	0.30	9.9	1.06
1077767	Rock	1.38	0.065	5.2	30.7	0.98	11.3	0.094	<20	1.69	0.134	0.07	0.1	6.7	0.03	1.98	<5	2.1	0.28	6.4	0.42
1077768	Rock	0.91	0.055	5.8	47.1	1.53	68.9	0.184	<20	2.15	0.085	0.30	0.4	9.2	0.10	0.68	<5	0.5	0.09	7.6	1.72
1077769	Rock	1.23	0.096	8.7	2.7	1.26	162.2	0.271	<20	3.34	0.119	1.41	0.5	15.8	0.29	0.75	<5	0.4	<0.02	13.1	4.71
1077770	Rock	0.95	0.088	5.7	1.6	1.07	126.7	0.207	<20	2.60	0.100	1.04	0.4	14.5	0.23	1.25	9	0.6	<0.02	11.3	3.74
1077771	Rock	1.05	0.035	3.2	107.3	1.37	15.5	0.135	<20	1.50	0.092	0.09	7.9	5.7	<0.02	0.70	<5	0.7	0.75	5.3	0.39
1077772	Rock Pulp	0.01	0.020	18.9	41.6	0.03	86.3	<0.001	<20	0.66	0.019	0.25	0.2	4.7	0.10	<0.02	41	0.7	<0.02	2.3	0.96
1077773	Rock	0.50	0.056	5.4	7.8	1.80	17.4	0.297	<20	2.26	0.040	0.21	4.1	5.6	0.08	2.24	50	2.6	2.69	11.6	1.75
1077774	Rock	0.19	0.060	2.3	10.6	0.44	5.4	0.156	<20	1.66	0.025	0.13	1.0	15.2	<0.02	7.39	<5	1.8	1.60	9.2	0.40
1077775	Rock	1.46	0.061	7.0	7.3	0.91	18.4	0.231	<20	1.42	0.110	0.32	25.5	7.5	0.15	1.25	<5	1.1	0.62	7.7	1.91
1077776	Rock	2.06	0.073	15.9	24.6	0.95	48.2	0.132	<20	2.32	0.186	0.65	1.5	4.8	0.21	1.30	<5	0.4	0.34	6.7	2.71



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Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1077697	Rock	<0.1	0.03	<0.02	7.7	0.7	<0.05	1.0	14.39	10.5	0.09	<1	0.3	72.3	<10	7
1077698	Rock	<0.1	0.06	<0.02	7.1	0.2	<0.05	0.7	8.01	14.5	<0.02	2	<0.1	43.0	<10	8
1077699	Rock	<0.1	0.04	<0.02	7.5	0.3	<0.05	1.4	6.92	9.4	<0.02	3	<0.1	15.1	<10	7
1077700	Rock	0.3	0.08	0.06	200.7	0.8	<0.05	2.9	16.71	18.5	0.11	10	0.2	25.6	<10	<2
1077751	Rock	0.2	0.05	0.12	1.6	0.2	<0.05	1.1	3.77	3.4	<0.02	2	0.4	4.2	<10	<2
1077752	Rock Pulp	0.1	0.10	0.10	47.6	3.6	<0.05	5.6	11.61	39.2	0.13	7	0.7	22.1	*	<2
1077753	Rock	0.3	0.05	0.03	14.3	0.3	<0.05	0.7	8.30	15.1	0.05	2	<0.1	9.6	<10	3
1077754	Rock	0.1	0.03	0.05	1.1	0.3	<0.05	0.7	5.53	12.8	0.02	<1	0.1	7.0	<10	<2
1077755	Rock	<0.1	<0.02	0.03	0.2	<0.1	<0.05	0.2	0.71	1.2	<0.02	<1	<0.1	0.8	<10	<2
1077756	Rock	0.1	0.02	0.02	33.5	0.2	<0.05	0.9	6.63	10.8	0.02	2	<0.1	21.8	<10	6
1077757	Rock	0.1	0.04	0.04	31.4	0.3	<0.05	1.1	9.75	17.1	0.07	3	0.2	34.5	<10	2
1077758	Rock	<0.1	0.07	0.08	3.8	0.1	<0.05	2.4	5.99	7.9	<0.02	2	<0.1	23.7	<10	<2
1077759	Rock	<0.1	0.42	0.05	23.5	<0.1	<0.05	13.4	1.11	15.3	<0.02	<1	<0.1	12.3	<10	<2
1077760	Rock	0.5	0.42	0.08	128.8	1.4	<0.05	13.3	6.17	23.1	0.14	18	1.6	33.4	<10	<2
1077761	Rock	0.2	1.08	0.04	128.1	1.1	<0.05	35.8	6.58	6.1	0.09	12	0.2	31.2	<10	<2
1077762	Rock	<0.1	0.62	<0.02	24.2	0.3	<0.05	20.2	5.46	5.3	0.05	6	0.2	12.1	<10	<2
1077763	Rock	0.2	0.83	<0.02	73.2	1.1	<0.05	31.0	8.96	19.9	0.16	9	0.3	34.8	<10	<2
1077764	Rock	<0.1	0.04	0.02	26.2	0.2	<0.05	0.9	4.34	14.2	0.03	<1	0.3	30.9	<10	<2
1077765	Rock	<0.1	0.50	0.06	24.3	0.1	<0.05	14.3	1.13	14.5	<0.02	2	<0.1	12.7	<10	<2
1077766	Rock	0.1	0.06	0.06	2.9	0.6	<0.05	1.7	11.17	19.9	0.03	<1	0.2	34.2	<10	<2
1077767	Rock	<0.1	0.06	0.06	3.1	0.7	<0.05	1.3	12.00	14.1	0.04	3	0.4	6.8	<10	<2
1077768	Rock	0.1	0.04	0.05	12.9	0.4	<0.05	1.4	10.04	16.7	0.04	<1	0.1	24.8	<10	<2
1077769	Rock	0.2	0.06	0.05	50.1	0.9	<0.05	1.7	17.96	26.3	0.08	4	0.3	24.9	<10	<2
1077770	Rock	0.2	0.10	0.03	39.7	0.9	<0.05	2.4	13.76	17.2	0.10	<1	0.4	16.6	<10	<2
1077771	Rock	0.1	0.03	<0.02	5.1	0.3	<0.05	0.8	6.11	8.7	0.02	2	0.1	18.4	<10	7
1077772	Rock Pulp	<0.1	0.15	<0.02	13.0	0.9	<0.05	9.8	4.10	41.8	0.03	<1	0.8	5.0	<10	<2
1077773	Rock	0.2	0.08	0.12	13.1	0.5	<0.05	2.5	9.03	16.1	0.31	7	<0.1	24.2	<10	<2
1077774	Rock	0.1	0.07	0.09	9.5	0.5	<0.05	1.6	10.04	6.7	0.05	<1	0.3	33.0	<10	<2
1077775	Rock	0.5	0.09	0.06	15.8	0.8	<0.05	1.5	12.44	19.1	0.05	3	0.2	6.1	<10	<2
1077776	Rock	0.1	0.26	0.05	34.6	0.3	<0.05	8.2	8.13	39.0	0.02	2	0.7	17.0	<10	<2

