



Australian Laboratory Services Pty. Ltd.

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www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate  
Accreditation No: 825, Corporate Site No: 818.

## CERTIFICATE

The following have access to data associated with this certificate:

To: **ALS MINERALS - SALES**  
**ATTN: ALS MINERALS**  
  
**CANADA**

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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Plus Appendix Pages

Finalized Date: 3-APR-2017

This copy reported on 4-APR-2017

Account: MICK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS61	48 element four acid ICP-MS	

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Finalized Date: 3-APR-2017  
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**CERTIFICATE OF ANALYSIS BU17051203**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	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
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
50044		3.39	0.001	0.24	10.10	9.4	100	1.63	0.21	0.24	0.28	69.8	29.2	338	3.88	64.2
50045		3.52	0.001	0.23	9.26	9.0	90	1.83	0.19	0.11	0.07	51.4	79.0	349	3.28	59.2
50046		4.30	0.003	0.24	11.35	9.9	70	1.34	0.20	0.06	0.04	111.5	41.2	346	2.76	60.1
50047		2.94	0.001	0.31	9.85	7.5	100	1.20	0.19	0.07	0.06	83.8	29.7	344	2.58	76.4
50048		3.22	0.001	0.27	11.50	9.5	60	0.74	0.27	0.03	0.19	96.6	24.7	399	2.95	58.6
50049		2.69	0.001	0.26	10.15	8.2	60	0.80	0.23	0.05	0.02	85.1	21.9	405	3.03	77.2



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## CERTIFICATE OF ANALYSIS BU17051203

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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	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	10
50044		12.05	32.0	0.47	7.8	0.115	0.30	30.9	23.0	0.21	1400	5.26	0.04	65.7	155.5	2080
50045		12.05	35.4	0.58	8.5	0.122	0.21	19.8	24.6	0.27	2210	5.12	0.05	69.5	179.0	1420
50046		12.65	34.0	0.96	8.8	0.120	0.22	22.0	26.1	0.25	1020	5.00	0.04	64.1	185.5	1350
50047		11.85	38.6	0.62	9.5	0.132	0.20	25.2	24.0	0.18	1300	4.68	0.04	84.1	184.0	2450
50048		12.70	37.1	1.18	8.2	0.137	0.18	20.7	25.6	0.20	1660	4.90	0.03	70.1	120.5	1760
50049		12.50	36.4	0.60	7.7	0.131	0.21	17.1	30.3	0.25	1160	4.76	0.04	65.8	169.0	1320



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**CERTIFICATE OF ANALYSIS BU17051203**

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
		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
50044		49.5	26.2	<0.002	0.02	1.77	19.0	5	18.9	75.1	4.11	0.11	11.25	1.680	3.4
50045		14.8	15.2	<0.002	0.07	0.53	18.9	6	3.5	68.4	4.19	0.11	10.20	1.855	3.1
50046		13.8	17.0	<0.002	0.06	0.48	25.3	7	3.4	42.1	3.99	0.12	11.20	1.765	3.2
50047		18.1	22.6	<0.002	0.04	0.59	24.6	6	5.0	74.2	5.09	0.10	10.95	2.02	3.7
50048		20.1	20.8	<0.002	0.08	0.61	25.1	8	3.7	31.3	4.31	0.12	14.80	1.955	3.6
50049		17.3	20.5	<0.002	0.06	0.52	22.2	7	3.5	31.1	4.01	0.12	10.75	1.875	3.3



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**CERTIFICATE OF ANALYSIS BU17051203**

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
50044		240	1.8	10.2	116	316
50045		251	1.6	8.0	98	333
50046		247	1.6	9.8	85	334
50047		262	1.8	7.7	108	359
50048		288	2.1	8.0	74	316
50049		278	1.8	7.5	89	300



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**CERTIFICATE OF ANALYSIS BU17051203**

	CERTIFICATE COMMENTS
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist. Au-TL43 ME-MS61
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia Au-TL43 ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU-21 LEV-01 PUL-31b WEI-21