



Australian Laboratory Services Pty. Ltd.
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www.alsglobal.com/geochemistry

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

To: **ALS MINERALS - SALES**
32 SHAND STREET
STAFFORD QLD 4053

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Plus Appendix Pages
Finalized Date: 21-JAN-2021
Account: MICK

CERTIFICATE

The following have access to data associated with this certificate:

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
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
ME-MS61	48 element four acid ICP-MS
Au-TL43	Trace Level Au - 25g AR 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 *****

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Steve Poke

CERTIFICATE OF ANALYSIS	BU20297809
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-TL43 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
LOY05-1		5.51	0.001	0.05	6.07	4.8	210	3.59	0.49	0.65	0.08	160.0	4.4	16	5.82	6.0
LOY05-2		7.69	0.001	0.04	2.28	4.5	180	2.58	4.26	28.4	0.27	38.1	6.5	25	3.15	9.5
LOY05-3		8.58	0.002	0.03	1.75	3.5	230	1.46	0.43	27.6	0.09	30.4	2.7	14	13.85	6.5
LOY05-4		8.09	0.001	0.01	0.63	1.8	60	5.76	0.15	34.7	0.33	34.3	2.8	8	1.05	3.4
LOY05-5		3.41	0.003	0.18	7.29	23.7	300	38.1	1.08	3.82	0.46	106.5	18.5	52	9.41	41.7
LOY05-6		6.68	0.001	0.01	0.50	5.3	30	0.91	0.05	33.3	0.04	9.98	1.2	5	1.55	7.1
LOY05-7		4.98	0.002	0.05	1.55	25.2	10	5.29	0.61	7.96	0.15	77.9	22.2	3	1.05	66.5
LOY05-8		3.39	0.001	0.02	6.04	4.4	20	4.48	0.07	1.31	0.06	107.5	1.5	8	4.71	11.8
LOY05-9		2.54	0.001	0.02	2.84	35.7	10	13.70	2.88	15.00	0.07	164.0	9.3	4	2.94	3.5
LOY05-10		4.09	0.001	0.04	1.20	10.6	40	1.93	0.75	32.3	0.26	29.4	1.4	9	2.15	7.8
LOY05-11		7.62	0.001	0.03	6.03	4.3	170	2.84	0.24	2.87	0.10	321	2.8	6	4.93	8.3
LOY06-1		2.09	0.006	0.03	2.79	15.1	40	5.22	21.4	2.47	0.04	>500	29.8	19	2.48	14.1
LOY06-2		3.12	0.109	0.33	9.53	107.0	250	4.51	91.2	15.40	43.0	147.5	27.1	97	2.20	27.7
LOY06-3		2.16	0.014	0.15	7.81	18.4	250	11.85	26.9	2.53	0.49	129.0	100.0	105	7.81	80.6
LOY06-4		2.26	0.002	0.10	6.05	27.6	240	2.97	1.69	11.90	3.88	86.5	18.6	102	4.17	35.2
LOY06-5		2.46	0.002	0.10	1.26	11.5	90	0.40	0.49	0.70	0.27	38.0	6.7	139	1.31	7.7
LOY06-6		10.47	0.007	0.05	2.91	25.0	260	1.24	1.81	5.23	0.79	72.2	18.2	84	4.98	43.2
LOY06-7		6.42	0.001	0.02	1.99	7.2	100	0.91	0.32	0.15	0.03	61.3	7.4	236	3.76	12.1
LOY06-8		5.04	<0.001	<0.01	2.69	2.8	130	0.95	0.08	0.23	0.02	76.2	6.1	208	6.24	3.3
LOY06-9		6.51	0.002	0.03	3.22	4.8	160	1.38	0.19	1.20	0.04	79.7	12.0	269	7.36	36.1
LOY06-10		5.68	0.001	0.03	3.54	1.8	230	1.71	0.23	1.53	0.04	69.2	8.2	99	6.85	17.2
LOY06-11		5.62	0.001	0.03	3.63	4.8	240	1.99	0.29	0.97	0.03	66.6	8.3	122	9.61	18.8
LOY06-12		8.28	0.001	0.01	1.32	1.3	70	0.76	0.08	0.07	0.02	41.5	2.6	214	1.63	2.3
LOY06-13		7.00	0.007	0.01	2.77	1.3	130	1.46	0.25	0.14	0.03	77.5	3.8	156	2.10	4.2
LOY06-14		2.91	0.001	<0.01	6.00	30.4	260	3.13	0.06	0.17	0.03	100.5	2.8	4	4.80	1.5



