



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Heberlein Geoconsulting**
325 - 210 West 2nd St.
North Vancouver BC V7M 1C6 Canada

Submitted By: Dave Heberlein
Receiving Lab: Canada-Vancouver
Received: August 18, 2009
Report Date: October 14, 2009
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN09003642.1

CLIENT JOB INFORMATION

Project: GBC-1
Shipment ID:
P.O. Number
Number of Samples: 61

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

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: Heberlein Geoconsulting
325 - 210 West 2nd St.
North Vancouver BC V7M 1C6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Air Dry	61	Air Dry			VAN
SS60	61	Sieve to 60 mesh			VAN
RJSV	61	Saving all or part of Soil Reject			VAN
1F05	56	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
LOI	57	Loss on Ignition at 1000 C		Completed	VAN

ADDITIONAL COMMENTS



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.
"***" 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

VAN09003642.1

	Method Analyte	Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
			ppm 0.01	ppm 0.01	ppm 0.01	ppm 0.1	ppb 2	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.1	ppm 0.1	ppb 0.2	ppm 0.1	ppm 0.5	ppm 0.01	ppm 0.02	ppm 0.02	ppm 2
579 ACM-AH	Soil		0.98	7.20	7.84	35.7	337	6.3	1.3	335	0.41	0.5	<0.1	<0.2	<0.1	8.2	0.32	0.31	0.08	9
580 ACM-AH	Soil		0.67	7.53	8.06	44.8	305	4.3	0.8	373	0.40	3.6	<0.1	0.2	<0.1	9.2	0.41	0.26	0.14	8
581 ACM-AH	Soil		0.79	8.40	10.23	31.4	268	7.6	1.7	380	0.57	1.2	<0.1	1.4	<0.1	16.3	0.34	0.25	0.11	15
583 ACM-AH	Soil		2.97	23.84	5.68	34.8	385	23.4	11.5	1860	1.08	6.5	0.9	1.5	0.3	119.8	2.97	1.49	0.12	15
584 ACM-AH	Soil		1.30	13.95	6.76	89.5	96	14.5	3.1	531	0.64	3.4	0.2	1.3	0.2	63.8	0.83	0.56	0.08	14
593 ACM-AH	Soil		1.03	24.01	9.93	47.8	419	19.6	6.3	858	0.66	1.0	0.3	1.6	0.1	19.3	0.58	0.43	0.10	16
598 ACM-AH	Soil		0.82	20.86	8.45	44.8	469	33.8	4.0	229	0.55	0.7	0.3	<0.2	0.2	40.4	0.67	0.50	0.06	12
604 ACM-AH	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
605 ACM-AH	Soil		2.07	29.14	8.69	70.1	186	29.0	5.1	296	1.07	2.9	0.3	1.3	0.1	23.1	0.49	0.73	0.10	18
606 ACM-AH	Soil		1.96	18.67	7.05	61.0	402	23.6	6.3	582	1.41	2.5	0.3	1.4	0.1	26.7	0.62	0.64	0.11	21
607 ACM-AH	Soil		2.24	29.85	9.26	54.6	321	26.8	6.8	323	1.54	2.6	1.0	0.6	0.6	24.5	0.71	0.84	0.13	26
609 ACM-AH	Soil		2.21	15.15	7.24	69.6	225	14.4	3.9	136	0.69	1.8	0.1	1.4	0.5	36.0	0.60	0.51	0.07	12
613 ACM-AH	Soil		2.05	64.04	9.03	68.6	421	58.0	9.9	767	2.04	7.3	0.5	1.7	0.2	47.4	2.14	1.09	0.17	34
615 ACM-AH	Soil		2.97	96.74	7.62	73.5	1313	70.9	10.1	359	2.29	5.0	2.8	4.8	0.7	90.7	3.08	2.64	0.20	28
618 ACM-AH	Soil		2.65	48.38	14.70	89.1	462	35.7	11.3	3239	1.60	3.4	0.8	2.0	0.3	48.0	2.04	1.14	0.18	27
620 ACM-AH	Soil		0.89	9.20	6.66	179.3	204	4.6	1.0	154	0.34	0.6	0.1	<0.2	<0.1	11.7	0.44	0.29	0.06	11
625 ACM-AH	Soil		0.79	32.03	9.29	87.0	885	43.6	6.1	196	1.56	1.4	0.9	3.0	0.8	28.0	0.44	0.61	0.27	37
628 ACM-AH	Soil		0.85	4.69	5.57	13.3	128	4.4	0.9	33	0.39	1.3	<0.1	0.3	<0.1	11.0	0.16	0.23	0.07	11
686 ACM-AH	Soil		1.33	8.49	7.22	29.3	171	4.0	1.6	108	0.72	2.5	0.1	2.9	<0.1	13.2	0.22	0.22	0.11	23
716 ACM-AH	Soil		1.52	44.14	8.93	82.0	1284	37.5	5.1	194	1.73	2.3	1.2	3.5	0.3	21.4	0.56	0.70	0.30	34
717 ACM-AH	Soil		1.57	7.80	5.71	48.9	317	8.0	1.4	332	0.35	0.8	<0.1	2.2	0.2	11.4	0.41	0.33	0.09	7
575 ACM-LH	Soil		4.69	13.35	9.13	44.0	794	20.3	11.2	8046	1.28	2.0	0.7	1.2	<0.1	51.5	2.77	0.61	0.17	26
576 ACM-LH	Soil		1.74	13.55	14.33	32.2	1001	14.4	2.8	358	1.09	3.2	0.2	1.4	<0.1	11.1	0.51	0.54	0.14	27
577 ACM-LH	Soil		2.00	11.02	7.52	39.0	91	9.1	1.6	113	0.57	0.5	0.1	0.8	<0.1	26.1	0.57	0.27	0.11	16
578 ACM-LH	Soil		0.89	8.37	8.25	53.0	124	10.8	1.7	399	0.72	1.5	0.1	1.2	<0.1	14.8	0.75	0.28	0.10	19
582 ACM-LH	Soil		3.89	20.71	9.14	50.6	114	22.9	5.6	423	1.01	3.1	0.2	1.8	0.2	29.2	0.81	0.56	0.11	18
586 ACM-LH	Soil		2.04	50.71	7.08	52.4	568	20.4	5.5	1203	1.32	8.6	1.0	4.0	0.8	49.7	0.49	0.60	0.11	24
587 ACM-LH	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
588 ACM-LH	Soil		8.23	1049	6.74	66.1	7970	16.4	6.3	842	2.17	14.3	0.4	89.6	0.9	72.4	0.41	0.79	0.19	42
589 ACM-LH	Soil		1.12	11.48	5.91	35.5	258	11.5	2.9	256	0.86	2.1	0.1	1.3	0.4	11.8	0.16	0.44	0.09	19



