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Page: 1
Finalized Date: 23-OCT-2008
Account: RCM

CERTIFICATE VA08140194

Project: RAU

P.O. No.: RAU-08-18

This report is for 92 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-OCT-2008.

The following have access to data associated with this certificate:

AL ARCHER
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um


ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Zn %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H246710		3.58	0.02	0.04	0.01	0.21	13	50	0.17	0.71	17.85	0.11	3.65	1.3	5	0.22
H246711		2.96	<0.01	0.04	0.08	0.08	7	40	0.17	0.18	18.05	0.2	3.4	1.2	2	0.26
H246712		5.04	0.01	0.03	0.05	0.05	15	60	0.13	0.3	18.55	0.24	3.22	0.9	2	0.38
H246713		4.62	0.02	0.08	0.4	0.4	17	300	0.38	98.9	17.3	0.36	4.14	2.5	9	2.47
H246714		5.67	0.02	0.06	0.31	0.31	12	190	0.27	2.7	18.15	0.25	4.12	2.1	5	1.39
H246715		5.64	0.01	0.39	0.25	0.25	16	100	0.23	20.7	18.2	0.66	5.2	1.1	3	0.52
H246716		4.39	0.02	0.16	0.44	0.44	9	150	0.35	2.83	17.65	0.24	5.32	1.2	6	0.93
H246717		0.14	13.50	9.23	3.58	3.58	500	300	0.76	0.36	0.24	0.08	16.45	7.8	31	5.5
H246718		5.58	0.01	0.07	0.19	0.19	8	110	0.11	0.66	18.8	0.03	2.39	0.7	5	0.37
H246719		5.77	0.01	0.03	0.17	0.17	<5	100	0.17	0.16	18.8	0.06	2.4	0.8	3	0.16
H246720		5.31	0.01	0.02	0.13	0.13	<5	80	0.08	0.06	18.55	0.03	1.9	0.6	3	0.15
H246721		4.98	<0.01	0.02	0.11	0.11	12	70	0.08	0.06	17.7	0.04	1.91	0.6	3	0.1
H246722		5.48	<0.01	0.02	0.08	0.08	13	90	0.09	0.08	19.35	0.05	1.9	0.7	2	0.09
H246723		5.07	<0.01	0.02	0.29	0.29	8	180	0.16	0.13	18.15	<0.02	3.15	1	6	0.24
H246724		5.68	0.02	0.04	0.84	0.84	9	600	0.45	1.44	18.05	<0.02	8.1	2.3	16	0.5
H246725		5.05	0.02	0.05	0.28	0.28	14	180	0.21	1.19	17.9	0.07	4.92	1.5	9	0.2
H246726		5.74	0.02	0.05	0.4	0.4	12	270	0.2	1.24	18.9	0.03	5.48	1.8	14	0.31
H246727		6.17	0.02	0.09	0.73	0.73	22	400	0.29	0.05	17.7	0.03	8.24	3.4	22	0.6
H246728		0.70	0.01	0.01	0.08	0.08	6	20	0.05	0.05	18.9	0.06	1.37	1	1	0.15
H246729		5.61	0.01	0.05	0.29	0.29	13	140	0.14	0.62	16.7	<0.02	3.63	1.1	12	0.44
H246730		5.87	0.33	0.12	1.24	1.24	40	270	0.48	49.2	16.25	0.13	8.34	3	36	3.22
H246731		5.53	1.56	0.48	1.14	1.14	56	180	0.52	195.5	15.9	8.17	9.34	3.1	23	1.98
H246732		5.94	2.04	0.17	1.36	1.36	48	160	0.52	199	15.2	0.07	9.17	3.5	16	3.67
H246733		4.77	2.91	0.13	1.73	1.73	86	180	0.67	249	15.15	0.09	7.92	3.7	16	6.23
H246734		3.91	0.57	0.12	0.85	0.85	50	100	0.29	295	16.9	0.04	8.47	5.1	7	3.21
H246735		5.77	0.27	0.17	0.89	0.89	101	20	0.29	413	16.75	0.05	13.65	8.9	13	6.52
H246736		4.42	0.21	0.19	0.87	0.87	136	20	0.3	335	16.75	0.06	20.7	15	23	7.53
H246737		5.89	0.05	0.21	6.94	6.94	15.5	1310	1.41	6.89	8.52	<0.02	56	36.6	275	38.9
H246738		6.06	0.02	0.25	7.71	7.71	3.2	1330	1.88	4.06	7.15	<0.02	65.4	32.9	243	34.2
H246739		6.03	0.39	0.29	10.05	10.05	6.4	1800	2.95	1.44	2.36	<0.02	168	52.4	194	22.5
H246740		6.04	0.03	0.19	6.99	6.99	14.3	1250	1.91	4.29	5.34	0.02	82.7	49.3	223	27.2
H246741		6.22	0.09	0.15	3.07	3.07	97	30	0.7	7.47	11.7	0.04	28.7	28.4	83	17.25
H246742		5.77	0.02	0.13	6.5	6.5	42.3	620	1.33	1.92	9.35	<0.02	76.9	42.2	210	41
H246743		0.43	0.01	0.01	0.18	0.18	11	40	0.09	0.3	20.1	0.06	2.77	1.7	3	0.54
H246744		5.99	<0.01	0.14	6.14	6.14	78	1090	1.39	1.86	7.86	<0.02	63.7	33.9	220	40.1
H246745		3.96	0.02	0.17	6.04	6.04	64.3	250	1.37	15.2	2.95	<0.02	56.5	27.4	203	40.8
H246746		6.07	0.05	0.31	7.49	7.49	40.7	70	2.36	4.12	2.28	0.02	129.5	17.2	120	9.55
H246747		4.04	0.03	0.26	4.57	4.57	83	130	1.17	4.96	10.8	0.02	66.1	4.7	31	24.9
H246748		5.95	0.02	0.08	1.06	1.06	112	120	0.33	16.25	14.8	0.02	16.6	2.7	15	11.85
H246749		6.13	0.02	0.09	1.06	1.06	142	70	0.44	915	16.75	0.02	15.45	10.8	22	8.56