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Project: 203400
 Report Date: August 31, 2011

Page: 7 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	
1077777	Rock	0.82	0.007	0.57	17.07	3.42	132.3	88	55.7	20.3	556	4.08	1.3	0.1	6.3	0.4	28.0	0.14	0.05	0.27	128
1077778	Rock	0.60	0.011	0.56	29.32	34.06	222.4	1584	63.6	23.1	795	5.44	1.7	0.2	7.3	0.6	22.0	0.53	0.04	0.32	140
1077779	Rock	1.56	0.024	0.85	102.6	7.42	13.6	1141	3.5	8.5	201	1.60	4.9	0.2	26.7	0.5	8.9	0.17	0.04	1.87	9
1077780	Rock	1.24	0.026	1.96	200.6	7.97	13.6	1362	7.8	12.3	201	1.86	5.1	0.2	26.6	0.5	8.4	0.18	0.04	3.51	9
1077781	Rock	1.74	0.515	4.25	4194	23.06	355.3	15255	59.3	186.9	335	11.26	0.9	<0.1	487.3	0.3	1.2	0.97	0.09	4.46	80
1077782	Rock	1.40	0.444	20.39	297.4	12.04	137.6	2716	26.0	38.9	473	8.06	0.9	0.2	328.7	1.0	7.7	0.53	0.04	18.29	75
1077783	Rock	1.65	0.294	2.77	297.6	8.54	558.8	5572	12.4	360.2	592	12.73	1.5	0.2	190.2	1.2	18.9	0.76	0.02	17.46	155
1077784	Rock	1.29	0.005	0.17	11.19	4.56	36.8	135	4.1	3.7	178	0.75	5.6	0.4	4.8	1.3	28.0	0.04	0.24	0.46	7
1077785	Rock	1.90	0.108	1.81	172.9	3.79	120.1	1354	13.0	33.0	357	6.57	0.9	0.2	75.2	1.5	19.1	0.11	<0.02	2.40	154
1077786	Rock	2.21	1.228	3.92	196.8	527.1	3225	6786	7.1	47.1	299	9.74	169.3	<0.1	744.0	0.3	3.3	21.00	0.54	2.91	51
1077787	Rock	2.66	<0.005	0.17	3.03	7.51	49.9	144	3.4	3.0	293	0.95	4.2	0.2	14.2	0.7	23.1	0.19	0.03	0.32	5
1077788	Rock	2.45	0.264	6.45	226.1	3.88	20.7	1917	5.2	6.5	61	2.55	16.6	0.1	139.9	0.3	8.5	0.05	0.40	12.88	22
1077789	Rock	1.89	0.006	0.10	15.72	6.12	92.7	64	13.9	8.0	474	1.83	1.2	0.2	9.6	1.0	23.9	0.21	0.03	0.25	34
1077790	Rock	1.54	<0.005	0.56	7.95	4.16	25.6	228	4.9	3.4	154	1.07	4.4	0.2	13.6	0.7	12.7	0.13	0.02	0.99	7
1077791	Rock Pulp	0.07	0.370	265.7	3486	11.54	68.9	1086	20.8	15.0	413	4.43	12.7	2.5	323.0	9.3	94.5	<0.01	0.32	1.43	110
1077792	Rock	2.47	<0.005	<0.01	25.37	25.32	377.3	769	30.1	6.3	387	1.93	1.0	0.2	4.7	1.3	6.6	1.58	<0.02	1.31	26
1077793	Rock	1.86	0.011	1.81	27.86	2.10	53.2	526	6.8	6.6	362	1.81	1.2	0.3	10.6	0.9	12.7	0.60	0.03	0.59	13
1077681	Rock	1.29	0.055	0.91	303.1	7.68	197.6	1380	30.0	50.6	817	7.11	4.7	<0.1	43.5	0.6	6.4	0.82	0.13	0.38	104
1077682	Rock	3.22	0.006	0.21	124.7	2.61	63.2	163	32.6	29.5	539	4.34	1.4	<0.1	8.2	0.5	6.6	0.11	0.03	0.07	95
1077683	Rock	1.28	0.211	2.41	198.8	4.55	78.9	703	44.6	54.7	591	7.85	2.3	<0.1	136.2	0.3	4.7	0.20	0.14	0.77	185
1077684	Rock	1.08	<0.005	0.12	10.07	4.47	40.4	102	4.2	2.8	170	0.76	4.9	0.4	10.0	1.3	27.3	0.04	0.22	0.15	7
1077685	Rock	1.00	0.012	0.10	57.64	1.30	107.7	102	44.6	42.8	1108	9.31	1.6	<0.1	15.6	0.6	14.7	0.05	<0.02	0.16	255
1077686	Rock	1.47	0.026	0.38	123.7	6.83	103.9	343	55.1	35.9	933	6.52	2.7	<0.1	29.9	0.4	23.9	0.19	0.25	1.05	196
1077687	Rock	1.35	0.035	0.22	131.9	7.32	100.6	405	57.9	35.5	876	6.42	4.1	<0.1	21.2	0.5	20.5	0.20	0.06	1.31	188
1077688	Rock	1.81	0.064	1.01	145.0	4.79	193.0	214	34.8	49.5	980	11.17	5.6	<0.1	32.3	0.5	33.5	0.07	0.97	0.49	519
1077689	Rock	1.94	0.184	1.50	234.4	23.75	40.0	2469	8.6	12.5	560	5.41	8.1	<0.1	263.0	0.1	6.0	0.10	0.55	0.62	17
1077690	Rock	1.41	0.079	1.20	1155	164.8	275.7	5395	5.7	28.6	486	12.56	2.2	0.1	65.0	1.2	4.7	1.04	0.21	1.05	21
1077691	Rock Pulp	0.07	0.356	277.3	3528	11.44	66.7	1097	21.9	14.7	424	4.54	13.0	2.5	340.7	9.5	92.8	<0.01	0.29	1.43	115
1077692	Rock	1.91	2.591	46.16	496.8	100.4	316.2	6826	13.2	131.4	366	17.72	12.8	0.2	1503	0.6	2.9	3.13	0.43	1.44	43
1077693	Rock	1.33	0.210	0.54	181.3	28.88	150.4	1715	42.9	45.6	701	7.74	2.0	<0.1	175.1	0.7	16.9	0.17	<0.02	1.15	217