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	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
579 ACM-AH	Soil	2.8	10.0	0.06	142.4	0.011	2	0.32	0.007	0.06	<0.1	0.6	0.06	0.08	249	0.7	<0.02	0.9	0.29	<0.1
580 ACM-AH	Soil	2.4	7.8	0.05	97.8	0.007	2	0.32	0.007	0.06	<0.1	0.2	0.04	0.07	226	0.4	0.02	1.0	0.27	<0.1
581 ACM-AH	Soil	4.9	16.0	0.06	191.6	0.011	1	0.39	0.005	0.03	<0.1	0.4	0.05	0.04	132	0.2	<0.02	1.8	0.30	<0.1
583 ACM-AH	Soil	4.0	24.1	0.27	231.7	0.013	5	0.43	0.006	0.05	<0.1	1.6	0.06	0.16	325	2.5	<0.02	1.1	0.36	<0.1
584 ACM-AH	Soil	4.2	18.8	0.16	195.6	0.021	4	0.30	0.009	0.05	<0.1	1.0	0.04	0.07	193	0.6	<0.02	1.3	0.30	<0.1
593 ACM-AH	Soil	12.7	15.9	0.14	448.0	0.014	3	0.90	0.005	0.08	0.1	1.3	0.08	0.05	108	0.6	<0.02	2.7	0.37	<0.1
598 ACM-AH	Soil	13.5	16.6	0.15	738.0	0.016	3	0.74	0.008	0.07	<0.1	1.9	0.06	0.06	116	0.7	<0.02	1.9	0.27	<0.1
604 ACM-AH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
605 ACM-AH	Soil	8.4	22.0	0.22	274.7	0.024	3	0.62	0.004	0.10	<0.1	1.6	0.05	0.07	406	0.8	0.07	1.8	0.35	<0.1
606 ACM-AH	Soil	8.9	26.1	0.37	272.9	0.021	3	0.82	0.004	0.10	<0.1	1.2	0.05	0.05	274	0.4	0.03	2.4	0.34	<0.1
607 ACM-AH	Soil	13.9	34.0	0.35	312.7	0.015	3	1.08	0.005	0.07	<0.1	2.7	0.07	0.06	143	0.8	0.03	3.2	0.35	<0.1
609 ACM-AH	Soil	3.6	13.7	0.20	203.4	0.015	4	0.39	0.006	0.09	<0.1	1.3	0.03	0.10	203	0.8	0.03	1.2	0.24	<0.1
613 ACM-AH	Soil	12.7	53.7	0.43	364.9	0.027	2	1.09	0.006	0.08	<0.1	2.0	0.05	0.03	177	0.8	0.02	3.3	0.43	<0.1
615 ACM-AH	Soil	28.9	44.9	0.34	392.1	0.018	6	1.59	0.009	0.11	0.1	3.8	0.18	0.25	328	6.7	0.03	3.0	0.72	<0.1
618 ACM-AH	Soil	21.0	23.7	0.24	797.8	0.020	2	1.30	0.003	0.14	<0.1	2.8	0.12	0.05	159	0.6	<0.02	3.9	0.63	<0.1
620 ACM-AH	Soil	7.1	8.2	0.06	201.7	0.009	2	0.43	0.005	0.05	<0.1	0.5	0.05	0.04	119	0.4	<0.02	2.0	0.24	<0.1
625 ACM-AH	Soil	12.4	56.9	0.46	635.6	0.015	5	2.64	0.007	0.22	<0.1	4.5	0.23	0.04	210	0.7	<0.02	7.5	1.80	<0.1
628 ACM-AH	Soil	4.9	12.9	0.04	184.1	0.004	1	0.34	0.004	0.02	<0.1	0.1	0.04	0.03	305	0.1	<0.02	1.9	0.13	<0.1
686 ACM-AH	Soil	3.2	5.9	0.04	103.0	0.005	<1	0.37	0.008	0.06	<0.1	0.5	0.05	<0.02	91	0.3	<0.02	1.9	0.29	<0.1
716 ACM-AH	Soil	11.5	40.2	0.36	545.3	0.004	<1	2.41	0.007	0.15	0.1	1.4	0.15	0.05	295	0.6	0.03	6.2	0.56	<0.1
717 ACM-AH	Soil	1.7	8.6	0.06	159.4	0.010	2	0.20	0.004	0.09	<0.1	0.7	0.03	0.09	225	0.7	<0.02	0.5	0.17	<0.1
575 ACM-LH	Soil	5.0	47.4	0.23	466.1	0.023	<1	0.82	0.005	0.08	<0.1	1.6	0.16	0.07	300	1.5	0.06	2.9	0.65	<0.1
576 ACM-LH	Soil	3.7	32.7	0.08	181.7	0.012	<1	0.49	0.006	0.06	0.1	0.4	0.07	0.05	109	0.5	<0.02	2.2	0.48	<0.1
577 ACM-LH	Soil	4.5	24.4	0.07	310.1	0.009	<1	0.27	0.006	0.03	<0.1	0.4	0.03	0.04	304	0.2	<0.02	1.2	0.13	<0.1
578 ACM-LH	Soil	5.7	24.7	0.10	168.7	0.014	<1	0.52	0.005	0.03	<0.1	0.4	0.04	0.04	332	0.2	<0.02	2.4	0.15	<0.1
582 ACM-LH	Soil	5.9	22.4	0.19	296.4	0.017	<1	0.46	0.006	0.06	<0.1	1.2	0.05	0.06	143	0.4	<0.02	2.0	0.27	<0.1
586 ACM-LH	Soil	4.9	25.8	0.27	260.1	0.009	6	0.72	0.027	0.19	5.8	2.2	0.07	0.06	132	0.5	0.04	2.1	0.65	<0.1
587 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
588 ACM-LH	Soil	4.4	37.6	0.40	379.9	0.020	3	0.76	0.033	0.20	70.0	2.8	0.07	0.37	978	2.3	0.19	2.4	0.49	<0.1
589 ACM-LH	Soil	7.5	17.2	0.17	170.6	0.025	<1	0.56	0.004	0.07	<0.1	1.3	0.06	0.04	1280	0.6	0.03	2.2	0.57	<0.1



