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EXCELLENCE IN ANALYTICAL CHEMISTRY

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 27-SEP-2008
Account: RCM

CERTIFICATE VA08122437

Project: RAU

P.O. No.: RAU-08-11

This report is for 47 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 28-AUG-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
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

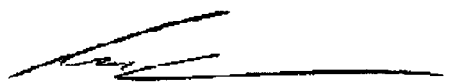
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

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

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Plus Appendix Pages

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CERTIFICATE OF ANALYSIS VA08122437

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA26 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H246178		5.03	0.09	0.23	0.56	16	790	0.29	2.31	18.15	0.05	7.59	1.6	18	0.65	3.8
H246179		5.22	0.14	0.42	0.58	25	490	0.26	4.8	17.25	0.58	7.56	1.8	19	0.73	4
H246180		4.69	1.01	0.38	1.33	2120	450	0.37	73.1	15.55	0.38	13.05	3.4	37	1.5	9.3
H246181		4.41	0.05	0.16	1.2	34	310	0.29	2.28	28	0.05	14.1	2.8	18	0.55	5.6
H246182		4.76	<0.01	0.12	2.4	89	380	0.55	0.34	23.5	0.15	38.6	50	73	0.78	10.2
H246183		4.24	<0.01	0.22	7.36	21	1400	1.21	0.1	10.15	0.57	56.7	42.5	227	4.04	97.8
H246184		5.62	0.03	0.14	9	5.3	1640	1.71	0.19	4.1	0.09	113	30.9	177	7.79	47.8
H246185		5.05	<0.01	0.08	7.48	6.6	1400	1.81	0.07	6.7	0.11	88.8	44.6	185	6.63	13.1
H246186		5.02	<0.01	0.03	6.91	5.2	1860	1.32	0.06	8.46	0.08	79.6	41.4	186	6.07	4.3
H246187		5.33	<0.01	0.04	6.66	2.6	1760	1.43	0.03	7.62	0.09	79.5	42.2	195	9.11	34.9
H246188		5.25	<0.01	0.08	6.88	2.9	1790	1.56	0.03	8.77	0.1	83.5	43.4	199	10.9	49.2
H246189		5.31	0.01	0.05	6.79	13.9	690	1.7	0.92	7.95	0.08	78.3	57.6	178	11.5	34.9
H246190		5.15	<0.01	0.01	7.24	27.1	1790	1.94	1.1	5.2	0.04	95.5	39.2	193	8.46	9.3
H246191		4.67	0.02	<0.01	7.59	33.3	530	2.82	1.31	2.73	0.03	162	20.8	168	5.53	29.6
H246192		2.68	0.03	<0.01	8.4	44	330	2.73	1.89	1.25	0.02	127	12.7	76	6.61	12.7
