



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty Ltd

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

Page: 1
Finalized Date: 27-OCT-2008
Account: NUPRES

CERTIFICATE AS08133618

Project: Alieron / Nappleg

P.O. No.: 2008/11 (266176)

This report is for 56 Rock samples submitted to our lab in Alice Springs, NT, Australia on 22-SEP-2008.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-02	Remote Lab Surcharge
LEV-01	Waste Disposal Levy
WSH-22	"Wash" pulverizers
PUL-23	Pulv Sample - Split/Retain
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: **NUPOWER RESOURCES LTD**
ATTN: WARRICK RAFFERTY
GPO BOX 2552
DARWIN NT 0801

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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Plus Appendix Pages

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CERTIFICATE OF ANALYSIS AS08133618

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
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
FLUSH A		<0.01	2.72	0.2	480	0.66	<0.01	0.48	<0.02	14.35	1.7	6	0.58	2.8	0.74
FLUSH B		0.02	4.64	0.7	830	1.08	0.01	0.84	0.02	23.1	3.3	20	0.99	11	1.58
FLUSH C		0.01	4.71	<0.2	840	1.1	<0.01	0.84	0.02	23.3	3	23	0.99	4.6	1.32
12058		0.01	5.64	0.4	470	2.7	0.02	0.37	<0.02	66.1	4.6	9	3.47	3.3	1.05
12059		<0.01	2.96	0.8	340	0.69	0.12	0.14	<0.02	73.8	2.7	10	1.09	4.8	1.05
12060		<0.01	2.86	0.7	300	0.7	0.15	0.11	<0.02	90.8	2.3	10	1.45	2.9	0.93
12061		<0.01	2.91	0.4	290	0.66	0.12	0.11	<0.02	50	1.8	11	1.39	3.6	0.77
12062		<0.01	3.06	0.4	310	0.68	0.13	0.13	<0.02	45.3	1.7	11	1.39	2.4	0.69
12063		0.03	2.37	<5	320	0.69	0.02	16.65	0.04	36.2	3.5	7	0.72	5.7	0.69
12064		0.04	4.41	<0.2	590	1.19	0.01	9.26	0.02	59.5	4.5	4	1.24	4.2	1.28
12065		<0.01	3.23	0.7	340	0.98	0.3	0.32	<0.02	42.1	3.6	18	2.17	4.9	1.36
12066		<0.01	3.08	0.6	320	0.73	0.12	0.18	<0.02	35.3	2.3	14	1.85	2.9	0.81
12067		<0.01	0.14	<5	170	0.12	<0.01	20.1	0.02	66.9	0.7	1	0.1	1.8	0.15