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Project: 203400
 Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1077777	Rock	1.55	0.038	4.3	282.1	3.09	99.4	0.307	<20	3.70	0.083	2.09	6.3	7.3	0.50	0.10	<5	0.3	0.05	9.5	8.78
1077778	Rock	1.55	0.057	6.6	344.5	3.98	162.3	0.376	<20	4.54	0.075	3.04	23.7	8.2	0.74	0.33	10	0.6	0.09	11.6	11.98
1077779	Rock	0.80	0.021	3.4	6.0	0.37	8.6	0.040	<20	1.18	0.090	0.19	4.3	0.9	0.07	0.74	<5	0.6	0.27	4.5	0.68
1077780	Rock	0.62	0.021	4.3	8.2	0.28	6.4	0.033	<20	0.99	0.091	0.19	2.4	0.8	0.07	1.03	<5	0.8	0.30	3.5	0.63
1077781	Rock	0.48	0.019	4.5	92.9	2.48	26.1	0.176	<20	2.16	0.047	0.65	56.7	4.9	0.37	7.78	10	15.4	1.80	7.1	5.14
1077782	Rock	0.93	0.066	8.0	5.1	0.92	16.8	0.128	<20	1.61	0.099	0.08	0.6	8.6	0.07	3.35	7	2.5	2.05	5.7	0.38
1077783	Rock	0.74	0.088	12.8	23.0	2.45	66.2	0.348	<20	3.23	0.076	0.82	0.7	13.8	0.22	5.47	<5	2.4	1.44	14.0	3.07
1077784	Rock	0.77	0.020	7.6	10.1	0.21	55.0	0.037	<20	0.52	0.063	0.33	0.2	0.5	0.26	0.05	<5	0.1	0.03	2.4	5.59
1077785	Rock	0.64	0.117	15.1	24.6	1.93	273.6	0.246	<20	2.63	0.104	1.50	0.3	14.4	0.43	1.03	6	1.5	0.51	10.5	7.19
1077786	Rock	0.25	0.027	3.9	9.6	0.62	11.3	0.078	<20	0.89	0.016	0.04	0.5	6.0	<0.02	7.66	168	1.3	0.11	5.1	0.21
1077787	Rock	0.54	0.028	3.4	3.8	0.69	49.2	0.050	<20	1.53	0.141	0.49	0.1	0.4	0.29	0.04	<5	0.3	<0.02	4.4	2.26
1077788	Rock	0.06	0.024	<0.5	9.8	0.18	42.5	0.002	<20	0.31	0.052	0.13	3.2	0.6	<0.02	1.10	9	0.8	5.07	3.1	0.12
1077789	Rock	1.29	0.051	9.3	32.5	1.15	41.7	0.111	<20	1.62	0.041	0.18	0.3	2.4	0.04	0.08	<5	<0.1	<0.02	6.7	0.37
1077790	Rock	0.66	0.031	5.1	8.2	0.16	118.6	0.002	<20	0.49	0.051	0.14	<0.1	0.6	0.04	0.28	<5	0.1	0.04	2.3	0.59
1077791	Rock Pulp	1.31	0.106	20.9	50.6	1.24	178.7	0.189	<20	1.81	0.172	0.56	0.8	5.6	0.26	0.46	41	3.3	0.15	8.3	3.71
1077792	Rock	0.62	0.048	10.4	42.8	0.91	42.9	0.061	<20	1.17	0.070	0.10	0.4	2.2	0.03	0.08	<5	0.3	0.20	6.7	0.32
1077793	Rock	1.30	0.038	7.6	12.8	1.19	25.8	0.073	<20	1.90	0.014	0.33	0.4	1.0	0.09	0.80	<5	0.4	0.15	6.5	1.34
1077681	Rock	1.42	0.045	5.6	22.5	2.27	13.2	0.096	<20	2.92	0.172	0.04	0.1	10.1	0.02	1.08	12	1.8	0.57	10.3	0.15
1077682	Rock	1.23	0.043	5.0	25.5	1.94	16.1	0.096	<20	2.13	0.122	0.06	0.2	7.2	<0.02	0.47	<5	0.6	0.05	7.5	0.27
1077683	Rock	0.22	0.033	3.4	37.1	2.33	15.6	0.078	<20	2.53	0.056	0.04	0.1	17.5	0.02	2.29	7	1.2	0.18	10.9	0.30
1077684	Rock	0.71	0.020	8.0	9.5	0.22	58.5	0.037	<20	0.55	0.064	0.35	0.4	0.6	0.25	0.04	<5	0.1	<0.02	2.5	5.85
1077685	Rock	1.21	0.053	4.8	51.7	4.33	12.7	0.127	<20	4.30	0.051	0.05	<0.1	27.6	<0.02	0.38	<5	0.6	<0.02	15.4	0.60
1077686	Rock	1.25	0.047	3.2	51.8	2.97	29.0	0.199	<20	3.34	0.062	0.13	2.6	8.9	0.02	0.59	<5	0.5	0.17	11.3	0.58
1077687	Rock	0.92	0.046	3.9	52.7	3.12	23.7	0.232	<20	3.09	0.057	0.09	0.7	9.4	<0.02	0.57	<5	0.6	0.18	11.2	0.53
1077688	Rock	0.81	0.050	5.7	3.7	3.31	9.1	0.147	<20	3.91	0.036	0.01	0.4	10.0	<0.02	0.94	<5	0.8	0.11	18.3	0.29
1077689	Rock	0.43	0.023	1.2	9.5	1.03	15.5	0.068	<20	1.46	0.006	0.13	0.5	1.5	0.07	3.17	<5	1.0	0.56	5.0	1.04
1077690	Rock	0.42	0.122	9.4	2.7	0.91	29.4	0.192	<20	2.56	0.025	0.46	0.8	15.1	0.21	5.93	14	0.9	0.13	14.8	1.48
1077691	Rock Pulp	1.34	0.109	20.8	51.4	1.27	176.7	0.186	<20	1.84	0.177	0.57	0.7	5.7	0.26	0.46	52	3.0	0.11	8.4	3.77
1077692	Rock	0.25	0.049	4.0	2.9	0.76	18.1	0.114	<20	1.79	0.010	0.10	2.7	5.8	0.41	9.55	7	1.1	0.83	9.5	0.73
1077693	Rock	1.18	0.051	6.7	12.5	2.82	137.1	0.384	<20	3.70	0.082	1.61	0.9	11.1	0.40	1.77	<5	0.5	0.27	13.0	4.89