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	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	LOI
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
579 ACM-AH	Soil	0.15	3.7	0.2	<0.05	<0.1	0.54	5.0	<0.02	<1	<0.1	0.7	<10	<2
580 ACM-AH	Soil	0.20	2.9	0.2	<0.05	<0.1	0.47	4.4	<0.02	<1	<0.1	0.9	<10	<2
581 ACM-AH	Soil	0.34	2.2	0.3	<0.05	0.1	0.85	9.5	<0.02	<1	<0.1	0.9	<10	<2
583 ACM-AH	Soil	0.25	6.0	<0.1	<0.05	0.8	4.04	7.1	<0.02	2	0.2	2.8	<10	<2
584 ACM-AH	Soil	0.36	2.9	0.2	<0.05	0.3	1.47	7.6	<0.02	<1	<0.1	1.9	<10	<2
593 ACM-AH	Soil	0.26	4.0	0.3	<0.05	<0.1	5.63	24.2	<0.02	<1	0.4	2.4	<10	<2
598 ACM-AH	Soil	0.28	3.7	0.2	<0.05	0.2	9.68	26.9	<0.02	<1	0.4	1.6	<10	<2
604 ACM-AH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
605 ACM-AH	Soil	0.38	3.3	0.1	<0.05	0.2	4.58	15.8	<0.02	<1	0.2	3.3	<10	<2
606 ACM-AH	Soil	0.44	5.6	0.1	<0.05	0.1	3.16	16.6	<0.02	<1	0.2	5.9	<10	<2
607 ACM-AH	Soil	0.53	4.4	0.2	<0.05	0.8	7.27	20.8	<0.02	<1	0.3	7.0	<10	<2
609 ACM-AH	Soil	0.29	2.4	<0.1	<0.05	0.9	1.20	6.3	<0.02	<1	0.2	2.3	<10	<2
613 ACM-AH	Soil	0.50	6.2	0.2	<0.05	0.3	11.62	18.9	0.03	<1	0.4	6.4	<10	<2
615 ACM-AH	Soil	0.69	6.5	0.3	<0.05	2.3	31.79	19.8	0.02	6	0.9	5.3	<10	<2
618 ACM-AH	Soil	0.48	8.0	0.3	<0.05	0.2	14.90	39.9	0.03	<1	0.9	6.4	<10	<2
620 ACM-AH	Soil	0.15	1.9	0.2	<0.05	<0.1	0.85	12.9	<0.02	<1	<0.1	0.8	<10	<2
625 ACM-AH	Soil	0.56	20.9	0.6	<0.05	0.9	5.37	22.3	0.02	<1	0.8	17.2	<10	<2
628 ACM-AH	Soil	0.11	1.4	0.2	<0.05	<0.1	0.58	9.6	<0.02	<1	0.1	0.5	<10	<2
686 ACM-AH	Soil	0.17	3.9	0.3	<0.05	<0.1	0.60	6.0	<0.02	<1	<0.1	0.5	<10	<2
716 ACM-AH	Soil	0.97	9.6	0.6	<0.05	0.7	5.56	20.4	0.04	<1	0.5	10.8	<10	<2
717 ACM-AH	Soil	0.14	1.5	0.1	<0.05	0.3	0.51	2.9	<0.02	<1	<0.1	0.6	<10	<2
575 ACM-LH	Soil	0.57	7.2	0.4	<0.05	<0.1	3.01	13.3	0.02	<1	0.2	5.2	<10	<2
576 ACM-LH	Soil	0.22	4.7	0.4	<0.05	<0.1	0.80	6.6	<0.02	<1	<0.1	1.0	<10	<2
577 ACM-LH	Soil	0.26	1.1	0.3	<0.05	0.1	0.94	8.6	<0.02	<1	<0.1	0.6	<10	<2
578 ACM-LH	Soil	0.36	1.8	0.3	<0.05	0.2	1.06	10.8	<0.02	1	<0.1	1.7	<10	<2
582 ACM-LH	Soil	0.40	3.0	0.2	<0.05	0.3	1.89	11.2	<0.02	<1	<0.1	2.4	<10	<2
586 ACM-LH	Soil	0.32	7.7	0.2	<0.05	0.5	3.33	9.4	<0.02	<1	0.3	3.7	<10	<2
587 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
588 ACM-LH	Soil	0.58	7.6	1.1	<0.05	0.5	3.84	8.3	0.02	4	0.2	4.2	<10	<2
589 ACM-LH	Soil	0.41	7.9	0.2	<0.05	0.1	1.41	14.8	<0.02	<1	0.1	3.1	<10	<2