12068		0.08	6.68	0.4	270	6.5	0.9	0.67	<0.02	118	2.1	17	14.5	6.9	1.21
12069		0.02	7.06	0.8	100	7.43	0.73	0.62	<0.02	15.35	1.1	6	16.85	5.2	0.49
12070		0.03	6.88	0.8	310	5.63	0.27	0.57	<0.02	139	3.2	7	15.05	5.9	1.67
12071		<0.01	4.18	0.7	40	14.55	0.18	0.1	<0.02	7.97	0.7	7	15.5	2.3	0.69
12072		<0.01	8.15	0.5	110	2.39	0.4	0.08	<0.02	2.65	0.5	2	14.5	2.8	0.28
12073		0.06	7.63	0.8	300	5.92	0.33	0.74	<0.02	148	3.7	12	16.85	4.1	1.91
12074		<0.01	5.09	0.9	60	49.2	4.89	0.19	<0.02	46.7	1.1	6	26.5	2.5	0.97
12075		0.01	5.19	0.9	210	4.34	1.37	0.27	<0.02	41.4	1.6	8	12.55	4.5	0.76
12076		<0.01	4.92	0.8	250	3.78	0.55	0.24	<0.02	89	1.4	12	9.56	2.6	0.69
12077		0.03	6.73	0.3	280	5.2	0.39	0.68	<0.02	136.5	3.3	9	15.2	3.5	1.54
12078		<0.01	5.21	0.7	200	4.13	0.84	0.23	<0.02	39.1	1.6	4	10.25	2.8	0.64
12079		0.07	7.15	0.8	490	2.38	0.42	0.74	0.02	145.5	4.8	9	9.15	6.6	2.21
12080		0.05	6.76	1.2	270	3.08	1.58	0.73	<0.02	218	4.5	4	14.45	14.6	1.76
12081		0.04	6.56	0.2	360	2.56	0.15	0.75	<0.02	95.5	4.5	10	7.87	9	1.94
12082		0.05	7	0.9	260	3.36	0.43	0.81	0.03	250	4.2	7	11.6	7.7	1.63
12083		0.04	6.63	0.9	230	3.3	0.43	0.79	0.15	249	4	3	11.45	9.3	1.56
12084		0.04	6.36	<0.2	440	2.3	0.12	0.71	<0.02	213	3.2	3	7.55	4	1.48
12085		0.04	6.71	1	400	3.67	0.29	0.86	<0.02	237	3.4	5	10.5	6.3	1.54
12086		0.04	6.51	0.9	330	4.47	0.68	0.77	<0.02	207	3	6	17	5	1.58
12087		0.04	6.99	0.5	320	3.17	0.14	0.79	0.02	195	3.7	8	7.58	4.3	1.66
12088		0.02	6.28	0.2	230	3.33	0.15	0.74	0.02	177	2.8	2	7.16	5.5	1.36
12089		0.01	6.35	0.5	240	2.9	0.25	0.7	0.02	179.5	3	4	8.38	5.7	1.49
12090		0.04	5.25	0.5	380	2.8	0.23	0.41	0.02	66.5	3.1	5	7.36	2.7	1.49
12091		0.01	6.74	0.5	570	3.25	0.15	0.54	<0.02	69.1	2.5	3	7.99	2.4	1.21
12092		0.01	6.08	0.4	770	2.44	0.11	0.73	<0.02	125.5	5.4	8	3.18	9.5	1.94
12093		0.03	6.05	0.2	220	3.99	0.09	0.69	<0.02	105.5	5.4	7	22.2	4.6	2.01
12094		<0.01	4.99	0.3	90	3.01	<0.01	0.03	<0.02	81.9	2.4	5	7.98	2.2	1.63