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Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
Sample Description	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246710	10.3	0.29	0.73	0.05	<0.1	0.007	0.04	2.2	3.9	11.2	412	2.23	0.04	0.4	3.3
H246711	3.2	0.28	0.34	0.1	<0.1	0.01	0.03	2.1	3.8	11.3	508	0.3	0.02	0.2	0.8
H246712	1.5	0.22	0.31	0.12	<0.1	0.007	0.02	2.1	3.8	11.2	499	0.35	0.02	0.1	1.7
H246713	3	0.55	1.64	0.09	0.1	0.013	0.24	2.5	5.1	10.8	390	3.96	0.02	0.8	9.3
H246714	2	0.62	1.08	0.07	0.1	0.008	0.15	2.6	4	10.7	471	3.67	0.02	0.7	5.4
H246715	2.4	0.64	1.18	0.07	0.1	0.032	0.06	2.8	3.1	10.8	930	0.49	0.02	0.5	2.3
H246716	1.6	0.48	1.37	0.1	0.2	0.022	0.21	2.6	2.8	11.2	548	1.53	0.01	1	2.2
H246717	42.7	3.2	7.35	0.13	1.8	0.03	3.04	8.3	44.1	0.2	140	5.67	0.07	6.5	15.3
H246718	1.7	0.14	0.64	0.21	0.1	<0.005	0.1	1.3	3.8	11.8	165	1.35	<0.01	0.6	2
H246719	1.5	0.12	0.62	0.28	0.1	<0.005	0.06	1.3	2.7	11.7	173	1.22	<0.01	0.5	1.8
H246720	1.2	0.08	0.51	0.28	0.1	<0.005	0.05	1.3	2.1	11.7	134	0.35	<0.01	0.4	1.3
H246721	1.2	0.09	0.46	0.27	<0.1	0.016	0.03	1.5	1.9	10.85	152	0.49	<0.01	0.4	1.3
H246722	1.1	0.11	0.39	0.29	<0.1	<0.005	0.03	1.3	1.7	11.3	166	0.67	<0.01	0.3	1
H246723	1.8	0.29	0.82	0.22	0.1	<0.005	0.13	1.8	2.2	11.1	135	0.85	<0.01	1	2.3
H246724	4	0.72	2.23	0.11	0.4	0.01	0.42	4.8	3.8	10.35	250	0.71	<0.01	4.1	8.8
H246725	3.7	0.69	0.8	0.09	0.2	0.005	0.13	3	2.2	10.25	311	0.66	<0.01	1.5	4.8
H246726	3.3	0.83	1.05	0.08	0.2	0.006	0.2	3.2	3.2	11	274	0.44	<0.01	2.2	4.2
H246727	4.8	1.13	1.86	0.07	0.4	0.007	0.32	4.7	4.5	10.6	226	0.42	<0.01	4.8	6.6
H246728	1.4	0.38	0.32	0.19	<0.1	<0.005	0.03	0.7	1	11.9	174	0.08	<0.01	0.5	1
H246729	2.5	0.65	0.76	0.09	0.2	0.008	0.15	2.3	2.6	9.71	304	0.56	<0.01	2	2.6
H246730	16.5	4.04	5.74	0.07	0.4	0.033	0.72	3.9	10.8	8.65	3950	0.48	<0.01	4.3	13
H246731	82.2	6.02	6.72	0.09	0.5	0.252	0.58	3.8	6.1	8.08	6850	0.43	<0.01	4.9	11.5
H246732	65.5	6.1	7.79	0.09	0.8	0.084	0.83	3.3	8.5	7.37	7550	0.7	<0.01	6.5	8.4
H246733	26.8	5.93	8.94	0.09	0.9	0.056	1.06	3	12.1	7.6	7050	0.79	0.02	9.4	10.2
H246734	38	5.76	5.32	0.08	0.6	0.06	0.52	3.1	8.3	8.33	8250	1.1	<0.01	4.4	12.1
H246735	88.4	6.43	5.25	0.1	0.6	0.034	0.5	5.7	6	8.12	6010	1.37	0.03	4.3	15.8
H246736	42.5	6.07	4.58	0.09	0.5	0.02	0.59	10	6.3	7.62	3610	0.47	0.02	5.5	16.8
H246737	22.1	5.78	19.95	0.14	0.9	0.065	4.45	28.4	38.1	2.78	1205	0.76	0.07	25.7	174
H246738	17.5	6.84	21.8	0.16	0.8	0.078	4.81	34.6	43	2.76	1045	0.55	0.08	33.9	215
H246739	32.3	6.83	31.4	0.23	0.6	0.108	4.59	91.2	53.1	1.49	562	0.85	0.11	61.4	191.5
H246740	16.8	4.51	23.8	0.18	1.9	0.066	4.23	44.6	41.6	2.83	726	1.72	0.07	26.7	214
H246741	18.5	9.59	9.71	0.15	0.8	0.029	1.91	14.1	17	6.54	1405	0.81	0.04	10.8	101.5
H246742	36.9	4.22	16.75	0.14	1.7	0.041	4.23	40.2	35.7	4.62	1145	0.79	0.07	19.9	165
H246743	2.1	0.52	0.55	0.14	<0.1	<0.005	0.08	1.4	1.4	12.4	214	0.11	<0.01	0.7	5.1
H246744	33.5	4.52	16.75	0.13	1.5	0.04	4.19	33.5	36.5	3.73	898	0.15	0.08	21.3	212
H246745	15.4	5.89	25.7	0.18	2.7	0.016	5.03	20.2	42.3	6.24	233	0.38	0.09	19.1	179
H246746	25.3	5.92	25.3	0.2	2	0.062	4.11	68.2	27.8	1.55	168	0.66	0.06	70.1	79.7
H246747	4.1	3.47	16.7	0.13	1.3	0.016	3.28	39.2	22.9	6.29	442	0.54	0.06	38.8	19
H246748	3.2	3.59	6.21	0.07	0.5	0.007	0.93	9.5	8.8	9.18	576	0.17	0.01	5.6	11.4
H246749	4	3.99	5.9	0.1	0.6	0.008	0.65	7.6	6.2	8.11	609	0.19	0.03	5.8	24.5