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Project: GBC-1
Report Date: October 14, 2009

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CERTIFICATE OF ANALYSIS

VAN09003642.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.01	ppm 0.01	ppm 0.01	ppm 0.1	ppb 2	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.1	ppm 0.1	ppb 0.2	ppm 0.1	ppm 0.5	ppm 0.01	ppm 0.02	ppm 0.02	ppm 2	% 0.01
590 ACM-LH	Soil	1.53	23.07	11.43	48.3	413	20.1	5.1	175	1.22	3.8	0.2	1.2	<0.1	12.7	0.40	0.73	0.11	19	0.20
591 ACM-LH	Soil	1.16	10.86	10.87	42.9	336	7.8	1.1	61	0.31	0.7	0.1	0.6	<0.1	38.6	0.58	0.26	0.09	10	0.69
592 ACM-LH	Soil	2.74	63.16	9.90	79.5	1310	44.3	7.7	1466	1.53	3.9	0.9	1.7	0.4	49.0	1.84	1.26	0.16	26	1.06
593 A-ACM-LH	Soil	0.81	7.21	3.69	43.1	580	6.4	0.8	355	0.10	0.5	<0.1	0.8	<0.1	13.0	0.49	0.18	0.03	2	0.26
594 ACM-LH	Soil	1.82	13.42	10.92	36.8	242	12.7	2.6	212	0.67	1.5	0.2	1.3	<0.1	12.8	0.35	0.34	0.11	15	0.15
595 ACM-LH	Soil	2.09	16.32	9.67	46.4	417	14.4	3.4	254	0.73	2.1	0.1	0.6	0.6	15.3	0.52	0.46	0.09	16	0.21
596 ACM-LH	Soil	1.57	13.85	9.14	45.0	421	13.6	1.8	91	0.56	1.4	0.2	1.1	1.0	18.1	0.49	0.32	0.09	17	0.21
597 ACM-LH	Soil	1.49	25.25	8.08	50.3	498	31.3	5.4	353	0.91	1.7	0.4	0.4	<0.1	39.7	0.43	0.57	0.10	16	0.37
599 ACM-LH	Soil	1.02	8.77	8.60	23.8	295	6.2	1.2	233	0.35	0.9	<0.1	1.1	0.1	7.1	0.30	0.29	0.06	11	0.11
600 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
601 ACM-LH	Soil	2.13	23.57	7.24	54.6	854	23.0	21.1	1684	1.73	3.0	0.6	1.4	0.2	26.3	0.40	0.72	0.13	24	0.36
608 ACM-LH	Soil	2.74	27.21	8.71	103.1	389	22.7	5.2	346	1.42	3.8	0.3	2.1	0.4	18.1	0.79	0.71	0.13	26	0.30
610 ACM-LH	Soil	2.42	15.75	6.48	56.8	146	13.9	3.1	448	0.72	2.7	0.1	0.2	0.3	10.8	0.63	0.64	0.07	12	0.27
611 ACM-LH	Soil	3.41	14.62	5.91	53.1	102	18.3	5.0	1540	1.13	3.8	0.2	1.0	0.1	13.2	0.65	0.76	0.09	19	0.35
612 ACM-LH	Soil	1.99	11.29	6.80	42.1	271	12.4	3.0	595	0.96	2.8	0.1	0.9	<0.1	10.0	0.37	0.49	0.09	18	0.20
614 ACM-LH	Soil	1.52	27.86	5.54	65.2	100	31.6	6.4	737	1.22	3.2	0.2	1.5	0.3	57.4	2.05	0.66	0.09	18	1.05
617 ACM-LH	Soil	1.24	31.61	5.45	66.7	270	27.7	4.1	389	1.26	3.0	0.6	3.1	0.5	45.8	1.37	0.77	0.11	17	1.38
619 ACM-LH	Soil	1.09	10.85	10.89	38.3	329	9.2	1.5	640	0.47	1.9	0.2	0.5	0.1	21.2	0.71	0.37	0.08	10	0.36
621 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
622 ACM-LH	Soil	1.12	7.59	7.22	36.0	537	5.1	1.2	192	0.37	1.7	<0.1	0.5	0.4	9.2	0.48	0.35	0.03	9	0.17
623 ACM-LH	Soil	1.49	20.38	10.88	51.7	221	20.1	4.5	351	1.01	3.1	0.2	0.8	<0.1	15.8	0.56	0.59	0.11	16	0.22
624 ACM-LH	Soil	2.67	16.34	5.75	66.5	234	14.6	3.7	978	0.86	3.1	0.2	1.2	0.6	22.5	0.65	0.58	0.10	14	0.39
626 ACM-LH	Soil	1.39	35.65	10.09	93.9	1725	26.4	5.9	1285	1.22	2.2	0.6	<0.2	<0.1	41.8	1.61	0.40	0.16	21	0.62
689 ACM-LH	Soil	1.28	33.96	6.67	83.2	207	30.5	7.0	611	1.67	4.5	0.5	1.7	0.5	39.7	0.82	0.82	0.13	25	1.02
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
718 ACM-LH	Soil	1.42	7.99	5.14	47.0	122	8.0	1.4	206	0.40	1.7	<0.1	2.2	0.2	8.6	0.52	0.32	0.08	7	0.25
719 ACM-LH	Soil	1.50	7.99	5.81	27.4	75	6.5	1.1	65	0.54	1.0	<0.1	1.4	<0.1	13.3	0.29	0.24	0.10	14	0.27
721 ACM-LH	Soil	1.01	6.07	8.65	23.4	373	9.4	1.6	172	0.56	1.3	<0.1	0.5	<0.1	8.3	0.17	0.31	0.12	13	0.10
723 -LH	Soil	1.06	7.67	8.73	28.7	732	6.2	0.9	509	0.16	0.7	<0.1	0.4	0.1	7.4	0.31	0.22	0.08	4	0.16
724 ACM-LH	Soil	0.82	11.35	11.84	33.4	628	7.3	0.9	355	0.30	1.2	<0.1	0.8	<0.1	11.6	0.53	0.26	0.10	5	0.20