H246193		2.95	0.18	0.05	8.1	95.7	410	3.53	13.65	1.07	0.04	144.5	22.4	127	7.42	23.6
H246194		0.82	<0.01	0.01	0.13	14	60	0.06	0.05	19.35	0.05	2.06	1	2	0.22	1.3
H246195		5.80	0.03	0.15	0.24	345	110	0.11	42.2	14.55	0.08	6.04	0.7	3	1.08	9.8
H246196		6.14	0.58	0.5	0.22	974	80	0.06	145.5	10.35	0.06	5.37	0.8	3	1.13	78.1
H246197		5.52	0.13	0.26	2.02	888	310	0.37	42.5	12.6	0.03	9.98	2.1	9	10.8	58.6
H246198		0.15	13.75	7.63	3.62	412	660	0.94	0.6	0.23	0.08	17.85	7.9	32	5.55	44.9
H246199		5.40	0.71	0.15	0.1	1605	20	0.06	128	14.4	0.05	10.45	0.5	1	0.85	21.3
H246200		4.86	2.71	0.11	0.24	>10000	40	0.05	168.5	14.35	0.05	44.8	0.6	1	1.78	3.1
H246201		4.16	1.39	0.2	0.13	>10000	20	<0.05	237	6.88	0.03	9.26	0.6	<1	0.92	8.5
H246202		5.84	1.55	0.16	0.26	>10000	50	0.09	414	12.95	0.04	70.2	0.8	1	2.17	4.5
H246203		5.75	0.69	0.1	0.45	>10000	80	0.11	151.5	12.6	0.03	33	0.9	2	4.11	3.9
H246204		6.25	0.36	0.07	0.22	9530	40	0.05	101.5	13.35	0.05	40.6	0.7	1	1.5	2.4
H246205		5.29	0.39	0.08	0.06	>10000	10	<0.05	143	13.8	0.05	44.9	0.4	<1	0.62	2.3
H246206		5.12	0.22	0.07	0.07	3890	10	<0.05	125.5	13.75	0.05	47.6	0.5	1	0.87	2.7
H246207		7.19	0.47	0.09	0.11	>10000	10	<0.05	126	13.15	0.06	20.4	0.6	<1	1.01	2.9
H246208		5.96	0.10	0.08	0.09	1730	10	<0.05	198.5	13.4	0.05	12.2	0.5	<1	1.06	2.2
H246209		5.47	0.08	0.09	0.03	939	10	<0.05	186.5	12.9	0.1	11.4	0.6	<1	0.57	3.1
H246210		6.18	0.07	0.09	0.08	674	10	<0.05	191	14.35	0.07	21.6	0.6	<1	0.87	2.1
H246211		5.89	0.14	0.09	0.09	657	10	<0.05	218	13.9	0.09	10.4	0.5	<1	0.67	1.9
H246212		0.78	<0.01	0.01	0.07	22	200	0.11	1.36	18.4	0.07	1.49	0.8	1	0.13	1
H246213		6.00	0.07	0.11	0.14	1205	10	0.08	133	13.1	0.05	7.14	0.7	<1	0.68	1.9
H246214		6.01	0.08	0.09	0.07	609	10	<0.05	430	13.45	0.06	43.9	0.6	<1	0.82	2.3
H246215		5.77	0.06	0.15	0.08	629	<10	<0.05	1235	12.6	0.04	10.4	0.9	<1	0.69	3
H246216		6.00	0.09	0.2	0.05	856	<10	0.24	867	11.6	0.05	12.75	1.8	<1	0.55	5.2
H246217		5.29	0.08	0.13	0.11	1985	10	<0.05	162.5	13.6	0.11	15.75	1.3	1	0.59	3.1