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Project: 203400
 Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1077777	Rock	0.2	<0.02	0.02	84.9	0.6	<0.05	0.7	9.43	11.0	0.03	<1	0.4	40.0	<10	5
1077778	Rock	0.4	<0.02	0.04	115.1	0.4	<0.05	0.7	13.09	16.8	0.03	<1	0.3	50.8	<10	5
1077779	Rock	<0.1	0.22	0.08	11.1	0.1	<0.05	7.8	2.59	7.2	<0.02	<1	0.3	8.0	<10	<2
1077780	Rock	<0.1	0.27	0.05	10.4	0.1	<0.05	8.6	2.91	8.7	<0.02	<1	0.3	6.8	<10	<2
1077781	Rock	0.2	0.06	0.06	31.7	0.5	<0.05	1.9	4.82	11.2	0.12	1	<0.1	21.9	<10	3
1077782	Rock	0.1	0.12	0.04	4.9	0.3	<0.05	3.5	15.66	21.7	0.09	3	0.2	8.7	<10	<2
1077783	Rock	0.2	0.07	0.13	28.6	0.9	<0.05	2.4	23.75	31.2	0.15	<1	0.1	43.4	<10	<2
1077784	Rock	<0.1	0.44	0.04	25.7	0.1	<0.05	14.0	1.20	14.5	<0.02	<1	<0.1	13.1	<10	<2
1077785	Rock	0.2	0.07	0.05	53.7	1.0	<0.05	3.3	21.29	39.0	0.08	1	<0.1	18.5	<10	<2
1077786	Rock	<0.1	0.04	0.09	2.1	0.2	<0.05	1.4	11.46	9.8	0.22	<1	0.7	11.1	<10	<2
1077787	Rock	<0.1	0.34	0.05	35.0	0.1	<0.05	10.2	2.97	9.4	<0.02	<1	0.3	9.9	<10	<2
1077788	Rock	<0.1	0.17	<0.02	5.2	0.2	<0.05	5.0	1.62	1.2	0.11	<1	0.2	4.1	<10	<2
1077789	Rock	<0.1	0.16	0.07	7.5	0.3	<0.05	5.4	7.33	21.3	<0.02	<1	0.4	23.9	<10	<2
1077790	Rock	<0.1	0.17	<0.02	7.3	<0.1	<0.05	5.7	3.82	12.7	<0.02	<1	0.2	5.5	<10	<2
1077791	Rock Pulp	0.1	0.16	0.10	53.0	4.2	<0.05	8.3	13.41	39.9	0.18	9	0.6	22.6	16	<2
1077792	Rock	<0.1	0.27	0.05	4.2	0.3	<0.05	10.3	6.16	24.1	0.02	<1	0.1	19.3	<10	<2
1077793	Rock	<0.1	0.42	0.05	17.5	0.2	<0.05	14.4	5.41	17.5	<0.02	1	1.0	29.4	<10	<2
1077681	Rock	0.2	0.05	<0.02	1.0	0.7	<0.05	1.6	12.60	13.1	0.06	2	0.1	22.1	<10	7
1077682	Rock	<0.1	0.04	<0.02	3.2	0.2	<0.05	1.2	9.53	12.9	0.03	<1	<0.1	22.1	<10	5
1077683	Rock	0.1	0.06	0.03	3.0	0.5	<0.05	4.1	10.20	9.9	0.05	<1	0.3	51.7	<10	10
1077684	Rock	<0.1	0.41	0.05	26.0	<0.1	<0.05	13.8	1.17	15.0	<0.02	<1	<0.1	13.1	<10	<2
1077685	Rock	0.2	0.03	<0.02	3.7	0.7	<0.05	1.4	18.87	12.9	0.06	<1	0.4	92.8	<10	10
1077686	Rock	0.1	0.04	<0.02	6.2	0.3	<0.05	0.8	11.17	8.4	0.03	2	0.5	56.3	<10	<2
1077687	Rock	0.1	0.04	<0.02	4.8	0.4	<0.05	1.3	10.91	10.0	0.03	1	0.3	51.5	<10	<2
1077688	Rock	0.3	0.03	<0.02	0.6	1.3	<0.05	0.9	12.81	13.4	0.05	<1	0.4	65.7	<10	<2
1077689	Rock	<0.1	<0.02	0.10	10.8	0.3	<0.05	0.8	2.89	3.2	<0.02	<1	0.7	27.4	<10	<2
1077690	Rock	0.1	0.10	0.14	29.2	1.2	<0.05	5.4	26.96	24.0	0.05	<1	0.6	67.9	*	<2
1077691	Rock Pulp	<0.1	0.17	0.11	53.3	4.1	<0.05	7.4	13.12	40.5	0.17	10	0.6	23.0	<10	<2
1077692	Rock	0.2	0.27	0.11	8.3	1.4	<0.05	10.6	14.65	10.1	0.21	8	0.2	12.7	<10	<2
1077693	Rock	0.2	<0.02	0.03	62.0	0.6	<0.05	0.9	9.50	17.3	0.06	1	0.2	40.3	<10	3

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 Suite 3300, 550 Burrard St.
 Vancouver BC V6C 0B3 Canada

Project: 203400
 Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
1077694	Rock	1.70	0.082	0.43	787.6	2.45	15.8	2569	37.1	32.7	268	4.70	1.7	<0.1	247.2	<0.1	9.9	0.13	0.06	0.13	9
1077695	Rock	1.29	0.216	8.55	156.7	8.97	236.2	1353	58.1	29.2	763	5.60	3.0	0.2	163.6	0.7	20.4	0.22	<0.02	1.13	213