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
590 ACM-LH	Soil	8.3	21.7	0.25	360.3	0.012	<1	0.88	0.008	0.06	<0.1	0.7	0.05	0.04	114	0.4	0.04	2.5	0.29	<0.1
591 ACM-LH	Soil	7.6	9.5	0.12	283.2	0.009	<1	0.49	0.008	0.06	<0.1	0.6	0.04	0.05	141	0.4	<0.02	2.2	0.15	<0.1
592 ACM-LH	Soil	14.2	24.8	0.26	625.0	0.015	<1	1.45	0.010	0.15	3.0	3.2	0.11	0.07	170	0.9	0.04	3.8	0.60	<0.1
593 A-ACM-LH	Soil	0.9	3.6	0.07	119.4	0.004	<1	0.20	0.006	0.13	<0.1	0.5	0.03	0.12	118	0.5	<0.02	0.3	0.15	<0.1
594 ACM-LH	Soil	7.9	14.8	0.12	279.8	0.013	<1	0.68	0.005	0.05	<0.1	0.7	0.05	0.03	103	0.6	0.02	2.4	0.19	<0.1
595 ACM-LH	Soil	6.7	15.4	0.13	268.9	0.017	<1	0.69	0.005	0.08	<0.1	1.5	0.07	0.05	154	0.7	0.03	2.4	0.31	<0.1
596 ACM-LH	Soil	11.0	14.2	0.11	284.9	0.017	<1	0.74	0.005	0.08	<0.1	2.2	0.07	0.04	107	0.6	<0.02	3.1	0.27	<0.1
597 ACM-LH	Soil	11.7	18.5	0.18	592.5	0.009	<1	0.82	0.006	0.08	<0.1	0.5	0.06	0.07	136	0.5	<0.02	2.3	0.28	<0.1
599 ACM-LH	Soil	5.5	7.9	0.07	92.0	0.014	<1	0.38	0.006	0.06	<0.1	0.8	0.06	0.05	96	0.5	<0.02	1.6	0.22	<0.1
600 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
601 ACM-LH	Soil	10.0	24.1	0.22	307.5	0.018	<1	1.39	0.009	0.11	0.3	2.3	0.08	0.09	189	0.4	<0.02	3.6	0.56	<0.1
608 ACM-LH	Soil	7.3	28.1	0.23	285.5	0.017	2	0.87	0.004	0.10	<0.1	2.0	0.07	0.05	242	0.6	0.07	3.2	0.36	<0.1
610 ACM-LH	Soil	2.6	15.9	0.12	133.9	0.015	<1	0.30	0.007	0.10	<0.1	1.0	0.03	0.10	283	0.4	<0.02	0.9	0.18	<0.1
611 ACM-LH	Soil	4.8	23.9	0.22	99.7	0.025	3	0.46	0.005	0.09	<0.1	0.9	0.06	0.07	210	0.6	0.02	1.9	0.28	<0.1
612 ACM-LH	Soil	5.8	18.8	0.17	151.3	0.023	<1	0.53	0.003	0.09	<0.1	1.0	0.06	0.06	329	0.6	0.03	2.1	0.38	<0.1
614 ACM-LH	Soil	7.8	25.1	0.27	229.7	0.026	<1	0.63	0.010	0.06	0.6	1.9	0.05	0.04	111	0.5	0.03	2.0	0.33	<0.1
617 ACM-LH	Soil	10.4	21.6	0.27	273.0	0.016	2	0.74	0.005	0.07	<0.1	2.0	0.06	0.06	137	0.5	0.03	2.2	0.34	<0.1
619 ACM-LH	Soil	6.8	8.8	0.10	607.0	0.011	<1	0.47	0.006	0.08	<0.1	1.2	0.04	0.08	140	0.5	0.04	1.6	0.22	<0.1
621 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
622 ACM-LH	Soil	5.0	7.5	0.05	70.7	0.010	<1	0.32	0.007	0.07	<0.1	0.8	0.06	0.07	159	0.5	0.02	1.4	0.22	<0.1
623 ACM-LH	Soil	7.5	18.7	0.24	345.5	0.014	<1	0.70	0.008	0.10	<0.1	0.8	0.07	0.05	107	0.7	<0.02	2.0	0.38	<0.1
624 ACM-LH	Soil	5.6	17.5	0.25	148.5	0.017	<1	0.61	0.008	0.13	1.4	1.3	0.06	0.08	143	0.6	0.04	2.0	0.34	<0.1
626 ACM-LH	Soil	13.8	18.7	0.17	623.3	0.008	<1	1.10	0.019	0.07	<0.1	0.7	0.06	0.04	115	0.7	0.03	3.1	0.28	<0.1
689 ACM-LH	Soil	10.8	28.6	0.36	318.8	0.023	2	0.95	0.007	0.08	0.2	2.3	0.08	0.04	108	0.7	0.05	2.9	0.44	<0.1
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
718 ACM-LH	Soil	1.2	8.8	0.06	98.5	0.008	3	0.17	0.004	0.07	0.1	0.6	0.07	0.08	151	0.4	<0.02	0.5	0.14	<0.1
719 ACM-LH	Soil	2.8	24.1	0.04	134.9	0.007	1	0.18	0.004	0.02	<0.1	0.3	0.03	0.03	883	0.2	0.03	1.2	0.12	<0.1
721 ACM-LH	Soil	2.1	16.4	0.05	85.1	0.012	3	0.32	0.004	0.04	<0.1	0.5	0.04	0.05	100	0.6	0.04	1.5	0.20	<0.1
723 -LH	Soil	1.5	4.8	0.04	140.8	0.007	3	0.28	0.004	0.06	<0.1	0.7	0.06	0.07	149	0.7	<0.02	0.8	0.13	<0.1
724 ACM-LH	Soil	1.5	7.9	0.03	219.4	0.007	2	0.34	0.006	0.05	<0.1	0.8	0.05	0.06	129	0.5	<0.02	0.5	0.15	<0.1



