



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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CERTIFICATE AS08151370

Project: ALLAMBI EL 25347

P.O. No.: 266228

This report is for 21 Rock samples submitted to our lab in Alice Springs, NT, Australia on 22-OCT-2008.

The following have access to data associated with this certificate:

MICHAEL GREEN

RUDY LENNARTZ

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
WSH-22	"Wash" pulverizers
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain
PUL-QC	Pulverizing QC Test
CRU-21	Crush entire sample >70% -6 mm

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
AU-AA23	Au 30g FA-AA finish
	AAS

To: ATOM ENERGY LTD
ATTN: RUDY LENNARTZ
PO BOX 3896
ALICE SPRINGS WA

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

Signature:

Wayne Abbott, Operations Manager, Western Australia



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg	PUL-QC Pass75um %	AU-AA23 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 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
FLUSH A		<0.02		<0.005	0.04	5.6	0.3	940	1.14	<0.01	0.93	0.03	3	14	1.13
FLUSH B		<0.02		<0.005	0.03	5.32	<0.2	910	1.04	<0.01	0.88	0.03	3.2	11	1.11
FLUSH C		<0.02		<0.005	0.02	5.38	<0.2	900	1.05	<0.01	0.91	0.02	3.2	11	1.12
ALRC0001		1.00		<0.005	2.26	0.98	60	340	10.4	0.08	0.5	0.24	8.54	76	0.26
ALRC0002		1.43		<0.005	2.11	0.72	53.1	220	8.69	0.07	0.11	0.29	125	25	0.17
ALRC0003		1.09		<0.005	1.01	1.74	84.6	760	5.56	0.3	0.71	0.34	37.8	70	0.41
ALRC0004		1.08		<0.005	0.23	4.26	5	370	2	0.41	2.73	0.1	82.4	22	1.3
ALRC0005		1.13		<0.005	0.32	0.7	16.6	300	13.5	0.09	0.08	0.16	28.4	53	0.24
ALRC0006		1.47		<0.005	0.05	1.48	2.6	130	0.74	0.06	0.04	0.03	36.4	19	0.54
ALRC0007		1.43		<0.005	0.2	0.83	3.9	510	5.3	0.06	0.08	0.08	16.75	13	0.58
ALRC0008		1.19	98.2	<0.005	0.37	1.14	4.3	1030	7.34	0.07	0.08	0.08	34.1	23	0.79
ALRC0009		1.03		<0.005	0.11	0.58	6.3	620	6.35	0.06	0.19	0.08	29	15	0.25
ALRC0010		1.58		<0.005	0.06	5.52	1.8	4390	1.22	1.39	0.22	0.05	160.5	18	5.17
ALRC0011 A		0.92		<0.005	0.06	0.97	10	1040	5.25	0.19	17.85	2.5	35.7	5	2.59
ALRC0011 B		1.18		<0.005	0.04	9.69	1.4	320	2.19	0.8	0.11	0.02	127.5	53	4.51
ALRC0012		1.74		<0.005	0.14	2.1	10.4	2420	34.6	0.43	4.49	13.35	399	2	5.55
ALRC0013		1.28		<0.005	0.1	1.5	22	6460	33.5	0.22	11.05	9.35	149.5	2	12.5
ALRC0014		2.31		<0.005	0.05	3.64	90.2	750	1.45	0.23	0.1	0.12	31.7	328	1.1
ALRC0015		1.48		<0.005	0.08	0.39	12.5	130	4.42	0.15	3.46	0.44	31.8	11	0.5
ALRC0016		1.64		<0.005	0.04	0.16	5	210	2.88	0.02	14.55	0.38	9.82	1	0.54
ALRC0017		1.78		<0.005	0.07	1.56	28.1	520	0.45	0.07	0.48	0.06	25.3	145	0.12



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CERTIFICATE OF ANALYSIS AS08151370

