



Australian Laboratory Services Pty. Ltd.

32 Shand Street

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Brisbane QLD 4053

Phone: +61 7 3243 7222 Fax: +61 7 3243 7218

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ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation

No: 825, Corporate Site No: 818.

To: TINONE RESOURCES AUSTRALIA PTY LTD

31 BENNETTS ROAD

CAMP HILL QLD 4152

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Plus Appendix Pages

Finalized Date: 18-APR-2023

This copy reported on 29-MAY-2023

Account: TINONEAUS

CERTIFICATE BU23082134

Project: Rattler Range

P.O. No.: RAR001

This report is for 18 samples of Rock submitted to our lab in Burnie, TAS, Australia on 30-MAR-2023.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL

RUSSELL FULTON

STUART SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
BAG-21	Raw Sample in a new bag
CRU-21	Crush entire sample
PUL-23	Pulv Sample – Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample – riffle splitter

ANALYTICAL PROCEDURES

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

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 *****

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Signature:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BU23082134

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	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
GM10380X		2.01	92.8	1.86	6.43	10.0	330	4.10	8.45	0.24	0.17	12.55	0.9	2	53.8	7.3
GM10381X		3.49		3.51	5.98	15.6	20	4.46	5.72	0.08	24.5	10.15	0.2	2	54.9	237
GM10382X		1.78		0.24	7.31	9.0	20	4.11	8.05	0.01	0.18	10.10	0.6	6	72.3	28.8
GM10383X		1.46		0.02	9.26	36.7	690	8.34	0.31	0.02	0.13	162.5	2.3	64	4.82	38.9
GM10384		3.16		1.19	6.68	191.5	20	5.01	5.19	0.04	0.07	9.77	0.3	3	107.0	15.0
GM10385		2.38		2.22	6.42	489	40	5.11	9.43	0.05	0.06	11.55	0.3	2	103.5	34.0
GM10386		2.77		0.04	6.26	2.1	380	1.55	0.15	3.32	0.06	66.1	28.5	134	4.44	35.5
GM10387		<0.02		0.89	7.89	148.5	420	3.76	345	5.18	0.43	125.5	18.3	82	4.66	1530
GM10388		<0.02		0.47	5.40	3.9	150	2.20	6.69	5.26	0.12	61.6	15.2	49	116.0	1965
GM10389		3.33		0.47	6.76	32.4	50	6.24	1.40	0.01	0.09	18.75	0.6	3	86.2	76.2
GM10390		3.23		0.23	7.07	57.5	30	6.05	3.53	0.01	0.09	17.65	0.5	3	71.5	118.0
GM10391		2.79		2.47	6.13	30.0	20	4.48	11.40	0.02	0.08	16.20	0.4	2	73.7	38.0
GM10392		2.13		0.34	6.19	23.4	20	5.20	10.25	0.01	0.07	18.00	0.5	2	102.5	58.7
GM10393		2.96		3.11	6.26	81.5	10	4.88	13.40	0.07	0.07	15.50	0.3	2	88.0	19.4
GM10394		2.89		1.17	6.42	373	20	5.14	7.86	0.02	0.14	14.90	0.2	2	108.5	41.7
GM10395		3.19		0.82	5.92	35.8	50	4.30	1.73	0.02	0.06	16.35	0.3	3	76.4	12.4
GM10396		3.03		0.74	5.29	30.9	80	5.08	3.29	0.01	0.11	66.7	0.2	3	26.3	45.8
GM10397		2.52		2.27	1.09	77.2	240	4.43	1.29	0.03	0.04	11.25	0.3	4	14.10	23.7

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Plus Appendix Pages

Finalized Date: 18-APR-2023

Account: TINONEAUS

Project: Rattler Range

CERTIFICATE OF ANALYSIS BU23082134

Sample Description	Method Analyte Units LOD	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
															P
															10
GM10380X		1.24	36.2	0.07	1.2	2.73	3.19	4.9	236	0.10	349	0.51	0.14	12.5	1.6
GM10381X		1.83	34.4	0.08	1.6	0.589	3.60	3.5	286	0.02	1250	3.19	0.26	14.0	1.0
GM10382X		2.39	43.3	0.08	2.2	2.09	2.96	3.6	439	0.02	868	0.25	0.08	22.4	4.6
GM10383X		5.42	21.1	0.23	7.4	0.222	0.31	75.4	27.5	0.16	51	7.16	0.03	90.5	50.6
GM10384		2.70	42.7	0.08	1.8	5.86	3.60	3.6	591	0.02	1345	0.92	0.08	20.1	0.9
GM10385		2.59	41.2	0.08	2.0	9.20	3.53	4.1	565	0.02	1285	0.70	0.08	18.8	2.9
GM10386		5.35	16.90	0.14	3.9	0.082	1.60	34.2	21.8	3.11	747	1.37	1.20	28.1	120.0
GM10387		6.93	20.7	0.28	4.6	10.45	1.95	98.1	21.9	0.58	848	1.42	0.44	16.5	49.2
GM10388		15.15	124.5	0.18	1.4	2.05	1.53	35.1	234	0.91	3000	78.1	1.19	22.5	26.0
GM10389		3.06	38.9	0.10	2.0	12.35	3.34	7.0	219	0.03	693	2.45	0.07	15.3	4.7
GM10390		3.47	38.3	0.08	2.1	8.14	3.29	6.8	212	0.04	538	4.06	0.06	15.5	4.7
GM10391		2.25	34.8	0.08	1.9	24.0	3.21	6.1	236	0.03	828	0.92	0.07	14.8	1.7
GM10392		2.80	38.6	0.09	1.8	11.40	3.18	6.8	241	0.03	778	2.23	0.06	15.2	2.6
GM10393		2.21	38.3	0.09	1.7	10.70	3.32	5.7	442	0.03	965	1.29	0.11	16.6	0.6
GM10394		2.45	38.0	0.09	1.8	4.96	3.49	5.5	523	0.02	1235	0.79	0.07	16.3	1.0
GM10395		2.14	38.5	0.09	1.8	6.00	3.15	6.1	506	0.04	843	0.36	0.07	13.8	0.8
GM10396		3.40	20.9	0.12	2.9	7.90	2.62	29.0	147.5	0.05	545	1.82	0.09	12.7	0.9
GM10397		4.19	10.05	0.07	0.5	3.24	0.33	5.0	95.1	0.02	150	2.62	0.03	2.6	0.7