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
H246710		20	3.7	2.6	<0.002	0.04	0.55	0.6	1	0.5	40.4	<0.05	0.14	0.3	0.015	0.04
H246711		10	5.9	2.1	<0.002	0.01	0.29	0.3	1	0.3	43.6	<0.05	0.05	<0.2	<0.005	0.03
H246712		20	8.3	2.8	<0.002	0.03	0.3	0.2	1	0.3	67.7	<0.05	0.06	<0.2	<0.005	0.04
H246713		20	8.9	23.9	<0.002	0.08	2.42	1.1	1	0.8	48.5	0.06	0.14	0.3	0.025	0.23
H246714		20	8.5	17	<0.002	0.13	0.51	0.7	1	0.5	58.5	<0.05	0.08	0.5	0.019	0.18
H246715		20	29	7.8	<0.002	0.21	1.16	0.6	2	1.4	60	<0.05	0.09	0.4	0.013	0.07
H246716		10	10.3	20.2	<0.002	0.09	0.47	1.1	1	2.4	34	0.07	0.07	0.6	0.026	0.13
H246717		520	5.4	107.5	0.002	2.15	40.7	6.8	16	2.5	68.1	0.42	0.12	1.5	0.291	3.91
H246718		10	2	4.5	0.002	0.08	0.37	0.5	2	0.3	27.8	0.06	<0.05	0.3	0.01	0.08
H246719		10	2.2	2.8	0.002	0.04	0.25	0.5	2	0.2	26.8	<0.05	<0.05	0.3	0.01	0.05
H246720		<10	1.2	1.9	0.002	0.03	0.13	0.3	2	<0.2	28.1	<0.05	<0.05	0.2	0.007	0.03
H246721		<10	1.6	1.5	0.018	0.02	0.1	0.4	2	<0.2	29.6	<0.05	<0.05	0.2	0.007	0.04
H246722		10	1.5	1.8	0.002	0.02	0.14	0.4	2	<0.2	35.7	<0.05	<0.05	0.2	0.006	0.02
H246723		10	1.2	4.7	0.002	0.26	0.18	0.8	3	0.3	37.8	0.06	0.07	0.4	0.021	0.08
H246724		20	1.9	12.2	0.002	0.83	0.51	2.4	2	0.7	53.6	0.21	<0.05	0.8	0.079	0.23
H246725		30	3.7	3.8	<0.002	0.61	0.83	1.7	2	0.3	52.4	0.07	<0.05	0.4	0.029	0.11
H246726		40	2.8	5.9	<0.002	0.77	0.59	1.6	2	0.4	35.9	0.11	<0.05	0.4	0.047	0.16
H246727		60	3.8	8.9	0.002	1.39	0.87	2.7	2	0.5	35.4	0.23	<0.05	0.7	0.101	0.27
H246728		190	1.5	1.4	<0.002	0.04	0.07	0.3	1	<0.2	52.6	<0.05	<0.05	<0.2	0.005	<0.02
H246729		30	1.8	4.7	<0.002	0.73	0.42	1.3	2	0.4	38.6	0.09	<0.05	0.3	0.041	0.14
H246730		40	5	40.4	0.002	2.04	0.91	4	2	2.8	77.4	0.22	0.08	0.8	0.111	0.54
H246731		120	67.3	40.6	0.003	2.44	3.63	3.5	2	4.6	99.9	0.26	0.12	1.2	0.091	0.84
H246732		100	7.8	47.2	0.006	2.33	2.79	3.7	2	5.5	96.8	0.35	0.09	2.1	0.104	0.44
H246733		270	4.6	88.8	<0.002	2.48	3.12	3.5	2	4.4	100	0.53	0.13	2.1	0.134	0.53
H246734		110	4.8	34.2	0.004	1.29	3.26	1.9	3	2.6	117	0.24	0.2	1.3	0.06	0.27
H246735		420	4.6	93.9	0.003	3.63	2.71	2.1	2	2.2	89.9	0.23	0.25	0.9	0.067	0.47
H246736		600	4.3	114.5	0.002	4.93	2.02	3.6	2	1.7	80.7	0.27	0.44	1.1	0.087	0.56
H246737		1810	0.9	309	<0.002	1.48	0.24	25.4	2	10.8	83.6	1.51	0.13	4	0.816	2.26
H246738		1530	1.1	340	<0.002	1.88	0.27	25.1	2	11.3	82.1	1.95	0.13	5	0.825	2.33
H246739		2790	1.9	197	<0.002	1.68	0.3	25.1	2	14.8	60.3	3.53	0.1	12.4	0.851	1.86
H246740		3000	1.2	255	0.004	1.88	0.26	23.5	2	8.4	64	1.53	0.09	6.9	0.566	1.8
H246741		660	3.2	116.5	<0.002	>10.0	0.6	11.7	2	2.1	97.3	0.63	0.05	2.2	0.274	0.86
H246742		1730	0.9	324	<0.002	1.97	0.19	21.3	2	5.5	81.4	1.16	<0.05	5.4	0.523	2.21
H246743		230	1.6	4.7	<0.002	0.08	0.07	0.7	2	0.2	52.3	<0.05	<0.05	<0.2	0.016	0.04
H246744		1730	0.8	413	<0.002	0.93	0.14	17.9	1	8.2	62.7	1.15	<0.05	6.1	0.555	2.49
H246745		1830	2.1	740	0.002	4.24	0.43	16.8	2	12.4	44.8	1.06	0.05	7	0.441	3.16
H246746		1220	2.4	188.5	<0.002	6.34	0.38	13.1	2	4.8	33.8	3.77	<0.05	14.3	0.442	0.99
H246747		570	2	411	<0.002	3.77	0.76	4.4	2	3.8	54.7	2.13	0.06	7.3	0.291	2.11
H246748		420	1.8	181.5	<0.002	3.98	1.25	2.1	4	1	62.7	0.31	<0.05	1.1	0.09	0.86
H246749		350	4.4	118	<0.002	4.72	8.04	3.9	4	2.1	69.6	0.33	0.49	1.2	0.111	0.63