Sample Description	Method Analyte Units LOR	ME-MS61 Cu ppm	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
FLUSH A		5.5	1.11	10.2	0.07	1.1	0.015	3.02	12.1	5.3	0.22	164	0.35	1.38	1.9	6.9
FLUSH B		4.7	1.03	10.05	0.07	1.1	0.013	2.82	12.1	4.9	0.2	150	0.82	1.31	1.8	7.7
FLUSH C		4.4	0.99	10.6	0.07	1.1	0.013	2.83	12.4	5.1	0.22	150	0.34	1.33	2	7.4
ALRC0001		119.5	18.85	2.56	0.14	1.1	0.025	0.08	4.3	3.3	0.25	244	1.64	0.1	1.3	35.7
ALRC0002		74.7	22.5	2.15	0.18	0.9	0.009	0.08	10.9	2.7	0.06	1890	3.41	0.02	1.1	132.5
ALRC0003		28.2	26.9	5.8	0.24	3.2	0.052	0.13	17.7	3.9	0.19	345	4	0.02	3.9	24.9
ALRC0004		19.9	2.4	10.05	0.1	3.6	0.035	0.82	34.5	10.1	0.17	149	0.63	0.09	7.9	12.7
ALRC0005		41	23.8	2.99	0.16	0.9	0.022	0.03	5.7	3.1	0.04	892	2.13	0.01	1.2	98.5
ALRC0006		6.4	1.04	1.93	<0.05	1.7	0.005	0.07	16.8	11.4	0.04	79	0.51	0.01	2.7	4
ALRC0007		18.6	19.8	2.52	0.21	1	0.018	0.09	7.2	5.1	0.05	503	0.65	0.02	1.6	21.5
ALRC0008		28.8	18.1	2.96	0.22	1.2	0.016	0.09	13.6	4.1	0.04	486	1.15	0.02	1.9	37.5
ALRC0009		12.9	20.9	1.69	0.23	1.3	0.016	0.05	6.7	4.2	0.08	645	3.71	0.03	1.5	8.4
ALRC0010		14.2	0.8	16.25	0.15	7.7	0.032	0.76	82.8	16.3	0.34	159	0.35	0.09	17	8.6
ALRC0011 A		16.9	2.03	2.61	0.06	1.3	0.022	0.82	16.1	4.6	6.65	11000	0.64	0.04	2.3	62.4
ALRC0011 B		7.1	0.82	23.4	0.09	5.5	0.057	1.3	66.3	22.5	0.29	45	0.36	0.07	21.5	3.7
ALRC0012		536	16.45	10.75	0.35	2.1	0.027	2.3	58.3	7.2	0.34	>100000	4.48	0.1	3.6	350
ALRC0013		533	6.31	11.55	0.25	1.4	0.02	1.86	63.5	6.5	0.72	>100000	19.1	0.17	3.1	988
ALRC0014		40.2	35.7	8.71	1.4	9.2	0.247	0.15	8.1	9.1	0.06	1635	11.3	0.02	3.4	24.4
ALRC0015		226	40.6	2.62	0.6	0.3	0.014	0.1	10.1	3.3	0.2	5060	2.62	0.02	0.6	62.3
ALRC0016		27.9	13.05	1.39	0.13	0.1	<0.005	0.07	5.2	2.8	8.93	6070	1.55	0.02	0.3	29
ALRC0017		20.2	40.6	6.13	1.76	6.3	0.148	0.03	11.9	1.8	0.17	210	4.26	0.02	3.5	9