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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
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
FLUSH A		<0.05	0.8	0.007	1.48	7.8	2.8	0.12	113	0.13	0.7	1	3.9	60	14.8	60.4
FLUSH B		0.05	1.3	0.011	2.55	14.1	4.7	0.2	212	1.37	1.18	2	10.2	110	23.7	103
FLUSH C		0.06	1.2	0.011	2.56	14.1	4.9	0.2	200	0.24	1.19	1.9	6.5	110	23.9	105.5
12058		0.09	2.9	0.008	2.97	27.9	17	1.08	281	0.16	2.21	6.6	4.7	250	24.8	282
12059		0.09	1.2	0.015	2.13	36.6	3.8	0.13	86	0.43	0.44	3.5	5.2	180	15.3	134.5
12060		0.11	2	0.016	2.06	43.9	4.1	0.12	81	0.19	0.39	4.7	3.8	160	15.9	138
12061		0.08	1.3	0.012	2.09	24.7	3.9	0.11	74	0.32	0.42	3	4.1	140	14.6	140.5
12062		0.07	1.4	0.012	2.19	22.9	3.8	0.11	54	0.12	0.47	3.1	3.6	140	14.7	144.5
12063		0.08	1.4	0.016	1.43	16	6.4	0.57	94	0.12	0.62	4.6	0.2	540	10.2	74.7
12064		0.11	2.5	0.027	2.75	23.1	11.4	0.5	161	0.11	1.13	8	1.5	690	18.9	138
12065		0.09	1.4	0.02	2.26	20.4	4.8	0.19	179	0.35	0.34	3.3	6.4	160	15.8	128
12066		0.08	1.4	0.014	2.41	17.6	4.1	0.12	106	0.14	0.42	2.5	3.7	150	18	157
12067		0.09	0.1	<0.005	0.04	31.4	5.5	2.66	13	<0.05	0.03	0.3	2.3	130	0.7	2.3
12068		0.17	4.7	0.042	4.17	57.3	71.5	0.15	138	0.17	1.66	16.5	2.1	1220	50.8	437
12069		0.08	0.3	0.017	4.5	6.7	27.5	0.04	115	0.42	2.06	5.6	1.6	1230	38.5	470
12070		0.17	5	0.043	4.21	66.8	79.7	0.18	165	0.57	1.64	18	4.4	1760	48.9	480
12071		0.05	0.4	0.055	2.37	4.2	35.3	0.03	93	0.2	1.19	8.5	1.1	290	20.2	317
12072		0.05	0.1	0.008	5.73	1.5	22.8	0.01	46	0.27	1.6	1.9	1.1	670	54.4	610
12073		0.19	5.6	0.049	4.1	72.5	99.8	0.2	227	0.57	1.84	19.3	4.5	1040	51.3	450
12074		0.1	2.3	0.051	1.91	23.1	86.7	0.05	234	0.19	1.28	21.3	1.3	540	16.2	420
12075		0.1	1.8	0.023	4.27	20.4	30.6	0.06	105	0.46	1.04	6.2	2.9	360	41.4	394
12076		0.13	2.6	0.014	3.96	42.7	19.2	0.04	92	0.13	0.95	4.3	1.7	310	41.5	356
12077		0.19	5.2	0.044	4.12	67.5	76.1	0.17	187	0.45	1.68	18.3	3.5	670	43.6	449
12078		0.1	1.9	0.016	4.28	19	19.3	0.04	79	0.35	1.02	3.7	2.7	340	43.2	393
12079		0.2	5.5	0.059	4.86	72	38	0.24	383	0.22	1.27	14.4	3.6	1240	54.4	438
12080		0.25	7.5	0.06	4.42	109	43.1	0.18	343	0.75	1.35	12	3.7	630	59	365
12081		0.17	4.1	0.056	4.42	46.9	35.6	0.19	316	0.4	1.23	12.6	4.3	760	45.8	344
12082		0.27	7.7	0.048	4.5	123.5	36.1	0.18	352	0.54	1.36	14.6	2.6	590	68.5	371
12083		0.28	8.1	0.049	4.24	127.5	34.2	0.18	281	0.38	1.39	14.1	3.2	430	66.9	348
12084		0.27	7.3	0.052	4.43	104.5	28.8	0.15	170	0.31	1.41	9.3	3.1	570	61.1	319
12085		0.29	7.6	0.044	4.27	125.5	29.6	0.17	225	0.18	1.54	13.3	2.5	390	69.2	375
12086		0.25	7.6	0.036	4.32	107	19	0.15	214	0.42	1.35	15.2	3.5	400	66.5	412
12087		0.24	7.7	0.039	4.83	98.2	16.2	0.18	264	0.45	1.45	15	3.6	460	71.1	412
12088		0.23	7.3	0.035	4.47	91.7	16.3	0.16	210	0.13	1.34	14.1	2.3	240	71.4	370
12089		0.23	6.9	0.038	4.68	92.4	16.1	0.16	205	0.33	1.21	14.8	3	600	70.1	403
12090		0.14	3.1	0.036	3.49	32	17.3	0.14	207	0.72	1.04	9.5	3.7	590	32.7	263
12091		0.15	3.3	0.031	4.12	33.4	18.3	0.12	203	0.31	1.2	7.7	2.4	980	47.4	276
12092		0.21	3	0.047	2.91	62.6	13.3	0.28	247	0.55	1.29	11.3	6.8	680	28.6	204
12093		0.19	4.4	0.025	3.35	54.1	16.6	0.24	222	0.41	1.56	12	5.3	420	31.5	398
12094		0.17	4	0.027	2.99	37.7	65.3	1.66	94	0.13	0.11	11.9	2.9	130	7.8	402