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Project: RAU

CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
H246710		0.3	8	1.8	1.9	19	2
H246711		0.2	5	0.6	2.1	28	<0.5
H246712		0.1	12	0.5	2.6	25	<0.5
H246713		0.3	17	1.4	2.8	48	4.4
H246714		0.3	12	1.2	2.6	55	4.1
H246715		0.2	8	0.8	3.4	111	3.2
H246716		0.3	6	1	2.5	52	5.4
H246717		0.7	53	9.4	9.8	44	66.8
H246718		0.2	4	0.3	1	5	3
H246719		0.3	5	0.4	1.3	25	2.7
H246720		0.2	5	0.1	1.5	14	1.9
H246721		0.2	4	0.3	1.9	15	1.7
H246722		0.2	3	0.1	1.4	28	1.4
H246723		0.3	3	0.2	1.8	9	5
H246724		0.5	9	0.7	4.4	5	15.7
H246725		0.3	11	0.5	4.9	46	7.2
H246726		0.3	9	0.4	4.5	26	8.6
H246727		0.6	13	1.1	5.6	5	16.3
H246728		0.5	2	0.1	1.1	15	1.2
H246729		0.4	7	0.4	3.1	3	6.7
H246730		0.5	18	85.2	9.5	37	17
H246731		0.9	18	171.5	15.2	2150	21
H246732		1.7	15	580	17.5	22	32.2
H246733		1.4	20	33.1	14.4	26	38.5
H246734		1.3	9	212	14.6	11	23.6
H246735		1.2	13	66.7	19.4	14	24.3
H246736		0.9	20	70.4	18.7	14	22.1
H246737		0.6	191	6.1	20.4	21	36.3
H246738		0.6	211	5.2	19.9	24	31.3
H246739		0.7	168	5.9	30	21	22.2
H246740		0.8	84	5.3	20.9	22	72.9
H246741		0.7	82	2.9	14.2	31	31.2
H246742		1.5	172	2.9	19.2	29	65.9
H246743		0.5	4	0.4	1.2	14	2.7
H246744		1.2	155	3.1	18	26	57.3
H246745		3.2	144	3.3	17.9	22	111.5
H246746		1.5	104	4.7	20.5	24	76.6
H246747		2	33	3.4	15	18	49.1
H246748		0.7	19	1.1	8.1	11	19.4
H246749		0.8	22	2.6	11.2	9	24.4



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CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Au ppm	Zn %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
H246750		6.06	0.03		0.16	2.58	92	220	0.63	36.7	14.2	<0.02	23.5	10.4	71	21.1
H246751		6.20	0.02		0.23	2.97	97	170	0.67	56.6	11.3	0.02	17.75	12.4	83	25.9
H246752		4.43	0.01		0.23	1.39	108	40	0.43	15.2	11.4	0.02	13.95	8.4	41	14.25
H246753		0.16	14.35		7.33	3.98	415	610	0.92	0.17	0.19	0.1	20.3	9	36	6.17
H246754		3.92	0.01		0.22	0.17	489	20	0.11	2.2	16.15	0.03	10.75	1.5	2	1.58
H246755		3.99	0.01		0.07	0.16	98	40	0.11	4.47	20.6	0.03	4.13	0.8	5	1.5
H246756		5.95	0.01		0.21	0.13	82	10	0.09	29	13.85	0.04	7.32	0.9	6	1.35
H246757		3.70	0.01		0.12	0.17	46	30	0.1	12.2	16.8	0.03	9.19	0.8	2	1.83
H246758		3.61	0.01		0.08	0.15	33	20	0.1	2.61	19.7	0.04	8.24	1.3	2	1.17
H246759		6.13	0.24		0.24	0.37	534	20	0.12	254	9.74	0.04	8.07	14.5	4	1.19
H246760		6.24	0.15		0.15	0.09	4270	10	<0.05	125.5	16.5	0.05	9.15	1.7	1	0.57
H246761		6.47	1.96		0.09	0.12	3420	10	0.05	423	15.3	0.06	34.9	1.3	1	0.34
H246762		6.67	0.17		0.15	0.08	742	10	0.18	1920	11.75	0.03	38.3	1.1	2	0.27
H246763		6.44	0.66		0.1	0.06	938	10	<0.05	335	10.55	0.04	83.1	0.7	2	0.22
H246764		6.62	0.19		0.12	0.03	919	10	<0.05	395	11.6	0.06	14.4	0.6	5	0.21
H246765		6.91	0.30		0.16	0.07	8050	10	0.09	756	10.8	0.04	98.1	1	<1	0.3
H246766		7.98	0.21		2.55	0.95	1780	60	0.21	341	1.87	22.4	111.5	8.2	10	0.58
H246767		0.48	0.04		0.03	0.09	85	20	0.07	14.05	20.2	0.1	2.59	1.3	1	0.18
H246768		8.02	0.07		0.89	0.86	1200	50	0.17	462	0.23	3.28	39.4	6.8	9	0.22
H246769		7.54	0.09		0.51	1.2	1365	10	0.24	456	0.86	0.93	167.5	12.4	15	0.12
H246770		6.11	0.04		0.14	4.54	287	50	1.25	67.9	4.2	0.11	82.2	40.4	34	7.4
H246771		6.18	0.03		0.9	1.59	664	30	0.38	124.5	0.71	3.68	187.5	40.4	20	0.78
H246772		6.20	0.05		0.14	4.65	223	40	1.17	186.5	0.94	2.31	120.5	56.4	38	2.46
H246773		0.16	15.05		7.53	4	515	340	0.88	0.24	0.19	0.09	20.7	8.9	34	6.48
H246774		6.38	0.04		0.12	5.19	296	520	1.14	468	0.87	0.49	237	65.8	43	3.39
H246775		5.27	0.03		0.07	6.4	80.5	60	1.13	13.45	2.25	0.09	74.9	55.1	44	6.18
H246776		5.51	0.02		0.07	7.1	61.3	120	1.88	45.3	6.16	0.06	121	69	43	25.6
H246777		5.08	0.01		0.03	6.32	47	260	1.99	146	10.7	0.04	96.4	58	32	23.7
H246779		5.33	<0.01		0.02	6.04	9	1110	1.49	25.7	15.2	0.03	94.6	46.5	34	14.9
H246780		5.31	<0.01		0.07	6	<5	1610	1.29	2.03	12	<0.02	78	50.7	34	28.1
H246781		0.82	<0.01		<0.01	0.13	5	30	0.11	0.73	19	0.07	2.4	1.9	1	0.38
H246782		5.00	<0.01		0.09	5.92	7	2490	1.15	0.66	13.15	0.02	107.5	40.5	35	35.3
H246783		5.22	<0.01		0.11	6.01	10	1790	1.53	1.08	12.3	0.03	90	51.2	36	52.7
H246784		5.29	0.02		0.05	5.56	40	140	1.31	0.94	8.56	0.05	76.7	35.6	27	18.35
H246785		3.58	0.11		0.94	1.84	114	40	0.6	0.76	8.55	0.25	31.4	11	27	4.53
H246786		4.79	<0.01		0.07	0.21	10	120	0.16	0.33	10.1	0.08	2.6	1.3	10	0.26
H246787		5.09	0.02		0.95	0.19	17	130	0.15	0.28	16.7	0.11	3.99	1.3	7	0.33
H246788		5.29	<0.01		0.19	0.22	16	120	0.19	0.28	17.75	0.1	5	1.4	8	0.48
H246789		5.02	<0.01		0.27	0.77	46	410	0.49	2.05	17.85	0.24	7.65	8.7	19	3.76
H246790		2.03	<0.01		0.2	0.54	190	70	0.24	43.8	16.2	0.23	10.4	15.6	21	1.76