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CERTIFICATE OF ANALYSIS BU23082134

Sample Description	Method Analyte Units LOD	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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		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	0.01	0.005	0.1
GM10380X		4.4	564	<0.002	<0.01	0.12	3.7	<1	404	29.5	2.78	<0.05	14.10	0.015	3.0
GM10381X		44.5	950	<0.002	0.11	0.28	1.8	<1	186.5	15.8	2.94	<0.05	9.02	0.012	9.4
GM10382X		6.9	957	<0.002	0.01	0.31	3.3	<1	166.5	11.9	5.31	<0.05	10.05	0.013	5.4
GM10383X		9.2	21.8	<0.002	0.01	0.21	6.8	1	10.4	354	5.02	<0.05	9.92	1.350	4.7
GM10384		10.6	1205	<0.002	<0.01	0.31	3.0	<1	322	9.2	5.22	<0.05	10.10	0.019	10.8
GM10385		11.3	1155	<0.002	0.01	0.36	3.0	<1	245	10.0	4.66	<0.05	10.30	0.017	13.1
GM10386		10.4	74.9	<0.002	0.02	0.13	14.5	<1	2.8	408	1.74	<0.05	8.72	0.791	1.7
GM10387		25.2	134.5	<0.002	0.03	31.9	16.4	<1	>500	226	1.31	0.85	18.15	0.484	4.1
GM10388		6.8	411	0.070	0.28	0.75	10.1	2	123.0	121.5	0.69	0.19	7.43	0.173	4.7
GM10389		9.1	952	<0.002	<0.01	0.34	3.0	<1	280	26.9	3.13	<0.05	11.60	0.025	20.0
GM10390		9.9	897	<0.002	0.01	0.26	2.9	1	>500	18.8	2.98	<0.05	12.50	0.024	25.9
GM10391		8.0	908	<0.002	<0.01	0.17	2.6	<1	315	11.4	2.75	<0.05	9.94	0.023	9.3
GM10392		7.2	999	<0.002	<0.01	0.26	2.7	<1	364	15.6	2.85	<0.05	10.85	0.024	12.2
GM10393		6.7	1045	<0.002	0.01	0.31	3.1	<1	345	6.2	3.06	<0.05	10.95	0.021	11.0
GM10394		53.5	1130	<0.002	0.01	0.50	2.7	<1	194.5	7.1	3.85	<0.05	11.20	0.018	8.1
GM10395		6.9	1000	<0.002	<0.01	0.13	2.8	<1	227	7.5	3.05	<0.05	9.76	0.022	4.3
GM10396		44.7	595	<0.002	0.01	3.81	3.1	4	249	7.9	2.33	<0.05	23.0	0.040	7.2
GM10397		42.0	76.5	<0.002	0.16	10.90	1.3	8	25.7	40.6	0.47	<0.05	6.08	0.009	4.2

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CERTIFICATE OF ANALYSIS BU23082134

Sample Description	Method Analyte Units LOD	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
GM10380X		1	11.2	6.2	90	17.6
GM10381X		1	7.4	7.8	1535	24.5
GM10382X		3	86.4	4.9	90	29.5
GM10383X		106	40.0	17.5	58	374
GM10384		1	8.4	8.3	152	30.0
GM10385		1	8.2	9.2	139	31.6
GM10386		119	1.3	17.8	90	152.0
GM10387		75	15.0	75.1	1750	153.5
GM10388		58	>10000	13.1	233	43.9
GM10389		6	11.5	12.0	153	38.5
GM10390		11	9.9	11.6	138	42.1
GM10391		2	8.6	9.2	164	36.6
GM10392		5	8.5	10.1	162	35.2
GM10393		1	9.7	10.8	116	33.1
GM10394		1	8.9	8.7	118	32.8
GM10395		1	10.6	10.5	92	34.9
GM10396		3	10.4	18.2	73	61.3
GM10397		2	3.4	5.7	31	14.5

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Project: Rattler Range

CERTIFICATE OF ANALYSIS BU23082134

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	ACCREDITATION COMMENTS
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia BAG-21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21