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	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	LOI
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
590 ACM-LH	Soil	0.27	3.5	0.2	<0.05	0.2	1.67	16.7	<0.02	<1	0.3	5.2	<10	<2
591 ACM-LH	Soil	0.15	1.2	0.3	<0.05	0.2	0.92	13.9	<0.02	<1	<0.1	0.8	<10	<2
592 ACM-LH	Soil	0.61	7.9	0.3	<0.05	0.3	11.55	24.2	0.03	<1	0.6	6.1	<10	<2
593 A-ACM-LH	Soil	0.05	2.5	<0.1	<0.05	0.2	0.49	1.8	<0.02	<1	<0.1	0.4	<10	<2
594 ACM-LH	Soil	0.32	2.1	0.3	<0.05	0.1	1.32	15.5	<0.02	<1	0.1	2.0	<10	<2
595 ACM-LH	Soil	0.29	2.8	0.2	<0.05	0.3	1.74	13.0	<0.02	<1	0.3	2.0	<10	<2
596 ACM-LH	Soil	0.27	2.2	0.3	<0.05	0.4	3.20	21.7	<0.02	<1	0.2	1.6	<10	<2
597 ACM-LH	Soil	0.35	3.4	0.3	<0.05	0.2	7.75	22.4	<0.02	<1	0.4	2.5	<10	<2
599 ACM-LH	Soil	0.20	2.3	0.2	<0.05	<0.1	0.80	11.1	<0.02	<1	0.1	0.9	<10	<2
600 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
601 ACM-LH	Soil	0.48	9.7	0.4	<0.05	0.1	6.52	20.1	0.03	<1	0.2	4.5	<10	<2
608 ACM-LH	Soil	0.49	4.4	0.3	<0.05	0.5	2.55	13.5	<0.02	<1	0.2	4.0	<10	<2
610 ACM-LH	Soil	0.27	1.7	0.1	<0.05	0.6	0.93	4.9	<0.02	<1	<0.1	1.4	<10	<2
611 ACM-LH	Soil	0.46	4.8	0.2	<0.05	0.1	1.08	9.8	<0.02	<1	0.2	4.1	<10	<2
612 ACM-LH	Soil	0.37	6.3	0.2	<0.05	0.1	0.99	11.6	<0.02	<1	0.2	2.7	<10	<2
614 ACM-LH	Soil	0.43	5.2	0.1	<0.05	0.3	3.41	15.4	<0.02	3	0.2	4.6	<10	<2
617 ACM-LH	Soil	0.54	5.8	0.2	<0.05	1.0	6.74	16.2	<0.02	<1	0.3	5.0	<10	<2
619 ACM-LH	Soil	0.22	1.7	0.2	<0.05	<0.1	2.40	13.0	<0.02	<1	0.3	1.3	<10	<2
621 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
622 ACM-LH	Soil	0.18	1.7	0.2	<0.05	0.2	0.55	9.6	<0.02	<1	0.1	0.6	<10	<2
623 ACM-LH	Soil	0.29	4.2	0.2	<0.05	0.2	2.04	15.1	<0.02	<1	0.2	4.6	<10	<2
624 ACM-LH	Soil	0.40	4.0	0.1	<0.05	0.6	1.16	11.5	<0.02	<1	<0.1	4.5	<10	<2
626 ACM-LH	Soil	0.46	4.9	0.4	<0.05	0.2	8.45	26.9	<0.02	<1	1.2	4.5	<10	<2
689 ACM-LH	Soil	0.61	6.7	0.2	<0.05	0.6	5.98	16.9	0.02	<1	0.3	7.0	<10	<2
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
718 ACM-LH	Soil	0.14	1.3	0.1	<0.05	0.2	0.45	2.2	<0.02	1	<0.1	0.7	<10	<2
719 ACM-LH	Soil	0.15	1.1	0.3	<0.05	<0.1	0.57	5.1	<0.02	<1	<0.1	0.4	<10	<2
721 ACM-LH	Soil	0.15	2.2	0.2	<0.05	<0.1	0.56	4.0	<0.02	1	<0.1	0.8	<10	<2
723 -LH	Soil	0.06	1.0	<0.1	<0.05	<0.1	0.27	2.7	<0.02	<1	<0.1	0.4	<10	<2
724 ACM-LH	Soil	0.08	2.2	0.1	<0.05	0.3	0.65	2.9	<0.02	<1	<0.1	0.2	<10	<2