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CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246750		7.2	3.98	10	0.09	1.1	0.009	2.08	12.8	16.2	8.37	558	0.26	0.06	13.4	43
H246751		9.1	4.9	13.1	0.09	1.3	0.009	2.24	9.2	17.3	7.03	484	0.4	0.08	14.5	53.5
H246752		12.7	5.72	8.99	0.1	0.9	0.008	1.09	7	8.5	7.16	519	0.29	0.03	5.5	27.9
H246753		49.8	3.25	8.22	0.13	2	0.032	3.34	10	46.4	0.19	140	6.17	0.09	7	17.8
H246754		14.2	5.81	1.06	0.08	0.1	0.019	0.12	5.1	2.4	11.55	724	0.1	0.01	0.3	1.3
H246755		2.7	2.35	0.85	<0.05	0.1	0.008	0.11	2.7	2.7	13.25	574	0.05	0.01	0.6	<0.2
H246756		9.6	6.08	0.99	0.08	0.1	0.015	0.09	3.5	2.3	8.53	655	0.1	0.01	0.4	1.8
H246757		9.8	6.45	1.17	0.09	0.1	0.016	0.13	4.5	2.3	10.85	741	0.07	0.01	0.7	2.6
H246758		3.8	2.58	0.92	<0.05	0.1	0.014	0.09	4.6	2.5	12.2	788	0.07	0.01	0.6	1.1
H246759		8.1	19.3	2.33	0.23	0.2	0.013	0.09	3.4	1.6	5.05	734	0.11	0.03	1.8	13.8
H246760		5.8	9.09	0.73	0.12	0.1	0.041	0.03	4.1	2	9.61	2360	0.08	0.01	0.4	2.3
H246761		2.7	11.75	1.15	0.16	0.1	0.052	0.01	21.6	2.3	9.02	2540	0.05	0.02	0.7	1.7
H246762		4.2	15.2	0.89	0.3	0.1	0.038	0.01	23.2	2.3	6.81	1880	0.05	0.01	0.4	2.4
H246763		3.3	17.3	0.73	0.26	0.1	0.041	0.01	57.8	1.6	5.72	1760	0.06	0.01	0.7	1.5
H246764		3.4	17.7	0.36	0.22	<0.1	0.045	0.01	8.4	1.5	6.75	2150	0.08	0.01	0.3	0.8
H246765		4.6	19.2	1.2	0.33	0.1	0.036	0.01	65.2	1.9	6.16	1820	0.07	0.01	0.3	2
H246766		9.7	38.2	5.89	0.43	0.6	0.045	0.19	74.8	1.3	1	375	0.18	0.06	4.9	31.1
H246767		2.5	0.69	0.25	<0.05	<0.1	0.005	0.03	1.5	1	12.9	213	0.11	0.01	0.2	<0.2
H246768		8.3	37.5	5.81	0.37	0.7	0.007	0.14	26.7	1.1	0.25	<5	0.16	0.06	3	62.1
H246769		8.8	31.8	8.84	0.41	0.9	0.072	0.02	110.5	1.2	0.61	203	0.25	0.12	3.9	44.1
H246770		14.3	11.75	19.1	0.2	1.2	0.042	1.94	45	8.7	1.92	512	0.18	0.1	20.7	74.5
H246771		22.7	30.1	7.26	0.45	2	0.015	0.62	118	3.8	0.24	<5	0.17	0.04	8.8	104.5
H246772		19.4	13.15	18.2	0.28	1.3	0.044	2.22	69	16.7	0.38	41	0.17	0.04	18.7	79.2
H246773		51.5	3.4	8.15	0.17	2.1	0.037	3.3	10.1	53.8	0.2	158	6.39	0.09	7.2	17.9
H246774		30.5	16.2	21.3	0.42	2.6	0.045	2.59	137	21.7	0.49	32	0.44	0.06	16.3	99
H246775		25.7	7.66	20.2	0.2	1	0.058	3.35	33.5	14.3	1.13	221	0.18	0.08	16.8	108
H246776		22.1	10.55	26.6	0.31	1.1	0.076	3.51	55.2	35.8	2.52	1270	0.22	0.24	30.3	142.5
H246777		10.8	6.37	24	0.23	1.4	0.064	3.04	47.6	38.4	4.34	3600	0.21	0.36	17.8	106
H246779		15.6	4.25	18.35	0.2	0.4	0.066	2.65	46.2	32.2	2.44	1630	0.11	0.25	22.2	106
H246780		40	4.62	19.4	0.21	0.5	0.049	4.14	38.3	43.6	3.95	718	0.11	0.13	17.7	121.5
H246781		2	0.47	0.57	<0.05	<0.1	<0.005	0.06	1.1	1.6	12.85	226	0.05	0.01	0.6	3
H246782		28.2	3.4	17.15	0.2	0.4	0.037	4.86	53.8	41.9	3.74	696	0.2	0.17	18.5	105.5
H246783		34.4	5.24	18.65	0.21	0.3	0.04	4.04	44.4	55	5.58	796	0.16	0.22	22.4	100
H246784		29.8	5.01	16.45	0.2	0.4	0.036	2.69	36.1	27.7	4.76	639	0.29	0.19	16.5	78.9
H246785		56.6	8.81	5.98	0.25	1	0.055	0.82	16.5	9.4	5.62	250	22.6	0.03	5.9	77.1
H246786		5.6	0.4	0.65	0.05	0.1	<0.005	0.06	1.7	1.9	6.67	143	0.34	0.01	0.9	6.8
H246787		56.8	0.31	0.71	0.05	0.1	0.013	0.07	2.6	2.5	11.3	236	0.34	0.01	0.6	4.5
H246788		8	0.4	0.75	<0.05	0.1	<0.005	0.08	3.1	1.8	11.85	299	0.42	0.01	0.6	6.2
H246789		14.1	0.99	3.01	0.08	0.6	0.005	0.4	4.5	6	11.95	509	22.6	0.03	3.7	47.9
H246790		7.8	5.05	2.96	0.09	0.6	<0.005	0.15	5	3	9.9	684	58	0.04	3.2	107