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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	
1077694	Rock	1.24	0.016	1.5	3.7	0.19	1.6	0.073	<20	0.30	0.007	<0.01	0.3	1.0	0.02	2.79	<5	1.9	0.23	0.8	0.03
1077695	Rock	1.67	0.103	9.3	59.5	1.52	81.5	0.400	<20	3.15	0.098	1.26	2.5	15.3	0.47	1.40	<5	0.5	0.14	12.8	3.34



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CERTIFICATE OF ANALYSIS

VAN11003601.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1077694	Rock	0.1	0.05	0.16	0.1	<0.1	<0.05	1.2	4.04	3.5	<0.02	1	<0.1	1.4	<10	<2
1077695	Rock	0.1	0.06	0.06	67.1	0.5	<0.05	2.6	8.35	22.5	0.05	5	0.3	31.2	<10	<2



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QUALITY CONTROL REPORT

VAN11003601.1

		WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
DUP 1077761	QC		0.168	20.08	730.4	9.07	59.8	5222	35.6	24.8	163	6.83	18.9	0.5	176.5	0.4	5.0	0.43	1.68	11.62	143
1077683	Rock	1.28	0.211	2.41	198.8	4.55	78.9	703	44.6	54.7	591	7.85	2.3	<0.1	136.2	0.3	4.7	0.20	0.14	0.77	185
DUP 1077683	QC		0.192	2.29	199.1	4.35	83.0	680	44.1	56.8	625	8.07	2.2	<0.1	115.0	0.3	4.3	0.17	0.13	0.74	190
Reference Materials																					
STD DS8	Standard			13.16	112.2	119.8	330.2	1838	38.4	7.8	618	2.52	26.2	2.7	102.2	6.9	69.3	2.36	3.40	6.54	42
STD DS8	Standard			12.68	109.6	113.9	330.8	1824	37.4	7.5	622	2.54	26.3	2.6	86.1	6.4	72.6	2.45	3.99	6.14	42
STD DS8	Standard			11.73	104.1	108.3	307.4	1971	35.0	7.0	584	2.27	24.6	2.2	96.8	5.6	60.1	2.21	3.30	4.94	39
STD DS8	Standard			12.79	110.3	123.2	320.6	1637	37.7	7.7	605	2.47	26.7	2.4	87.6	6.6	62.3	2.44	3.53	6.02	40
STD DS8	Standard			13.48	113.8	129.5	344.8	1936	41.2	7.8	645	2.64	29.2	2.9	123.1	7.4	73.7	2.53	4.23	7.18	45
STD DS8	Standard			12.71	108.3	117.7	306.8	2174	35.3	7.0	611	2.44	27.8	2.7	92.4	6.7	64.5	2.46	3.66	5.18	42
STD DS8	Standard			13.61	104.4	130.4	302.8	1822	39.2	7.4	613	2.42	22.6	2.8	109.0	7.1	63.6	2.04	3.77	6.12	41
STD DS8	Standard			13.93	105.5	133.4	315.3	1803	37.8	6.9	613	2.51	23.5	2.8	97.0	6.9	64.8	2.18	3.46	6.55	41
STD OREAS45CA	Standard			0.83	527.2	22.75	67.5	291	255.1	96.4	986	17.05	3.7	1.3	43.6	7.6	18.0	0.13	0.07	0.20	214
STD OREAS45CA	Standard			0.69	488.0	20.34	63.9	273	242.1	88.7	923	15.92	3.7	1.1	38.0	6.5	16.7	0.10	0.06	0.17	209
STD OREAS45CA	Standard			0.73	503.0	20.65	66.4	285	239.7	88.6	917	15.47	3.8	1.1	52.7	6.8	15.2	0.09	0.07	0.16	201
STD OREAS45CA	Standard			0.78	501.6	20.48	64.2	274	237.0	94.3	943	15.69	4.1	1.1	38.2	6.7	14.4	0.10	0.06	0.15	208
STD OREAS45CA	Standard			0.81	537.2	23.70	68.2	292	262.0	95.1	965	16.86	4.3	1.3	43.4	7.9	17.5	0.13	0.10	0.26	218
STD OREAS45CA	Standard			0.74	525.4	19.68	66.8	250	254.1	88.5	918	15.92	3.5	1.2	34.8	6.7	15.0	0.13	0.05	0.15	209
STD OREAS45CA	Standard			0.85	510.6	20.13	60.4	261	253.9	89.1	917	15.84	3.1	1.2	56.0	6.6	13.7	0.08	0.09	0.17	211
STD OREAS45CA	Standard			0.73	525.4	21.48	64.1	258	252.5	93.7	936	16.63	3.0	1.2	38.2	7.4	14.8	0.09	<0.02	0.17	209
STD OXH82	Standard		1.400																		
STD OXH82	Standard		1.240																		
STD OXH82	Standard		1.378																		
STD OXH82	Standard		1.252																		
STD OXH82	Standard		1.300																		
STD OXH82	Standard		1.177																		
STD OXH82	Standard		1.376																		
STD OXH82	Standard		1.205																		
STD OXH82	Standard		1.267																		