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CERTIFICATE OF ANALYSIS

VAN09003642.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.01
725 ACM-LH	Soil	1.01	13.95	12.29	87.9	329	8.2	1.5	539	0.37	1.4	<0.1	<0.2	0.2	6.6	0.55	0.19	0.09	8	0.17
																				0.111



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CERTIFICATE OF ANALYSIS

VAN09003642.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
725 ACM-LH	Soil	2.3	6.9	0.06	160.7	0.010	2	0.38	0.003	0.08	<0.1	0.9	0.05	0.06	105	0.4	0.02	1.3	0.22	<0.1
																				<0.02



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CERTIFICATE OF ANALYSIS

VAN09003642.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	LOI
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
725 ACM-LH	Soil	0.12	1.8	0.2	<0.05	<0.1	0.59	4.3	<0.02	2	<0.1	1.0	<10	<2



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QUALITY CONTROL REPORT

VAN09003642.1

Method Analyte Unit MDL		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.01
Pulp Duplicates																				
593 ACM-AH	Soil	1.03	24.01	9.93	47.8	419	19.6	6.3	858	0.66	1.0	0.3	1.6	0.1	19.3	0.58	0.43	0.10	16	0.22
REP 593 ACM-AH	QC	1.07	23.99	9.61	48.5	412	22.2	6.5	885	0.66	1.2	0.3	<0.2	0.1	20.1	0.48	0.36	0.09	17	0.21
716 ACM-AH	Soil	1.52	44.14	8.93	82.0	1284	37.5	5.1	194	1.73	2.3	1.2	3.5	0.3	21.4	0.56	0.70	0.30	34	0.24
REP 716 ACM-AH	QC	1.58	46.99	8.98	88.7	1285	40.0	5.5	203	1.78	3.0	1.2	3.4	0.5	23.4	0.52	0.83	0.28	37	0.25
576 ACM-LH	Soil	1.74	13.55	14.33	32.2	1001	14.4	2.8	358	1.09	3.2	0.2	1.4	<0.1	11.1	0.51	0.54	0.14	27	0.19
REP 576 ACM-LH	QC																			
596 ACM-LH	Soil	1.57	13.85	9.14	45.0	421	13.6	1.8	91	0.56	1.4	0.2	1.1	1.0	18.1	0.49	0.32	0.09	17	0.21
REP 596 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
599 ACM-LH	Soil	1.02	8.77	8.60	23.8	295	6.2	1.2	233	0.35	0.9	<0.1	1.1	0.1	7.1	0.30	0.29	0.06	11	0.11
REP 599 ACM-LH	QC																			
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 715 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																				
STD DOLOMITE-1	Standard																			
STD DOLOMITE-1	Standard																			
STD DS7	Standard	18.95	109.7	67.56	399.6	819	56.0	9.3	611	2.42	51.5	4.9	59.0	4.4	64.3	6.49	5.97	4.58	82	0.90
STD DS7	Standard	20.38	113.9	66.17	396.0	794	54.4	8.9	604	2.44	51.5	4.8	76.1	4.7	75.8	6.05	5.80	4.56	82	0.99
STD DS7	Standard	20.33	106.9	69.07	386.4	841	54.9	9.1	632	2.47	50.0	5.1	83.2	4.8	76.5	6.23	5.89	4.69	87	1.01
STD DOLOMITE-1 Expected																				
STD DS7 Expected		20.5	109	70.6	411	890	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	4.6	4.51	84	0.93
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	<0.01
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	<0.01
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	<0.01