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Project: Steve Poke

CERTIFICATE OF ANALYSIS BU20297809

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	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
LOY05-1		1.19	15.90	0.39	4.4	0.060	4.25	159.0	24.3	0.13	174	0.69	1.74	21.6	7.9	170
LOY05-2		1.92	5.35	0.15	2.0	0.080	0.83	21.0	14.1	0.78	1220	0.70	0.11	5.6	14.0	160
LOY05-3		1.13	3.47	<0.05	1.4	0.011	1.29	16.0	21.3	2.00	306	0.86	0.24	4.5	8.5	100
LOY05-4		0.61	1.33	<0.05	2.0	0.019	0.23	18.0	4.6	0.22	2580	0.15	0.02	3.0	6.3	120
LOY05-5		7.45	19.05	0.25	4.9	0.114	2.92	56.2	88.7	4.96	2250	0.32	0.05	14.9	58.4	600
LOY05-6		0.64	1.14	<0.05	0.5	0.020	0.47	4.9	1.9	2.14	254	0.51	0.03	1.5	3.1	50
LOY05-7		42.0	21.0	1.34	2.1	1.720	0.02	31.6	17.0	2.50	5720	16.35	0.01	26.9	4.2	400
LOY05-8		2.11	18.90	0.20	5.7	0.185	4.83	44.2	9.0	0.11	419	1.38	2.01	45.1	3.6	50
LOY05-9		17.20	9.94	0.31	4.2	3.84	0.50	63.3	6.9	3.18	4060	1.30	0.24	21.1	2.5	40
LOY05-10		1.60	3.31	<0.05	1.0	0.255	0.47	15.0	4.7	1.41	638	0.21	0.05	4.3	3.1	80
LOY05-11		3.67	17.50	0.31	5.3	0.374	4.59	166.0	20.0	0.39	908	1.59	1.68	25.2	3.0	160
LOY06-1		33.5	27.1	1.53	2.7	1.510	1.03	680	15.8	0.25	9060	5.74	0.27	14.3	23.7	340
LOY06-2		3.57	25.6	0.15	7.7	0.481	1.62	78.4	24.6	0.93	2300	316	0.05	23.5	73.4	990
LOY06-3		7.82	18.75	0.21	5.2	0.126	1.83	61.2	32.8	4.62	828	5.66	0.05	17.4	136.5	700
LOY06-4		3.91	14.70	0.08	3.3	0.515	2.48	36.5	13.2	4.36	2620	25.0	0.22	13.9	73.5	660
LOY06-5		0.77	2.51	<0.05	1.1	0.063	1.30	14.8	8.6	0.08	171	2.03	0.09	3.1	14.0	1360
LOY06-6		2.81	6.85	<0.05	1.8	0.122	1.67	29.8	12.1	1.93	1040	7.11	0.15	7.4	33.1	4450
LOY06-7		1.48	4.30	<0.05	2.0	0.016	1.08	25.3	15.2	0.34	158	1.34	0.06	3.6	22.4	310
LOY06-8		2.16	6.42	0.08	2.5	0.024	1.23	29.8	24.8	0.46	145	0.47	0.06	8.7	28.1	560
LOY06-9		2.13	7.85	0.09	2.6	0.041	1.77	31.8	25.0	0.78	367	0.90	0.11	5.4	37.8	1040
LOY06-10		3.28	9.10	0.08	2.0	0.074	1.98	29.7	22.1	0.89	422	0.46	0.11	8.5	35.1	540
LOY06-11		3.07	8.78	0.07	2.4	0.035	1.71	29.7	30.2	0.76	318	1.12	0.12	8.9	36.2	510
LOY06-12		2.04	3.13	0.05	1.6	0.029	0.74	18.4	18.3	0.18	138	0.91	0.04	4.1	24.8	300
LOY06-13		3.45	6.86	0.08	1.9	0.012	2.09	33.1	27.2	0.27	198	1.91	0.62	9.1	45.3	450
LOY06-14		2.07	15.55	0.10	4.1	0.014	3.93	51.4	28.3	0.11	132	2.08	1.20	20.1	13.2	120



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CERTIFICATE OF ANALYSIS BU20297809