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CERTIFICATE OF ANALYSIS VA08122437

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		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	10
H246178		0.99	1.43	<0.05	0.3	0.015	0.24	4.2	4.2	11.4	354	0.49	0.02	2.8	6.7	40
H246179		1.23	1.49	<0.05	0.3	0.033	0.25	4.1	4	10.85	611	0.61	0.01	3.1	7.1	30
H246180		7.05	4.87	0.15	0.4	0.129	0.57	5.4	8.7	8.1	3340	0.56	0.01	4	10.8	70
H246181		1.35	2.96	0.06	0.5	0.026	0.54	7.9	3.2	0.94	392	0.49	0.01	7.3	11.4	60
H246182		2.53	6.15	0.09	1.4	0.028	1.18	18.7	2.8	1.11	1210	0.68	0.02	15.1	116.5	650
H246183		5.01	19.8	0.15	1.3	0.075	3.12	27.5	13.9	2.55	1615	0.69	0.14	19.7	150	1610
H246184		8.44	23.6	0.22	0.7	0.078	2.92	60	20.2	1.9	1075	1.01	0.29	60.4	180	2820
H246185		8.85	24.2	0.23	0.7	0.072	3.24	45.8	17.8	1.94	1455	0.37	0.37	42.4	239	3680
H246186		8.47	18.4	0.18	0.4	0.061	2.74	40.5	17.4	2.45	1520	0.18	0.6	32.8	256	2720
H246187		6.47	16.4	0.17	1.9	0.054	2.62	40.5	21	4.32	1775	0.15	0.44	45	202	1780
H246188		7.04	19.9	0.19	1.5	0.052	2.62	42.2	23.4	3.46	1615	0.25	0.21	50.2	243	2340
H246189		6.32	19.6	0.19	0.8	0.059	3.26	39.1	28.7	2.84	1085	0.63	0.15	36.7	248	2470
H246190		6.7	19.7	0.19	1.5	0.049	3.63	47.5	24.3	2.44	524	0.53	0.14	49.7	160	1870
H246191		6.5	24.1	0.22	1.4	0.083	4.06	75.4	19.9	1.07	221	0.76	0.07	99.2	43.1	2870
H246192		6.54	28.1	0.2	2.2	0.071	4.39	60.3	28.3	1.13	75	0.69	0.08	76.5	33.9	2160
H246193		8.36	30.2	0.27	1	0.068	4.18	62.8	40.5	1.13	67	0.97	0.06	115.5	48.3	2270
H246194		0.43	0.45	0.07	<0.1	0.009	0.06	1	1.3	11.85	174	0.08	<0.01	1	2.9	190
H246195		8.52	1.35	0.19	0.1	0.027	0.15	3	2.3	8.93	1175	0.08	0.01	1.2	3.1	80
H246196		17.15	1.29	0.36	0.1	0.054	0.15	2.2	1.5	5.76	1415	0.13	0.01	1.5	3	80
H246197		11.45	10.15	0.25	1.2	0.035	1.56	4.6	9.7	7.95	829	0.19	0.02	17.8	16.8	280
H246198		3.37	7.57	0.18	2	0.031	2.76	8.7	50.1	0.2	168	5.82	0.08	6.6	15.7	510
H246199		10.95	0.75	0.34	0.1	0.062	0.07	4.9	1.8	8.41	1870	0.07	0.01	0.5	2.7	70
H246200		11.25	1.58	1.41	0.2	0.074	0.18	25.7	2.3	8.02	2340	0.07	0.01	1.7	2.5	130
H246201		25.5	1.02	2.5	0.1	0.058	0.09	4.9	0.8	3.91	910	0.09	<0.01	0.9	3.1	60
H246202		14.45	1.96	1.69	0.2	0.073	0.21	42.2	2.5	7.47	2190	0.07	0.01	1.3	3.3	250
H246203		15.2	3.17	1.44	0.3	0.07	0.38	19	3.3	6.78	2150	0.06	0.01	2.1	3.6	370
H246204		12.15	1.5	1.11	0.1	0.058	0.15	23.7	2.3	7.73	2510	0.06	0.01	1.3	3.5	140
H246205		13.65	0.67	1.43	<0.1	0.061	0.04	27.2	1.6	8.05	2430	0.07	<0.01	0.4	1.3	120
H246206		10.95	0.75	0.55	<0.1	0.051	0.05	28.1	1.6	7.89	2370	0.06	0.01	0.4	2.4	110
H246207		14.25	0.93	1.89	0.1	0.066	0.08	11.1	1.5	7.56	2370	0.05	<0.01	0.8	2.5	130
H246208		12.75	0.77	0.36	0.1	0.038	0.06	6.4	1.4	7.86	2110	0.08	0.01	0.6	1.8	140
H246209		13.8	0.43	0.29	<0.1	0.047	0.02	5.8	1.4	7.66	2160	0.06	0.01	0.4	1.5	90
H246210		12.75	0.72	0.27	0.1	0.052	0.05	12.4	1.8	8.27	2420	0.09	0.01	0.6	1.5	130
H246211		11.85	0.75	0.25	0.1	0.069	0.04	5	1.6	8.13	2550	0.05	0.01	0.6	1.2	130
H246212		0.42	0.27	0.05	<0.1	<0.005	0.03	0.7	1.2	11.7	177	0.06	0.01	0.4	1.9	200
H246213		12.65	1.05	0.31	0.1	0.046	0.06	3.1	1.5	7.8	2090	0.08	0.01	1	2	150
H246214		12.25	0.74	0.26	<0.1	0.048	0.04	26.6	1.4	7.91	2240	0.08	0.01	0.4	2.9	160
H246215		12.5	1.2	0.34	0.1	0.029	0.03	5.1	1.9	7.01	1425	0.1	0.01	0.5	9.6	190
H246216		15.4	0.91	0.41	<0.1	0.036	0.02	6.6	1.9	7.57	1645	0.09	0.01	0.4	12.7	90
H246217		13.25	0.87	0.2	0.1	0.046	0.02	9.1	1.6	8.29	2500	0.12	<0.01	0.6	3.1	130