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CERTIFICATE OF ANALYSIS AS08133618

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
FLUSH A		<0.002	<0.01	<0.05	2	1	0.6	113.5	0.09	<0.05	2.5	0.031	0.26	0.6	9	0.1
FLUSH B		<0.002	<0.01	0.18	3.5	1	1.1	188	0.16	<0.05	4.9	0.053	0.47	0.8	17	1
FLUSH C		<0.002	<0.01	0.05	3.6	1	0.7	192.5	0.16	<0.05	4.9	0.054	0.47	0.8	15	0.1
12058		<0.002	<0.01	<0.05	6.1	1	10.8	221	0.88	<0.05	29.3	0.09	1.02	3.6	12	0.5
12059		<0.002	<0.01	0.08	2.6	1	2.5	63.6	0.38	<0.05	19.3	0.079	0.53	2.1	16	0.8
12060		<0.002	<0.01	<0.05	2.7	1	2.8	54.4	0.55	<0.05	24.4	0.1	0.57	2.7	15	1
12061		<0.002	<0.01	0.07	2.2	1	2.4	52.4	0.31	<0.05	13.1	0.067	0.56	1.9	12	0.8
12062		<0.002	<0.01	<0.05	2.3	1	2.4	55	0.35	<0.05	10.7	0.072	0.59	1.5	11	0.7
12063		<0.002	0.02	0.06	2.8	1	1.2	166.5	0.4	<0.05	12.1	0.087	0.3	23.1	9	0.4
12064		<0.002	0.01	0.05	4.4	1	2.1	154	0.72	<0.05	20.2	0.149	0.58	14.6	13	0.6
12065		<0.002	<0.01	0.24	3.7	1	2.4	28.6	0.36	<0.05	9.2	0.092	0.52	2	22	1
12066		<0.002	<0.01	0.11	2.4	1	2.1	47.3	0.28	<0.05	9.4	0.057	0.65	1.9	13	0.6
12067		<0.002	0.02	0.05	0.2	1	0.3	825	<0.05	<0.05	2.7	<0.005	0.02	80.7	4	0.1
12068		<0.002	0.01	0.09	3.4	1	13.6	92.2	2.44	<0.05	46.2	0.103	2.42	11	9	2.9
12069		<0.002	<0.01	0.23	0.9	1	10.6	64.6	1.12	<0.05	3.3	0.017	2.48	3.2	1	4.2
12070		<0.002	<0.01	0.1	4	1	15	99.4	2.18	<0.05	54.7	0.129	2.56	15.5	12	2
12071		<0.002	<0.01	0.12	2.3	1	13.1	12.8	1.44	<0.05	8.3	0.016	1.6	3.1	1	7.8
12072		<0.002	<0.01	0.14	0.4	1	7.2	26.3	0.49	<0.05	0.8	0.007	4.55	0.6	1	1.7
12073		<0.002	<0.01	0.11	4.2	1	15.1	67.3	2.46	<0.05	61	0.142	2.65	11.2	13	3.6
12074		<0.002	<0.01	0.15	2	1	50.7	11.8	7.18	<0.05	19.3	0.038	1.8	3.6	4	18
12075		<0.002	<0.01	0.16	1.7	1	7.1	34.7	1.01	<0.05	16.3	0.045	2.07	3.5	7	2.4
12076		<0.002	<0.01	0.11	1.5	1	4.7	39.1	0.77	<0.05	28.7	0.069	1.78	5.4	10	1.2
12077		<0.002	<0.01	0.09	3.9	1	16.7	42.1	2.7	<0.05	59.8	0.132	2.43	20	11	3.3
12078		<0.002	<0.01	0.11	1.4	1	4.8	35.3	0.52	<0.05	15.1	0.033	2.02	4.3	7	1.2
12079		<0.002	<0.01	0.13	7.8	1	11.2	49.6	1.19	<0.05	63.1	0.188	2.14	56.7	17	1.9
12080		<0.002	<0.01	0.19	6.6	1	17.2	40	1.19	<0.05	137.5	0.141	1.92	87.1	12	2.6
12081		<0.002	0.01	<0.05	6.8	1	11.5	48	1.16	<0.05	40.5	0.169	1.74	26.9	13	1.4
12082		<0.002	<0.01	0.13	6.2	1	10.9	42.6	1.34	<0.05	156.5	0.139	1.83	301	12	3
12083		<0.002	<0.01	0.14	6.1	1	11	41.9	1.28	<0.05	159.5	0.133	1.87	214	11	2.2
12084		<0.002	<0.01	<0.05	5.9	1	16.5	60.3	1.01	<0.05	107	0.127	1.71	20.3	9	1.2
12085		<0.002	<0.01	0.07	6	1	11.4	57	1.29	<0.05	151	0.132	1.98	117	10	1.8
12086		<0.002	0.01	0.16	5.1	1	10.3	47.7	1.45	<0.05	142.5	0.117	2.34	31.6	10	4.1
12087		<0.002	<0.01	0.07	5.2	1	9.3	48.2	1.11	<0.05	142.5	0.131	2.08	32.3	11	1.3
12088		<0.002	<0.01	0.06	4.8	1	8.9	44.7	1.1	<0.05	133.5	0.111	2.06	25.7	9	1.4
12089		<0.002	<0.01	0.09	5	1	9	44.9	1.12	<0.05	133.5	0.119	2.22	35.7	10	1.6
12090		<0.002	<0.01	0.13	4.7	1	8	45.2	1.17	<0.05	23.9	0.12	1.27	8.7	10	2.1
12091		<0.002	<0.01	0.1	4.1	1	7.2	58.7	0.83	<0.05	24.6	0.1	1.49	7.7	9	1.6
12092		<0.002	0.01	0.1	8.3	1	7.6	74.1	1.14	<0.05	36.3	0.222	0.89	7.7	23	1.7
12093		<0.002	<0.01	<0.05	7	1	16	31.5	1.63	<0.05	48.5	0.218	1.83	9	22	5.8
12094		<0.002	<0.01	<0.05	4.9	1	17.9	7	1.62	<0.05	36.7	0.115	1.63	4.9	10	2.2