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		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	0.02	0.1
LOY05-1		13.3	373	0.002	0.02	0.77	2.6	<1	6.2	44.6	1.88	<0.05	47.8	0.108	0.98	8.7
LOY05-2		9.5	37.1	<0.002	0.04	0.81	4.3	1	3.6	304	0.39	0.07	6.04	0.158	0.37	3.1
LOY05-3		12.4	53.1	<0.002	0.18	0.61	2.8	<1	0.8	348	0.31	0.06	5.09	0.129	0.46	2.3
LOY05-4		4.1	10.2	<0.002	0.02	0.37	1.6	<1	0.7	411	0.20	<0.05	4.48	0.079	0.14	2.9
LOY05-5		33.5	126.0	0.002	0.01	5.16	14.5	1	6.4	132.5	1.12	0.10	17.80	0.435	0.61	3.5
LOY05-6		1.8	16.8	<0.002	0.08	0.24	1.2	<1	0.5	336	0.12	<0.05	1.31	0.036	0.15	1.6
LOY05-7		16.6	2.7	0.003	0.12	2.41	1.0	<1	49.8	9.9	3.49	0.06	15.90	0.038	0.06	3.0
LOY05-8		10.7	319	0.002	0.04	0.47	1.8	1	8.9	16.1	4.29	<0.05	64.3	0.049	0.78	16.0
LOY05-9		4.4	44.6	<0.002	<0.01	11.25	2.1	1	197.0	15.2	3.65	<0.05	38.3	0.039	0.11	16.5
LOY05-10		4.0	23.4	<0.002	<0.01	2.94	1.7	<1	12.2	299	0.46	<0.05	2.85	0.051	0.15	3.1
LOY05-11		13.7	274	<0.002	0.01	1.03	8.2	<1	16.6	44.8	1.99	<0.05	69.6	0.164	0.80	7.5
LOY06-1		12.2	85.6	0.004	0.01	3.87	4.8	1	83.2	11.4	1.10	0.21	27.4	0.103	0.29	15.6
LOY06-2		41.0	76.1	<0.002	0.05	54.1	17.5	1	28.8	58.6	1.64	15.65	25.8	0.615	0.47	6.5
LOY06-3		31.0	103.5	<0.002	0.01	25.8	16.6	1	8.6	92.3	1.27	4.55	21.0	0.497	0.60	3.7
LOY06-4		23.1	107.0	<0.002	0.08	6.73	13.0	1	9.5	115.5	1.01	0.40	15.10	0.393	0.64	2.4
LOY06-5		34.3	62.2	<0.002	0.02	2.58	2.1	<1	1.4	24.8	0.21	<0.05	4.18	0.107	0.32	1.0
LOY06-6		11.5	72.7	<0.002	0.38	4.34	6.2	<1	2.8	96.7	0.53	0.47	8.30	0.238	0.26	2.2
LOY06-7		6.0	46.7	<0.002	0.13	1.86	3.7	<1	0.7	22.1	0.26	0.06	6.13	0.158	0.21	1.4
LOY06-8		6.7	53.4	<0.002	0.05	1.11	5.2	<1	1.2	25.0	0.63	<0.05	8.72	0.274	0.24	1.6
LOY06-9		10.1	69.1	<0.002	0.34	1.52	5.7	<1	1.6	46.7	0.39	0.14	9.42	0.212	0.34	1.9
LOY06-10		11.9	84.3	<0.002	0.28	1.62	6.1	<1	4.2	78.5	0.61	0.26	9.02	0.268	0.39	1.5
LOY06-11		9.4	85.3	0.002	0.45	1.00	6.1	<1	2.7	66.8	0.68	0.47	9.85	0.266	0.49	2.2
LOY06-12		3.2	38.1	<0.002	0.01	0.79	2.1	<1	2.4	22.9	0.24	<0.05	4.89	0.131	0.19	0.9
LOY06-13		12.0	108.5	<0.002	0.02	0.45	4.7	<1	2.6	51.1	0.77	0.06	8.86	0.224	0.45	1.7
LOY06-14		10.2	283	<0.002	1.13	0.73	2.5	<1	1.2	46.6	1.68	<0.05	39.6	0.108	1.00	6.1



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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm
		1	0.1	0.1	2	0.5
LOY05-1		9	2.5	121.5	65	118.5
LOY05-2		25	1.2	16.7	55	71.4
LOY05-3		17	0.5	11.3	23	49.2
LOY05-4		7	0.4	16.4	41	70.9
LOY05-5		42	15.1	47.2	1280	181.0
LOY05-6		5	0.2	3.8	31	19.3
LOY05-7		7	1.6	60.9	887	37.0
LOY05-8		1	1.0	82.6	53	105.0
LOY05-9		4	1.5	81.2	209	68.2
LOY05-10		10	1.4	17.5	46	28.5
LOY05-11		10	1.6	65.9	58	159.5
LOY06-1		30	28.0	151.5	475	73.5
LOY06-2		87	19.2	49.7	574	265
LOY06-3		64	9.3	53.6	1250	186.5
LOY06-4		67	3.0	42.5	346	113.5
LOY06-5		15	1.2	22.9	50	41.0
LOY06-6		39	1.0	35.5	43	62.5
LOY06-7		27	0.6	9.4	24	68.5
LOY06-8		42	1.4	10.8	21	80.8
LOY06-9		42	0.6	16.1	26	108.0
LOY06-10		46	0.9	15.4	30	68.7
LOY06-11		45	1.4	13.0	25	80.0
LOY06-12		23	1.6	9.1	11	59.3
LOY06-13		43	1.3	14.7	21	59.4
LOY06-14		7	1.2	25.6	20	104.5

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CERTIFICATE OF ANALYSIS BU20297809

	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 Au-TL43 ME-MS61								
	LABORATORY ADDRESSES								
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 Au-TL43 ME-MS61								
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">CRU-21</td> <td style="width: 33%;">LEV-01</td> <td style="width: 15%;">LOG-22</td> </tr> <tr> <td>PUL-23</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	BAG-01	CRU-21	LEV-01	LOG-22	PUL-23	SPL-21	WEI-21	
BAG-01	CRU-21	LEV-01	LOG-22						
PUL-23	SPL-21	WEI-21							