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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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		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
H246178		5.6	9.7	<0.002	1.07	2.65	2.2	2	0.4	56.4	0.15	0.08	0.6	0.068	0.27
H246179		21.7	13.5	<0.002	1.24	2.63	2.2	2	3.1	58.5	0.19	0.06	0.6	0.075	0.26
H246180		27.3	23	<0.002	3.79	7.24	3.9	3	0.8	135.5	0.21	0.05	0.9	0.103	0.58
H246181		4.6	15.3	0.002	1.31	2.62	2.6	2	0.6	256	0.38	<0.05	1.5	0.121	0.34
H246182		6	26.6	<0.002	2.18	2.02	6.8	2	0.7	214	0.78	<0.05	2.7	0.284	0.26
H246183		15.8	88	<0.002	0.54	0.77	23.7	1	1.3	163	1.19	<0.05	4.1	0.886	0.41
H246184		7.4	107	<0.002	0.02	1.13	19.5	2	1.8	116.5	3.34	<0.05	9.7	1.055	0.41
H246185		5.6	112	<0.002	0.01	1.36	19.7	1	1.6	141	2.41	<0.05	7.2	0.899	0.35
H246186		3.9	88.9	<0.002	0.06	0.95	18.2	1	1.5	172.5	1.89	<0.05	6.3	0.891	0.29
H246187		3.7	94.6	<0.002	0.05	0.52	18.6	1	1.9	144	2.51	<0.05	7.6	0.902	0.43
H246188		3.8	116.5	<0.002	0.17	0.54	20	1	2	159.5	2.6	<0.05	7.3	1.005	0.58
H246189		3.2	120.5	<0.002	3.31	0.69	20.1	1	4.9	166	2.03	<0.05	6.9	0.791	0.75
H246190		4.4	119.5	<0.002	6.81	0.78	18	2	8	129.5	2.67	0.05	8.3	0.777	0.6
H246191		5.5	106.5	<0.002	6.81	1.23	17.9	2	3.5	41.1	5.08	<0.05	13.8	0.783	0.51
H246192		3.5	131.5	<0.002	6.98	1.88	18.4	2	4.2	27.2	4.02	<0.05	16.1	0.753	0.55
H246193		6.9	127	<0.002	8.97	3.35	13.9	3	6.6	17.7	6.17	0.07	11.5	0.629	0.67
H246194		1.6	2.3	<0.002	0.05	<0.05	0.4	1	1.9	49.4	0.06	<0.05	0.2	0.008	<0.02
H246195		4.2	11.6	<0.002	9.65	2.96	0.8	7	0.3	73.2	0.06	0.08	0.2	0.014	0.08
H246196		5.2	14.7	<0.002	>10.0	8.51	0.3	11	0.5	61.6	0.08	0.16	0.2	0.015	0.09
H246197		2.6	150	<0.002	8.03	1.22	1.3	4	2.9	60.5	0.98	0.14	3.5	0.128	0.72
H246198		5.5	113.5	<0.002	2.17	42.5	6.9	16	2.5	70.5	0.42	0.15	1.5	0.289	3.81
H246199		3.9	9.2	<0.002	>10.0	2.43	0.4	3	0.3	88.7	<0.05	0.15	0.2	0.005	0.07
H246200		2.4	18.6	<0.002	>10.0	5.43	0.3	3	0.4	111	0.09	0.53	1.9	0.014	0.1
H246201		3	10.4	<0.002	>10.0	10.8	<0.1	7	0.5	46.5	<0.05	1.72	0.3	0.01	0.08
H246202		3.6	24.6	0.002	>10.0	7.96	0.3	4	0.7	104.5	0.07	0.68	1.3	0.024	0.15
H246203		2.3	41.1	<0.002	>10.0	5.3	0.4	4	1.2	97.3	0.12	0.35	0.9	0.04	0.23
H246204		3.3	14.8	<0.002	>10.0	3.15	0.3	3	0.5	102.5	0.07	0.23	0.6	0.018	0.11
H246205		2.9	6.5	<0.002	>10.0	4.13	<0.1	5	0.2	109.5	<0.05	0.47	0.4	<0.005	0.05
H246206		3.3	9.8	0.002	>10.0	2.14	0.1	3	0.3	103.5	<0.05	0.2	0.4	0.005	0.1
H246207		3.6	11.5	0.003	>10.0	4.99	<0.1	4	0.4	95.8	<0.05	0.68	<0.2	0.011	0.11
H246208		4.5	11.6	0.002	>10.0	2.7	0.1	3	0.4	85.9	<0.05	0.24	<0.2	0.011	0.1
H246209		5.8	3.7	0.002	>10.0	3.22	<0.1	3	0.4	90.1	<0.05	0.19	<0.2	<0.005	0.06
H246210		5.6	8.8	<0.002	>10.0	2.47	0.3	4	0.3	97.6	<0.05	0.22	0.2	0.009	0.06
H246211		4.9	7.8	<0.002	>10.0	6.25	0.3	3	0.4	108.5	<0.05	0.2	<0.2	0.009	0.05
H246212		1.5	1.2	<0.002	0.08	0.05	0.2	1	0.9	46.1	<0.05	<0.05	0.6	<0.005	<0.02
H246213		3.6	9.3	<0.002	>10.0	3.01	0.2	3	0.5	91.8	0.05	0.13	<0.2	0.017	0.06
H246214		5.6	8.6	<0.002	>10.0	6.56	0.2	3	0.3	98.2	<0.05	0.31	0.2	0.006	0.05
H246215		9.2	6	0.003	>10.0	11.65	<0.1	4	1.5	68	<0.05	0.67	<0.2	0.009	0.04
H246216		10.4	3.2	0.01	>10.0	7.87	<0.1	4	1	64.8	0.05	0.54	<0.2	0.005	0.16
H246217		5.4	3.4	0.006	>10.0	3.43	0.8	4	0.4	83.8	<0.05	0.26	<0.2	0.009	0.16