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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %	1F Na %	1F K %	1F W ppm	1F Sc ppm	1F Ti ppm	1F S %	1F Hg ppb	1F Se ppm	1F Te ppm	1F Ga ppm	1F Cs ppm
DUP 1077761	QC	0.15	0.063	2.2	49.2	2.03	53.7	0.136	<20	1.67	0.040	1.59	2.5	17.5	0.45	5.45	20	2.7	5.36	9.3	3.41
1077683	Rock	0.22	0.033	3.4	37.1	2.33	15.6	0.078	<20	2.53	0.056	0.04	0.1	17.5	0.02	2.29	7	1.2	0.18	10.9	0.30
DUP 1077683	QC	0.21	0.033	3.3	36.9	2.41	15.8	0.077	<20	2.58	0.051	0.04	0.1	17.6	<0.02	2.34	<5	1.2	0.19	11.2	0.31
Reference Materials																					
STD DS8	Standard	0.70	0.083	15.0	116.2	0.62	298.6	0.117	<20	0.89	0.085	0.41	2.6	2.1	5.48	0.17	190	5.5	4.74	4.7	2.39
STD DS8	Standard	0.73	0.087	15.1	115.9	0.62	320.9	0.119	<20	0.90	0.084	0.41	2.4	2.4	4.97	0.17	178	5.3	5.37	4.5	2.50
STD DS8	Standard	0.66	0.079	12.9	108.2	0.57	270.2	0.101	<20	0.85	0.080	0.38	2.3	2.1	4.76	0.15	161	4.5	4.63	4.4	2.23
STD DS8	Standard	0.69	0.082	14.5	114.0	0.61	277.2	0.109	<20	0.88	0.081	0.40	2.3	2.2	5.13	0.17	198	5.4	5.00	4.9	2.45
STD DS8	Standard	0.74	0.086	16.3	123.5	0.65	322.5	0.115	<20	0.96	0.089	0.42	2.6	2.1	5.61	0.18	200	5.4	5.47	5.1	2.64
STD DS8	Standard	0.71	0.081	14.7	113.8	0.61	295.9	0.099	<20	0.88	0.083	0.41	3.3	2.1	5.16	0.16	235	5.2	5.10	4.6	2.50
STD DS8	Standard	0.71	0.072	15.4	123.4	0.61	266.9	0.112	<20	0.93	0.088	0.40	2.4	2.2	5.49	0.16	210	5.0	5.21	4.8	2.39
STD DS8	Standard	0.69	0.080	14.8	123.7	0.61	291.4	0.113	<20	0.90	0.086	0.41	2.8	2.2	5.95	0.16	246	5.3	5.07	4.8	2.52
STD OREAS45CA	Standard	0.46	0.043	18.1	719.9	0.16	191.0	0.152	<20	3.63	0.015	0.07	<0.1	38.7	0.07	0.03	38	0.3	0.05	20.5	1.22
STD OREAS45CA	Standard	0.41	0.039	17.1	645.8	0.15	183.0	0.131	<20	3.68	0.016	0.07	<0.1	39.0	0.07	0.03	27	0.3	0.06	18.8	1.13
STD OREAS45CA	Standard	0.41	0.042	15.0	765.3	0.14	159.4	0.126	<20	3.46	0.015	0.07	<0.1	36.1	0.07	0.02	15	0.4	0.03	18.5	1.18
STD OREAS45CA	Standard	0.42	0.040	16.2	724.7	0.14	154.1	0.130	<20	3.55	0.015	0.07	<0.1	38.1	0.09	0.03	22	0.5	0.08	20.0	1.02
STD OREAS45CA	Standard	0.44	0.044	18.5	763.3	0.15	181.8	0.145	<20	3.89	0.016	0.07	<0.1	39.7	0.08	0.03	32	0.6	0.06	21.3	1.33
STD OREAS45CA	Standard	0.42	0.038	15.8	747.6	0.14	172.3	0.117	<20	3.80	0.016	0.07	<0.1	36.5	0.07	0.03	29	0.5	<0.02	19.4	1.17
STD OREAS45CA	Standard	0.41	0.037	15.5	780.2	0.14	151.2	0.136	<20	3.89	0.007	0.07	<0.1	35.7	0.12	<0.02	37	0.5	0.07	18.4	1.13
STD OREAS45CA	Standard	0.46	0.039	16.2	766.8	0.15	164.5	0.128	<20	3.60	0.017	0.07	<0.1	37.8	0.13	0.03	29	0.3	0.06	20.1	1.10
STD OXH82	Standard																				