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Sample Description	Method Analyte Units LOR	ME-MS61 P ppm	ME-MS61 Pb ppm	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm
FLUSH A		120	23.4	115	0.003	<0.01	0.08	3.3	1	0.6	222	0.14	<0.05	4.4	0.061	0.42
FLUSH B		110	23.5	111.5	0.003	<0.01	<0.05	3.2	1	0.6	214	0.13	<0.05	4.6	0.054	0.43
FLUSH C		120	24.1	113.5	0.002	<0.01	<0.05	3.6	1	0.6	214	0.14	<0.05	4.8	0.058	0.43
ALRC0001		1320	15.2	4.5	0.002	0.05	0.74	14.2	2	0.6	46.5	0.13	<0.05	4.5	0.032	0.05
ALRC0002		1460	64.2	2.9	0.003	0.09	0.18	12.5	2	0.4	46.2	0.11	0.05	3.9	0.028	0.21
ALRC0003		2430	58.9	8.7	0.003	0.08	0.31	6.9	2	1.5	77.1	0.38	<0.05	18.1	0.104	0.06
ALRC0004		430	197.5	37.1	0.002	0.35	0.3	7.9	1	2.8	106.5	0.73	<0.05	14.5	0.259	0.18
ALRC0005		3260	19.8	2.1	0.003	0.03	0.18	16.6	2	0.3	15.6	0.1	<0.05	3.6	0.029	<0.02
ALRC0006		130	24.7	6.1	<0.002	0.01	0.08	4	1	0.5	26	0.23	<0.05	5.9	0.069	0.04
ALRC0007		3510	7.7	6.6	<0.002	0.03	0.14	5.5	1	0.7	25.3	0.18	0.1	4.2	0.042	0.02
ALRC0008		2780	26.7	7.3	<0.002	0.05	0.11	10	2	0.7	50.1	0.19	0.1	4.1	0.049	0.04
ALRC0009		3040	24	3.5	<0.002	0.06	0.11	6.1	1	0.6	52.6	0.15	0.14	5	0.037	<0.02
ALRC0010		480	106.5	52.5	0.003	0.12	0.36	7.6	2	5.7	162.5	1.71	<0.05	31	0.422	0.45
ALRC0011 A		260	81.8	28.1	0.002	0.02	0.14	3.2	1	0.7	162.5	0.22	<0.05	5.7	0.06	0.59
ALRC0011 B		340	247	81.8	<0.002	0.09	0.51	14.5	1	8.5	133.5	2.04	<0.05	23.1	0.557	0.4
ALRC0012		960	549	68.3	0.004	0.07	0.25	7.9	8	1.3	298	0.43	0.12	8.1	0.089	4.67
ALRC0013		540	158	63.3	0.006	0.12	0.25	4.2	6	1.1	563	0.33	0.07	5.6	0.075	13.35
ALRC0014		180	276	11	<0.002	0.11	1.1	21.7	17	1	40.4	0.28	0.24	90.9	0.09	0.13
ALRC0015		590	66.8	5.8	<0.002	0.12	0.17	15.9	2	0.2	66.9	0.05	0.16	2	0.014	0.19
ALRC0016		110	6.5	3.5	<0.002	0.02	<0.05	3.9	1	<0.2	87	<0.05	0.05	0.7	0.006	0.33
ALRC0017		360	12.6	1.9	<0.002	0.06	1.28	1.7	6	0.9	91	0.32	0.18	45.9	0.08	<0.02



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Plus Appendix Pages
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Sample Description	Method Analyte Units LOR	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm
FLUSH A		0.7	17	0.2	5.8	11	39.3
FLUSH B		0.7	15	0.1	5.5	9	38.3
FLUSH C		0.7	16	0.1	6.1	10	38.6
ALRC0001		23	174	1.8	10.6	380	41.4
ALRC0002		10	51	0.3	25.2	1160	30.8
ALRC0003		5.6	203	1	11.7	372	106.5
ALRC0004		2.9	59	1.4	16.4	79	123.5
ALRC0005		6.5	92	0.5	36.6	325	34.9
ALRC0006		1	10	0.3	27.8	12	46.7
ALRC0007		2.4	21	0.5	16.7	137	28.5
ALRC0008		3.7	31	0.5	27.7	134	34.6
ALRC0009		2.1	43	0.4	11.8	67	39.3
ALRC0010		3.7	32	3.2	29.8	14	219
ALRC0011 A		1.8	51	0.6	18.7	326	39.8
ALRC0011 B		3.6	60	5	19.9	10	158.5
ALRC0012		18.4	92	1.5	244	2900	52.6
ALRC0013		10.3	169	1.4	111.5	3480	39.7
ALRC0014		3.2	104	0.9	14.3	503	279
ALRC0015		2.8	69	0.4	31.6	344	8
ALRC0016		2.1	39	0.2	12	112	3.5
ALRC0017		8.2	344	1.6	8.8	59	181.5



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CERTIFICATE COMMENTS

Method

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.