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Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
FLUSH A		3.9	5	27
FLUSH B		7.3	10	45.8
FLUSH C		7.5	9	44.9
12058		24.9	7	73.7
12059		9.7	6	35.5
12060		12.3	5	59.9
12061		9.3	5	40.9
12062		8.1	5	41.2
12063		10.9	10	45.6
12064		17.8	15	71.4
12065		9.2	10	41.8
12066		6.9	5	41.6
12067		2.3	<2	2.4
12068		21.1	37	140
12069		7.5	13	7.5
12070		22.4	45	158.5
12071		4.8	14	8.4
12072		1.1	4	3.1
12073		22.8	55	177
12074		10.3	32	66.9
12075		8.3	14	57.3
12076		12	9	79.6
12077		19.8	47	162
12078		7.6	9	59.1
12079		26.9	46	159
12080		24	42	210
12081		24	40	124
12082		23	46	226
12083		21.7	40	229
12084		25.1	32	202
12085		27.6	35	220
12086		24.2	36	207
12087		21.3	37	221
12088		20.7	33	207
12089		22.4	34	191
12090		21.9	23	88.5
12091		24.1	23	96.2
12092		24.9	27	88.8
12093		22.1	24	129
12094		23.2	12	110.5



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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
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
12095		0.05	3.5	0.7	310	0.5	0.04	0.1	0.02	44.1	3	15	1.09	7.7	1.04	7.58
12096		0.04	5.68	<0.2	350	1.05	0.02	0.66	0.02	160.5	4.7	7	4.77	6.6	2.03	17.45
12097		0.02	6.47	0.3	300	4.59	0.47	0.56	<0.02	80	4.4	5	8.67	4.6	2.14	19.25
12098		0.01	6.24	0.2	380	0.79	0.03	0.67	<0.02	95.6	4.3	9	3.77	5.7	1.93	15
12099		0.04	7.35	<0.2	400	2.15	<0.01	1.15	0.02	105.5	5.9	13	11.75	6.3	2.47	18.05
12100		<0.01	4.26	0.5	250	0.97	0.15	0.23	<0.02	50.1	3.6	19	3.18	4.1	1.46	9.54
12301		<0.01	2.41	0.4	130	0.97	0.01	0.04	<0.02	73.1	1.8	13	2.23	1.6	1.1	8.41
12302		0.21	3.86	0.9	140	1.01	0.84	0.14	<0.02	428	10.9	18	12.2	5.5	5.13	19.35
12303		0.05	5.88	1.3	280	1.54	0.62	0.19	0.02	>500	4.3	12	4.77	4.8	2.29	19.25
12304		0.06	5.98	1	290	0.95	0.47	0.15	<0.02	>500	5	18	2.2	3.3	4.13	20.3
12305		0.02	7.58	0.6	340	1.31	0.11	0.43	<0.02	>500	3.4	5	2.72	4.5	2.45	21
12306		0.03	5.53	0.9	300	1.1	0.33	0.15	<0.02	>500	6.2	28	2.94	4.9	3.14	16.55
12307		0.12	6.86	1.1	430	2.71	0.57	0.8	<0.02	398	12.9	61	11.8	12.1	4.96	21.3
12308		0.05	6.06	<0.2	90	1.86	0.02	1.51	<0.02	>500	4.1	5	1.85	4.1	1.64	20.7
12309		0.03	4.63	0.8	160	0.92	0.28	0.43	<0.02	432	4.4	13	1.94	6.2	1.94	14.75
12310		0.01	5.11	0.9	180	1.25	0.1	0.44	<0.02	102.5	4.5	16	3.12	6.2	1.75	13.45



