



Australian Laboratory Services Pty. Ltd.

32 Shand Street
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www.alsglobal.com/geochemistry

ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

CERTIFICATE AD18211068

This report is for 9 Rock samples submitted to our lab in Adelaide, SA, Australia on 28-AUG-2018.

The following have access to data associated with this certificate:

ROMAN TESLYUK

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SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
LEV-01	Waste Disposal Levy
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia 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:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS AD18211068

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1
EAIVRD281R		0.70	0.001	0.01	3.36	0.5	<0.02	10	80	0.52	0.12	2.27	0.03	39.1	26.7
EAIVRD290R		0.41	<0.001	0.01	2.73	0.3	<0.02	20	60	0.44	0.06	1.58	0.02	44.4	31.4
EAIVRD293R		1.07	<0.001	<0.01	1.69	0.4	<0.02	10	60	0.48	0.04	1.22	0.02	56.0	15.8
EAIVRD310R		1.05	<0.001	<0.01	1.58	0.2	<0.02	10	30	0.66	0.07	0.89	0.02	44.2	28.0
EAIKILO04R		0.62	<0.001	0.01	0.12	0.6	<0.02	<10	10	0.07	0.02	>25.0	0.02	3.22	1.1
EAIKILO08R		0.68	0.001	0.01	0.06	0.4	<0.02	<10	30	0.27	0.01	>25.0	0.06	2.25	0.8
EAIKILO17R		0.90	0.001	0.02	0.06	0.8	<0.02	<10	10	0.06	0.02	>25.0	0.03	2.59	0.7
EAIKILO19R		1.04	<0.001	0.01	0.03	0.6	<0.02	<10	<10	0.05	0.02	>25.0	0.06	2.91	0.5
EAIKILO100R		0.52	<0.001	0.01	0.01	<0.1	<0.02	<10	10	0.08	<0.01	>25.0	0.11	5.75	0.3



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
EAIVRD281R		0.91	14.6	5.19	9.65	0.15	0.78	0.01	0.025	0.32	18.5	11.8	1.19	410	0.51
EAIVRD290R		0.11	76.3	5.80	11.15	0.20	0.99	<0.01	0.026	0.35	21.2	14.5	2.38	453	0.44
EAIVRD293R		0.47	6.1	6.19	7.89	0.28	0.88	<0.01	0.029	0.30	27.9	11.7	1.07	624	0.58
EAIVRD310R		0.05	48.8	5.08	10.45	0.41	1.20	<0.01	0.029	0.19	20.9	13.5	2.72	548	0.41
EAIKILO04R		0.07	1.8	0.29	0.46	<0.05	0.08	<0.01	<0.005	0.02	1.8	1.0	1.16	80	0.19
EAIKILO08R		0.08	1.3	0.15	0.19	<0.05	0.03	0.01	<0.005	0.01	1.2	0.6	0.22	168	0.06
EAIKILO17R		0.06	2.5	0.15	0.23	<0.05	0.06	<0.01	<0.005	0.01	1.5	0.8	0.79	74	0.26
EAIKILO19R		<0.05	1.6	0.12	0.13	<0.05	0.03	<0.01	<0.005	0.01	1.6	0.7	1.20	56	0.06
EAIKILO100R		<0.05	1.2	0.08	0.07	<0.05	<0.02	<0.01	<0.005	0.01	3.1	0.3	0.16	147	0.08



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
EAIVRD281R		0.18	17.6	530	4.7	19.6	<0.001	<0.01	<0.05	9.6	<0.2	1.3	67.0	0.01	<0.01	7.2
EAIVRD290R		0.30	17.2	500	6.0	12.5	<0.001	<0.01	<0.05	11.9	<0.2	1.2	42.0	0.01	<0.01	6.3
EAIVRD293R		0.67	13.3	590	5.3	18.0	0.001	<0.01	<0.05	10.4	<0.2	1.4	25.8	0.01	<0.01	6.9
EAIVRD310R		0.73	18.6	690	3.9	4.2	<0.001	<0.01	<0.05	17.0	<0.2	1.2	12.7	0.02	<0.01	6.5
EAIKIL004R		0.19	1.7	120	6.7	1.7	<0.001	0.01	<0.05	0.6	0.3	<0.2	97.2	<0.01	0.01	0.4
EAIKIL008R		0.05	2.0	70	12.6	1.0	<0.001	0.01	<0.05	0.3	0.6	<0.2	98.3	<0.01	<0.01	0.2
EAIKIL017R		0.06	1.9	140	10.8	0.8	0.001	0.01	<0.05	0.3	0.6	<0.2	113.0	<0.01	<0.01	0.3
EAIKIL019R		<0.05	1.3	50	3.8	0.7	<0.001	0.01	<0.05	0.2	0.4	<0.2	133.5	<0.01	<0.01	0.2
EAIKIL100R		<0.05	1.7	90	2.7	0.5	<0.001	0.03	<0.05	0.3	0.7	<0.2	93.6	<0.01	0.01	<0.2



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	PUL-QC
		Ti	Ti	U	V	W	Y	Zn	Zr	Pass75um
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
EAIVRD281R		0.197	0.04	1.16	215	0.19	17.85	59	35.5	
EAIVRD290R		0.555	0.03	1.07	209	0.28	22.2	42	43.6	
EAIVRD293R		0.632	0.05	1.15	207	0.38	24.8	169	37.0	97.8
EAIVRD310R		0.544	0.02	1.15	197	0.26	23.3	247	53.3	
EAIKIL004R		0.017	<0.02	0.88	10	<0.05	1.52	8	3.1	
EAIKIL008R		<0.005	0.02	0.40	3	<0.05	0.95	10	1.1	
EAIKIL017R		<0.005	<0.02	0.91	4	<0.05	0.87	11	2.2	
EAIKIL019R		<0.005	<0.02	0.67	5	<0.05	0.63	8	1.3	
EAIKIL100R		<0.005	<0.02	0.59	1	<0.05	1.25	5	<0.5	



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

ACCREDITATION COMMENTS

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-ICP21 ME-MS41

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
Au-ICP21 ME-MS41

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
CRU-21 LEV-01 LOG-22 PUL-32
PUL-QC WEI-21