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CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm
H246750		670	1.8	297	<0.002	4.28	0.84	6.5	3	2.4	56.2	0.77	0.14	2.4	0.301	1.51
H246751		850	1.8	379	<0.002	5.37	1	8.6	3	3	49.1	0.83	0.25	3	0.294	1.86
H246752		580	2.4	253	<0.002	5.51	0.77	4.3	4	2	45.2	0.29	0.14	1.3	0.121	1.08
H246753		560	5.6	114	<0.002	2.42	44.7	7.9	17	2.6	72.8	0.46	0.2	1.7	0.317	4.46
H246754		260	1.5	19.8	<0.002	2.99	0.44	1.1	4	0.2	66.2	<0.05	0.26	0.2	0.008	0.14
H246755		120	1.4	15.6	<0.002	2.31	0.25	0.5	3	0.2	45.6	<0.05	<0.05	0.2	0.012	0.11
H246756		60	2.1	17	<0.002	4.87	0.48	0.8	6	0.3	52.5	<0.05	0.1	<0.2	0.008	0.1
H246757		150	1.7	18.1	<0.002	5.43	0.46	1.1	6	0.4	62.9	<0.05	0.1	0.2	0.01	0.12
H246758		200	3.6	15.3	<0.002	2.19	1.01	0.8	3	0.2	52.5	<0.05	<0.05	0.2	0.012	0.09
H246759		120	5.6	19.6	0.003	>10.0	4.06	1.4	8	1	36	0.11	0.47	0.3	0.022	0.12
H246760		110	4	6.8	0.002	8.46	3.77	0.8	4	0.3	89.8	<0.05	0.28	<0.2	0.005	0.05
H246761		160	5.3	2.1	<0.002	>10.0	5.57	0.6	5	0.7	94.2	<0.05	0.44	0.3	0.008	0.05
H246762		100	9.6	1.8	<0.002	>10.0	22	0.5	8	0.7	76.7	<0.05	1.72	<0.2	0.005	0.09
H246763		90	5.1	1.5	<0.002	>10.0	5.37	0.4	8	0.2	66.6	0.05	0.47	0.3	0.005	0.03
H246764		50	6	0.9	0.002	>10.0	6.44	0.4	7	0.2	79.8	<0.05	0.44	<0.2	<0.005	0.04
H246765		120	19.3	1.6	<0.002	>10.0	11.55	0.6	10	0.5	78	<0.05	1.31	<0.2	0.005	0.08
H246766		310	777	12.9	0.006	>10.0	5.31	1.2	15	3.1	14.3	0.27	0.69	1.2	0.146	0.47
H246767		250	3.8	1.4	<0.002	0.45	0.62	0.4	3	0.2	55.2	<0.05	<0.05	<0.2	<0.005	<0.02
H246768		280	255	5.9	<0.002	>10.0	5.66	0.6	9	1.5	5.3	0.15	1.1	0.6	0.077	0.22
H246769		720	50.3	1	<0.002	>10.0	6.62	0.6	7	1.8	11.4	0.22	0.91	1.7	0.107	0.16
H246770		2590	10.8	109.5	<0.002	>10.0	1.96	10.7	4	8.5	31.7	1.23	0.3	3.2	0.666	1.08
H246771		1520	134.5	25.7	<0.002	>10.0	5.03	3.8	10	3.1	9	0.52	0.84	2.4	0.278	0.4
H246772		2550	112.5	88.7	<0.002	>10.0	3.32	8.9	4	6.6	14.2	1.12	0.51	2.9	0.608	0.92
H246773		580	7.8	123	0.002	2.4	47	7.9	18	2.7	80.4	0.45	0.24	1.6	0.318	4.79
H246774		2660	36	114	<0.002	>10.0	11.35	10.9	6	7.5	19.5	0.92	1.38	3.1	0.534	0.82
H246775		3070	4.4	147	<0.002	8.86	1.18	13	3	4.7	29.7	1	0.21	3.6	0.583	1.22
H246776		3220	3.2	123	<0.002	>10.0	0.88	16.5	4	6.6	60.8	1.81	0.07	4.7	0.938	1.45
H246777		2540	2.7	103	<0.002	4.87	0.93	14.2	3	5.5	118	1.03	0.09	3.9	0.618	0.92
H246779		2900	1.6	99.4	<0.002	0.92	0.32	12.8	3	5.2	141.5	1.29	0.08	3.8	0.617	0.95
H246780		2160	1.8	220	<0.002	2.15	0.22	13	4	5.8	76.1	1.01	0.19	4	0.737	1.95
H246781		250	1.4	3	<0.002	0.05	0.05	0.4	3	0.2	47.7	<0.05	<0.05	<0.2	0.016	0.03
H246782		2420	3	309	<0.002	1.17	0.26	12.7	3	6.2	102.5	1.06	0.1	4.1	0.618	2.51
H246783		2410	1.8	299	<0.002	2.68	0.47	13.4	3	7.4	86.5	1.29	0.09	3.9	0.747	3.27
H246784		2270	2.1	92.2	<0.002	4.76	1.61	12	3	2.1	71.5	0.97	<0.05	3.3	0.542	1.37
H246785		930	6.3	27.5	0.101	>10.0	20.3	3.5	9	0.8	46.5	0.34	0.15	1.6	0.177	1.19
H246786		90	1.6	2.1	<0.002	0.42	1.45	0.8	4	0.3	41.7	0.05	<0.05	0.2	0.024	0.07
H246787		410	2.4	2.9	0.002	0.27	25.7	1	4	0.4	75.8	<0.05	<0.05	0.2	0.013	0.07
H246788		2040	4.1	4	0.004	0.4	3.73	0.8	2	<0.2	69.1	<0.05	<0.05	0.2	0.017	0.09
H246789		840	21.9	33.4	0.153	1.09	2.89	1.9	6	0.8	76.6	0.21	0.1	0.8	0.102	0.4
H246790		2070	11.8	25.3	0.305	6.17	5.31	1.4	5	0.5	80.3	0.19	0.37	1.7	0.052	0.36