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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
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
12095		0.11	1.6	0.015	2.4	21.9	5.1	0.08	139	0.44	0.39	3.8	7.1	190	18
12096		0.27	4.5	0.056	3.6	75.6	32	0.25	139	0.46	1.13	9.9	5.3	330	35.8
12097		0.17	3.2	0.044	3.88	33.4	61.6	0.42	154	0.18	1.28	11.7	3.7	430	25.7
12098		0.19	4.2	0.018	4.17	45.6	25.3	0.24	130	0.6	1.16	8.9	6	520	39
12099		0.21	4.7	0.024	3.75	50.8	28.6	0.34	250	0.81	1.51	10.5	6.9	490	37.1
12100		0.12	2	0.015	2.52	25.6	5.7	0.37	95	0.49	0.65	4	9.8	180	17.4
12301		0.14	1.9	0.011	0.48	39.6	5.6	0.4	72	0.18	0.03	2.8	8.1	150	3.5
12302		0.49	12.4	0.07	2.4	190.5	57.2	0.7	394	0.65	0.15	31	11.2	240	31.3
12303		1.02	8.7	0.025	4.03	540	12.5	0.22	175	0.51	0.57	9.3	6.7	590	64.6
12304		0.56	9.1	0.029	3.7	295	10.3	0.25	249	0.42	0.43	13.2	7.3	340	48.9
12305		0.58	2.9	0.021	4.04	327	15.6	0.21	139	0.64	1.13	10.7	3.6	300	64.4
12306		0.6	6.6	0.044	3.63	288	15.3	0.48	226	0.67	0.33	8.8	13.3	350	34.8
12307		0.45	5.3	0.083	2.92	197.5	32.5	0.95	344	0.18	0.45	14.6	28.2	300	32.2
12308		0.48	6.2	0.019	0.97	252	29.9	0.3	146	0.44	2.06	10.1	2.5	310	34.7
12309		0.43	7.2	0.021	2.3	210	19	0.32	141	0.75	0.69	7.8	6.8	370	29.7
12310		0.19	3	0.021	2.57	49.2	15.6	0.49	150	0.3	0.94	7.5	7.3	310	17.4



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Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
12095		<0.002	<0.01	0.09	2.8	1	1.7	37.1	0.33	<0.05	12.4	0.14	0.6	1.6	17	0.5
12096		<0.002	<0.01	<0.05	3.4	1	8.2	69.9	0.75	<0.05	63	0.197	1.68	6.1	18	0.4
12097		<0.002	<0.01	<0.05	5.3	1	17.6	60.4	1.39	<0.05	29.6	0.2	1.88	3.8	16	2.1
12098		<0.002	<0.01	0.07	4.7	1	3.6	53.2	0.64	<0.05	44.5	0.204	1.77	3.9	20	0.4
12099		<0.002	0.01	<0.05	6.9	1	5.7	57.7	1.12	<0.05	42.6	0.246	1.9	11	31	0.5
12100		<0.002	<0.01	<0.05	4.8	1	2.9	26.5	0.48	<0.05	14.1	0.153	0.71	2.9	30	1.4
12301		<0.002	<0.01	<0.05	3.4	1	1.1	6.3	0.53	<0.05	16.7	0.097	0.21	3.2	14	0.4
12302		0.002	0.01	0.11	17	2	20.6	13.8	2.42	<0.05	393	0.449	2.3	12	41	1.6
12303		0.002	<0.01	0.08	4.9	3	5.8	39	0.86	<0.05	850	0.228	1.69	14.1	22	1.4
12304		0.002	0.01	0.09	5.2	2	6.7	35.4	1.22	<0.05	520	0.397	1.62	7.9	31	1.3
12305		<0.002	<0.01	0.07	4.8	1	5.5	60	0.66	<0.05	460	0.18	2.07	7.3	10	1
12306		0.002	0.01	0.07	6.8	2	5.7	30.8	0.67	<0.05	445	0.286	1.36	7.9	35	0.8
12307		<0.002	0.01	0.12	17.3	2	9.7	42	1.56	<0.05	215	0.47	1.44	7.7	71	2.8
12308		<0.002	<0.01	0.07	5.1	1	10.9	31.9	0.84	<0.05	241	0.163	0.58	8.8	5	1
12309		<0.002	0.01	0.08	5	1	8.5	29.4	0.75	<0.05	228	0.182	0.82	8.2	17	0.7
12310		<0.002	0.01	0.07	5.7	1	10.2	37.5	1.04	<0.05	45.8	0.207	0.75	7.7	26	3.1



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
12095		8	11	47.4
12096		22.8	49	133.5
12097		22.5	36	94.8
12098		18.1	27	122
12099		30	38	142
12100		9.8	8	63.3
12301		13.9	6	56.3
12302		41.3	46	304
12303		53	17	262
12304		30.3	19	264
12305		27.8	14	84.1
12306		32.7	16	196.5
12307		32.8	35	148.5
12308		27.1	20	170.5
12309		32.6	16	204
12310		22	13	85.9



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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.