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Project: RAU

Page: 2 - D

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 27-SEP-2008

Account: RCM

CERTIFICATE OF ANALYSIS VA08122437

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
H246178		12	1.3	6.1	12	9.9
H246179		12	10.3	5.2	163	10.8
H246180		22	33.3	8.7	105	16.4
H246181		16	1.1	6.7	8	22
H246182		57	0.5	18.1	13	55.9
H246183		245	0.2	18.9	118	48.9
H246184		145	0.5	26.6	145	31.5
H246185		123	0.3	21.7	137	27.3
H246186		88	0.3	17.6	140	16
H246187		145	0.3	20	120	73.1
H246188		128	0.2	20.9	104	58.9
H246189		125	0.5	20	54	32.5
H246190		152	1.5	22.6	39	60
H246191		165	3.2	37.6	18	59.1
H246192		147	6.5	29.7	12	84.2
H246193		147	9	35.3	13	42.7
H246194		2	0.1	1.8	12	1.6
H246195		8	33	5.6	12	5.1
H246196		7	90.1	5.4	11	4.6
H246197		24	10.1	8.2	12	45.3
H246198		55	9.7	10.5	43	72.7
H246199		7	93	7.7	10	2.4
H246200		8	45.3	9	12	5.3
H246201		6	85	5	3	3.1
H246202		9	215	8.8	11	7.2
H246203		11	59.3	7.7	10	10.9
H246204		7	113	7.2	11	5.4
H246205		5	57.5	7.1	10	1.7
H246206		5	283	7.8	11	2
H246207		5	292	6.2	10	3.7
H246208		5	219	6.9	11	3.3
H246209		4	183	6.6	14	1.5
H246210		7	72.2	8.7	13	2.8
H246211		8	18.9	7.9	16	2.8
H246212		1	0.6	0.9	13	<0.5
H246213		7	41.6	7.5	9	5.2
H246214		7	22	7.1	11	2
H246215		5	35.8	8.2	13	2.5
H246216		4	990	8	15	1.9
H246217		7	20.1	7	45	3.1