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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		1F Ge ppm 0.1	1F Hf ppm 0.02	1F Nb ppm 0.02	1F Rb ppm 0.1	1F Sn ppm 0.1	1F Ta ppm 0.05	1F Zr ppm 0.1	1F Y ppm 0.01	1F Ce ppm 0.1	1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
DUP 1077761	QC	0.3	0.96	0.04	124.8	1.0	<0.05	34.1	6.30	5.8	0.08	18	0.1	32.6	<10	<2
1077683	Rock	0.1	0.06	0.03	3.0	0.5	<0.05	4.1	10.20	9.9	0.05	<1	0.3	51.7	<10	10
DUP 1077683	QC	0.1	0.08	0.02	2.7	0.4	<0.05	3.8	10.25	9.8	0.05	4	0.3	52.9	<10	7
Reference Materials																
STD DS8	Standard	<0.1	0.06	0.58	38.5	7.0	<0.05	1.8	5.62	26.8	2.32	48	5.4	26.9	109	340
STD DS8	Standard	<0.1	0.06	0.74	41.0	7.1	<0.05	1.9	6.03	26.6	2.35	54	5.5	28.8	120	323
STD DS8	Standard	0.1	0.06	0.86	34.8	6.1	<0.05	1.7	5.06	25.8	1.95	52	5.1	25.8	84	294
STD DS8	Standard	<0.1	0.08	0.62	38.1	6.4	<0.05	1.7	5.22	24.0	2.28	55	5.0	26.0	94	328
STD DS8	Standard	0.1	0.07	0.88	39.4	7.7	<0.05	2.1	6.03	30.0	2.42	57	5.2	30.7	97	357
STD DS8	Standard	0.1	0.07	0.90	38.1	6.5	<0.05	1.8	5.74	28.3	2.14	54	5.2	27.0	109	340
STD DS8	Standard	0.1	0.06	0.94	36.1	6.0	<0.05	1.5	5.70	32.3	2.08	52	4.7	23.7	115	356
STD DS8	Standard	<0.1	0.07	0.75	37.7	6.4	<0.05	1.7	5.62	29.5	2.18	60	5.3	26.3	128	380
STD OREAS45CA	Standard	0.1	0.54	0.16	10.0	1.9	<0.05	22.8	8.95	39.0	0.10	<1	0.7	7.2	32	65
STD OREAS45CA	Standard	<0.1	0.52	0.17	9.7	2.0	<0.05	21.2	8.31	34.9	0.09	<1	0.8	7.2	38	63
STD OREAS45CA	Standard	<0.1	0.54	0.18	9.1	1.8	<0.05	21.0	7.95	36.3	0.10	<1	0.6	7.7	12	70
STD OREAS45CA	Standard	0.2	0.41	0.13	8.7	1.8	<0.05	17.3	7.46	33.6	0.11	1	0.6	6.7	67	58
STD OREAS45CA	Standard	0.1	0.57	0.20	9.8	2.2	<0.05	23.0	8.94	40.2	0.11	<1	0.8	8.4	35	70
STD OREAS45CA	Standard	<0.1	0.62	0.17	9.1	1.9	<0.05	24.0	7.85	35.8	0.08	<1	0.9	7.4	20	65
STD OREAS45CA	Standard	0.1	0.43	0.12	9.0	1.7	<0.05	18.5	7.65	38.9	0.09	<1	0.6	7.4	28	64
STD OREAS45CA	Standard	<0.1	0.51	0.11	9.0	1.7	<0.05	20.6	8.03	41.5	0.10	<1	0.7	7.1	24	67
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
STD OXH82	Standard															
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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
STD OXK79	Standard	3.479																			
STD OXK79	Standard	3.632																			
STD OXK79	Standard	3.638																			
STD OXK79	Standard	3.232																			
STD OXK79	Standard	3.877																			
STD OXK79	Standard	3.567																			
STD OXH82 Expected		1.278																			
STD OXK79 Expected		3.532																			
STD DS8 Expected				13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	4.8	6.67	41.1
STD OREAS45CA Expected				1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
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BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2