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	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
593 ACM-AH	Soil	12.7	15.9	0.14	448.0	0.014	3	0.90	0.005	0.08	0.1	1.3	0.08	0.05	108	0.6	<0.02	2.7	0.37	<0.1	<0.02
REP 593 ACM-AH	QC	12.4	16.1	0.14	435.4	0.014	3	0.91	0.004	0.08	<0.1	1.2	0.07	0.06	113	0.6	<0.02	2.7	0.37	<0.1	<0.02
716 ACM-AH	Soil	11.5	40.2	0.36	545.3	0.004	<1	2.41	0.007	0.15	0.1	1.4	0.15	0.05	295	0.6	0.03	6.2	0.56	<0.1	<0.02
REP 716 ACM-AH	QC	11.9	43.2	0.36	558.3	0.011	<1	2.48	0.007	0.18	0.2	3.0	0.19	0.06	249	0.6	0.05	6.4	1.12	<0.1	<0.02
576 ACM-LH	Soil	3.7	32.7	0.08	181.7	0.012	<1	0.49	0.006	0.06	0.1	0.4	0.07	0.05	109	0.5	<0.02	2.2	0.48	<0.1	<0.02
REP 576 ACM-LH	QC																				
596 ACM-LH	Soil	11.0	14.2	0.11	284.9	0.017	<1	0.74	0.005	0.08	<0.1	2.2	0.07	0.04	107	0.6	<0.02	3.1	0.27	<0.1	<0.02
REP 596 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
599 ACM-LH	Soil	5.5	7.9	0.07	92.0	0.014	<1	0.38	0.006	0.06	<0.1	0.8	0.06	0.05	96	0.5	<0.02	1.6	0.22	<0.1	<0.02
REP 599 ACM-LH	QC																				
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
REP 715 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DOLOMITE-1	Standard																				
STD DOLOMITE-1	Standard																				
STD DS7	Standard	11.7	205.5	1.01	402.7	0.111	39	0.96	0.087	0.43	3.8	2.4	3.98	0.20	186	3.6	1.12	4.4	5.91	0.1	0.11
STD DS7	Standard	13.2	207.9	1.02	387.9	0.126	37	1.08	0.105	0.45	3.6	2.9	4.04	0.20	194	3.6	1.15	5.0	5.66	0.1	0.12
STD DS7	Standard	14.2	225.5	1.06	409.3	0.130	40	1.09	0.107	0.46	3.7	2.8	4.10	0.20	200	3.7	1.11	4.7	6.07	<0.1	0.12
STD DOLOMITE-1 Expected																					
STD DS7 Expected		11.7	179	1.05	370.3	0.124	38.6	0.959	0.089	0.44	3.4	2.5	4.19	0.19	200	3.5	1.08	4.6	6.36	0.1	0.11
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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QUALITY CONTROL REPORT

VAN09003642.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	LOI
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.1
Pulp Duplicates															
593 ACM-AH	Soil	0.26	4.0	0.3	<0.05	<0.1	5.63	24.2	<0.02	<1	0.4	2.4	<10	<2	47.9
REP 593 ACM-AH	QC	0.23	3.6	0.3	<0.05	<0.1	5.69	23.5	<0.02	<1	0.4	2.2	<10	<2	
716 ACM-AH	Soil	0.97	9.6	0.6	<0.05	0.7	5.56	20.4	0.04	<1	0.5	10.8	<10	<2	41.1
REP 716 ACM-AH	QC	0.76	14.1	0.7	<0.05	0.7	6.08	22.5	0.03	<1	0.7	11.8	<10	<2	
576 ACM-LH	Soil	0.22	4.7	0.4	<0.05	<0.1	0.80	6.6	<0.02	<1	<0.1	1.0	<10	<2	55.5
REP 576 ACM-LH	QC	55.4													
596 ACM-LH	Soil	0.27	2.2	0.3	<0.05	0.4	3.20	21.7	<0.02	<1	0.2	1.6	<10	<2	45.9
REP 596 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
599 ACM-LH	Soil	0.20	2.3	0.2	<0.05	<0.1	0.80	11.1	<0.02	<1	0.1	0.9	<10	<2	53.1
REP 599 ACM-LH	QC	53.3													
715 ACM-LH	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	64.1
REP 715 ACM-LH	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
Reference Materials															
STD DOLOMITE-1	Standard	22.4													
STD DOLOMITE-1	Standard	22.1													
STD DS7	Standard	0.63	36.1	4.9	<0.05	5.9	4.96	33.4	1.55	2	1.5	28.7	64	40	
STD DS7	Standard	0.72	36.3	4.7	<0.05	5.8	5.90	35.4	1.57	3	1.6	28.7	66	37	
STD DS7	Standard	0.74	36.7	5.0	<0.05	6.0	6.10	36.7	1.52	3	1.7	29.1	73	37	
STD DOLOMITE-1 Expected		22.34													
STD DS7 Expected		0.71	35.8	4.61		5.4	5.18	36	1.57	4	1.6	29.3	58	37	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	