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Project: RAU

Page: 3 - A

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 27-SEP-2008

Account: RCM

CERTIFICATE OF ANALYSIS VA08122437

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
H246218		5.32	0.13	0.11	0.08	1655	10	<0.05	597	11.55	0.86	99.6	2.5	<1	0.35
H246219		5.19	0.11	0.77	0.08	2160	10	<0.05	129.5	14.2	0.08	34.6	1.2	1	0.4
H246220		6.20	1.62	0.2	0.06	>10000	10	<0.05	346	12.55	0.1	37.1	2.2	<1	0.4
H246221		3.48	0.02	0.05	1.15	60	160	0.4	2.95	30.5	0.09	16.2	6.2	9	4.26
H246222		4.50	0.01	0.05	0.86	28	270	0.48	1.42	29.1	0.16	13.5	9.9	8	1.27
H246223		0.15	13.95	9.58	3.68	404	680	0.62	1.25	0.44	0.09	17.7	8	30	5.81
H246224		4.18	<0.01	0.36	6.98	6.6	1280	1.73	1.63	4.95	0.4	105.5	18.2	52	12.6



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Project: RAU

Page: 3 - B

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 27-SEP-2008

Account: RCM

CERTIFICATE OF ANALYSIS VA08122437

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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		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
H246218		16.25	1.2	0.31	0.1	0.051	0.01	63.7	4.6	7.65	3290	0.17	<0.01	0.3	9
H246219		11.5	0.83	0.19	0.1	0.078	0.02	23	1.9	8.43	2820	0.11	<0.01	0.5	6.5
H246220		14.6	0.66	0.36	0.1	0.105	0.02	23.2	2.6	7.24	2330	0.36	<0.01	0.6	6.4
H246221		2.07	4.35	0.08	0.2	0.032	0.62	9	2.9	1.02	591	0.08	<0.01	8.2	20.1
H246222		4.66	3.38	0.1	0.1	0.015	0.44	7.9	2.4	0.96	307	0.47	<0.01	8.1	25.2
H246223		3.49	7.37	0.16	1.8	0.032	3.11	8.9	45.6	0.2	179	5.71	0.07	7.1	16.5
H246224		12.55	30.7	0.32	0.4	0.112	3.64	52	17.1	2.14	234	0.26	0.2	60.5	93.4



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Project: RAU

Page: 3 - C

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 27-SEP-2008

Account: RCM

CERTIFICATE OF ANALYSIS VA08122437

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	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
	LOR	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
H246218		5.8	1.2	0.045	>10.0	8.57	4.5	5	1.4	58.5	<0.05	0.7	0.7	<0.005	0.62
H246219		6.4	2.4	<0.002	>10.0	2.58	0.6	4	0.6	90.8	<0.05	0.16	0.3	0.006	0.04
H246220		7.8	2.4	0.002	>10.0	10.45	0.6	6	0.4	84.7	<0.05	0.77	0.3	0.01	0.09
H246221		1.8	52.6	<0.002	0.96	0.33	3	3	3.6	95.4	0.46	<0.05	0.8	0.244	0.3
H246222		5.8	15.3	<0.002	1.24	0.49	2	2	0.5	133.5	0.44	<0.05	0.6	0.223	0.06
H246223		5.5	106.5	<0.002	2.2	41.5	7.1	16	2.5	68.3	0.45	0.13	1.5	0.301	3.82
H246224		20.4	130	<0.002	0.04	0.97	16.8	3	2.2	70.1	3.7	<0.05	4.6	1.89	0.24



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Project: RAU

Page: 3 - D

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 27-SEP-2008

Account: RCM

CERTIFICATE OF ANALYSIS VA08122437

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
H246218		5	3700	11.1	239	1.7
H246219		6	102.5	6.8	19	2.6
H246220		7	205	8.5	17	2.1
H246221		30	3.2	6.1	16	10
H246222		26	10.2	6.4	14	5.2
H246223		55	9.4	10.5	42	62.2
H246224		158	2.9	13.8	113	17.2



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je: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 27-SEP-2008

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CERTIFICATE OF ANALYSIS VA08122437

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.