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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		WGHT	G6	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	gm/t	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
Prep Wash																					
G1	Prep Blank		<0.005	0.17	4.18	3.06	46.5	10	2.1	3.9	554	2.07	<0.1	1.4	<0.2	5.1	67.9	0.03	<0.02	<0.02	37
G1	Prep Blank		<0.005	0.17	2.56	3.14	47.7	10	1.9	3.7	565	2.06	<0.1	1.4	<0.2	5.7	69.6	0.02	<0.02	0.03	36



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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		1F Ca %	1F P %	1F La ppm	1F Cr ppm	1F Mg %	1F Ba ppm	1F Ti %	1F B ppm	1F Al %	1F Na %	1F K %	1F W ppm	1F Sc ppm	1F Ti ppm	1F S %	1F Hg ppb	1F Se ppm	1F Te ppm	1F Ga ppm	1F Cs ppm
		0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02
Prep Wash																					
G1	Prep Blank	0.53	0.082	13.6	4.9	0.48	125.8	0.112	<20	0.88	0.074	0.43	<0.1	2.0	0.32	<0.02	<5	<0.1	0.03	5.0	2.54
G1	Prep Blank	0.51	0.083	16.0	4.4	0.48	121.6	0.115	<20	0.83	0.072	0.41	<0.1	1.9	0.33	<0.02	<5	<0.1	<0.02	5.0	2.46



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Project: 203400

Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003601.1

		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	0.5	<0.02	<1	<0.1	<0.1	<10
Prep Wash															
G1	Prep Blank	0.1	0.08	0.22	41.0	0.5	<0.05	1.2	4.68	23.2	0.03	2	0.3	26.4	<10
G1	Prep Blank	0.1	0.09	0.29	39.5	0.4	<0.05	1.3	4.91	26.1	0.02	1	0.5	27.8	<10