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
H246750		1.1	66	4.3	9	13	42.5
H246751		1.8	66	4.8	9.2	31	51.7
H246752		1.3	34	4	7.5	13	37.3
H246753		0.8	60	9.1	11.3	49	76.9
H246754		0.1	15	0.5	8.1	15	2.6
H246755		0.1	6	0.7	3	6	4
H246756		0.1	8	74.6	6	10	2.8
H246757		0.1	10	1.5	6.9	10	3.4
H246758		0.1	9	3.4	5.1	9	3.9
H246759		0.5	15	262	6.3	8	8.2
H246760		1.4	12	142.5	7.8	15	2.9
H246761		0.4	6	101.5	6.2	15	4.4
H246762		0.2	7	720	6.1	10	3.1
H246763		1	5	83.3	5	9	4.5
H246764		0.4	5	204	5.6	10	1.6
H246765		1.6	7	560	7.4	10	2.4
H246766		1.9	26	600	2.7	3630	27.5
H246767		0.9	2	8.3	1.1	23	0.5
H246768		1.2	26	45.8	1	625	31.2
H246769		2.9	42	13.3	2.6	245	35.3
H246770		1.9	109	12.7	9.5	37	50.5
H246771		4.8	47	22.9	5.3	832	80.1
H246772		3	123	10.5	5.9	564	53.6
H246773		0.7	64	9.9	11.1	49	72.1
H246774		4.5	134	9.7	7.9	139	108.5
H246775		1	181	6.3	8.9	27	32.8
H246776		0.9	181	6.4	19.2	36	39.1
H246777		1.4	151	5.8	21.2	26	48.9
H246779		0.4	145	2.3	18.4	20	12.2
H246780		0.5	143	3.1	16.3	21	16.3
H246781		0.5	4	0.2	1.1	11	1.8
H246782		0.4	127	2.2	18	19	11.9
H246783		0.3	143	1.8	18	29	8.3
H246784		0.6	124	1.1	15	25	12.8
H246785		7.8	316	1	9.3	51	35
H246786		1.8	15	0.7	1.4	21	4.2
H246787		9.6	32	0.3	3.7	20	3.7
H246788		25.3	55	0.5	5.4	25	3.5
H246789		16.9	214	3.2	7.3	59	21.7
H246790		50.3	268	25.4	9.9	94	24.7



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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Zn %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
H246791		0.16	14.55		6.94	3.76	494	460	0.84	0.18	0.21	0.09	17.7	8.4	33	5.64
H246792		5.35	0.04		0.79	0.19	1385	20	<0.05	488	0.73	2.46	40.3	6.8	6	0.25
H246793		8.32	0.10		8.13	0.03	2520	30	<0.05	500	0.51	19.2	26.5	3	<1	0.25
H246794		8.91	0.10		16.7	0.08	3430	20	<0.05	4450	0.3	38	40.7	1.1	3	0.3
H246795		9.11	0.21	1.40	43.2	0.02	4440	10	<0.05	851	0.36	73.5	10.15	0.6	2	0.28
H246796		9.30	0.10	1.17	22.5	0.07	3790	30	<0.05	450	0.26	54.2	10.25	1.4	3	0.2
H246797		8.39	0.12	1.53	20.8	0.01	3340	10	<0.05	353	0.89	70.4	10.75	1.8	1	0.28
H246798		4.97	0.10	1.76	36.3	0.02	3420	20	<0.05	406	0.77	75.4	3.45	1.2	1	0.24
H246799		0.98	<0.01		0.86	0.09	61	30	0.09	12.25	19.8	2.36	1.91	1	1	0.19
H246800		4.20	0.09		16.05	0.07	3290	20	<0.05	428	0.37	19.7	16.1	2	<1	0.23
H246851		6.81	0.20	1.49	33.3	0.04	3580	10	<0.05	663	1.58	64.5	181	1.2	<1	0.28
H246852		5.22	<0.01		0.29	5.93	30	1110	1.73	271	12.9	0.28	87	36.4	37	42



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CERTIFICATE OF ANALYSIS VA08140194

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
H246791		44.5	3.29	7.63	0.1	2	0.029	3.2	8.1	53	0.19	150	5.86	0.09	6.9	15.6
H246792		7.7	37.7	1.6	0.33	0.3	0.005	0.02	24.2	0.6	0.28	62	14.95	0.02	0.7	52.9
H246793		14.5	41.6	0.42	0.36	0.2	0.011	0.01	16	0.6	0.15	81	8.32	0.01	0.5	20.8
H246794		24.4	42.4	1.02	0.41	0.2	0.025	0.01	25.6	1.1	0.11	246	0.32	0.01	0.5	8.3
H246795		39.5	43.5	0.5	0.47	0.1	0.053	0.01	6.2	0.9	0.11	390	0.63	0.01	0.3	5.3
H246796		21.7	44	0.72	0.36	0.1	0.045	0.01	5.8	0.4	0.1	311	0.21	0.01	0.7	13.6
H246797		27.1	40.2	0.32	0.32	<0.1	0.252	0.01	6.3	0.7	0.27	1180	0.22	0.01	0.3	20
H246798		34.2	41	0.54	0.39	<0.1	0.142	<0.01	1.3	0.7	0.16	603	0.34	0.01	0.2	9.1
H246799		2.7	1.08	0.29	<0.05	<0.1	0.012	0.04	1	1.3	12.45	221	0.14	<0.01	0.4	2
H246800		18.1	44.1	0.73	0.39	0.1	0.081	<0.01	10	0.5	0.14	310	4.63	0.01	0.3	22.5
H246851		37.9	41.8	1.5	0.48	0.1	0.174	0.01	113.5	1	0.61	1510	0.25	0.01	0.2	6.9
H246852		5.8	4.37	22.3	0.1	1.5	0.034	3.44	38.3	39.9	6.02	3380	0.23	0.23	25.9	59.9



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
H246791		550	5.3	118	0.002	2.29	43.6	7	16	2.5	71.5	0.43	0.15	1.4	0.308	4.4
H246792		1050	182.5	1.8	0.088	>10.0	10.25	<0.1	9	0.5	5.1	<0.05	2.61	0.7	0.012	0.23
H246793		830	845	1	0.042	>10.0	9.08	<0.1	7	0.4	3.3	<0.05	2.91	0.4	0.005	0.5
H246794		90	1700	1.1	<0.002	>10.0	86.8	1.7	10	1	2.8	<0.05	12.15	0.4	0.005	0.57
H246795		40	1770	0.8	0.009	>10.0	15.6	1.3	10	0.7	1.4	<0.05	3.1	<0.2	<0.005	0.56
H246796		60	2050	0.6	0.004	>10.0	8.38	<0.1	8	0.5	2.4	<0.05	2.32	<0.2	0.008	0.69
H246797		160	2140	0.7	0.006	>10.0	7.08	<0.1	9	0.5	2.8	<0.05	1.93	<0.2	<0.005	0.86
H246798		20	2380	0.6	0.022	>10.0	12.6	<0.1	9	1.1	6.7	<0.05	2.19	<0.2	<0.005	0.71
H246799		210	77.5	2.1	0.002	0.91	0.42	0.2	2	<0.2	48.7	<0.05	0.1	<0.2	0.005	0.04
H246800		70	1200	0.7	0.009	>10.0	8.61	<0.1	9	0.4	2.3	<0.05	2.41	0.2	<0.005	0.69
H246851		100	2210	0.7	0.021	>10.0	10.8	1.3	9	0.9	3.8	<0.05	2.89	0.4	<0.005	0.83
H246852		2960	18.2	160	<0.002	1.86	1.87	13.2	2	7.8	97.3	1.68	0.37	3.5	0.935	2.3

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
H246791		0.7	58	9.7	10.3	47	73
H246792		21.6	45	12.2	1.8	672	9.5
H246793		15.8	4	4.8	1.4	3970	6.4
H246794		3.3	3	0.8	0.6	7350	3.6
H246795		3.4	<1	0.7	0.3	>10000	1.6
H246796		7.8	2	1.5	0.4	>10000	4.9
H246797		3.3	<1	0.4	0.6	>10000	2
H246798		2.9	1	0.5	0.5	>10000	1.2
H246799		0.5	2	0.2	1.1	523	1.3
H246800		4	3	3	0.5	4530	2.4
H246851		4.1	2	0.3	1.8	>10000	0.8
H246852		1.6	145	87.4	19.4	101	59.2



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Total # Appendix Pages: 1
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Account: RCM

CERTIFICATE OF ANALYSIS VA08140194

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.