



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

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

www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD

GROUND FLOOR

100 GEORGE STREET

PARRAMATTA NSW 2150

Page: 1

Total # Pages: 2 (A - D)

Plus Appendix Pages

Finalized Date: 4-OCT-2019

This copy reported on 11-OCT-2019

Account: EARTOP

## CERTIFICATE AD19237216

This report is for 13 Rock samples submitted to our lab in Adelaide, SA, Australia on 23-SEP-2019.

The following have access to data associated with this certificate:

EARTH AI OPERATIONS

ISABELLA SYKES

ROMAN TESLYUK

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

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



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
GROUND FLOOR  
100 GEORGE STREET  
PARRAMATTA NSW 2150

Page: 2 - A  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 4-OCT-2019  
Account: EARTOP

CERTIFICATE OF ANALYSIS AD19237216

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	AuME-TL43 Au ppm	AuME-TL43 Ag ppm	AuME-TL43 Al %	AuME-TL43 As ppm	AuME-TL43 B ppm	AuME-TL43 Ba ppm	AuME-TL43 Be ppm	AuME-TL43 Bi ppm	AuME-TL43 Ca %	AuME-TL43 Cd ppm	AuME-TL43 Ce ppm	AuME-TL43 Co ppm	AuME-TL43 Cr ppm
		0.02	0.01	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
EAIELK1908199R		0.54	91.0	<0.001	0.17	0.37	11.3	<10	10	10.20	0.03	0.02	0.08	18.50	34.6	34
EAIELK1908202R		0.51		<0.001	0.05	0.04	0.9	<10	290	<0.05	0.01	0.20	<0.01	0.39	1.5	22
EAIELK1908204R		0.72		<0.001	0.04	0.15	0.3	<10	250	0.07	0.05	0.17	0.01	2.25	1.2	6
EAIELK1908214R		0.58		<0.001	0.07	0.63	116.0	<10	390	4.35	0.04	0.04	0.02	19.10	39.0	65
EAIELK1908235R		0.58		<0.001	0.20	0.51	38.7	<10	590	0.62	0.07	0.05	0.01	3.99	3.5	54
EAIELK1908241R		0.90		<0.001	0.18	0.90	63.4	10	290	3.33	0.06	0.04	0.02	9.71	48.7	76
EAIELK1908242R		0.35		0.001	0.07	0.67	22.4	<10	350	5.99	0.07	0.10	0.01	12.55	29.9	106
EAIELK1908248R		0.42		<0.001	0.05	0.73	19.7	10	190	38.2	0.15	0.04	0.04	27.8	94.4	55
EAIELK1909015R		0.29		<0.001	0.02	1.61	9.2	<10	340	2.66	0.02	0.05	0.01	4.21	2.5	180
EAIELK1909022R		0.47		<0.001	0.04	1.16	35.2	<10	700	4.19	0.11	0.06	0.02	5.49	32.4	103
EAIELK1909033R		0.37		0.001	0.18	0.83	78.8	<10	140	4.32	0.14	0.02	0.05	16.25	53.9	21
EAIELK1909035R		0.34		0.001	0.05	0.38	6.7	<10	1320	0.44	0.05	0.05	0.01	3.24	3.1	39
EAIELK1909049R		0.38		<0.001	0.03	1.06	4.6	<10	920	4.52	0.10	0.04	0.02	14.10	6.8	34



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
GROUND FLOOR  
100 GEORGE STREET  
PARRAMATTA NSW 2150

Page: 2 - B  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 4-OCT-2019  
Account: EARTOP

CERTIFICATE OF ANALYSIS AD19237216

Sample Description	Method Analyte Units LOD	AuME-TL43 Cs ppm 0.05	AuME-TL43 Cu ppm 0.2	AuME-TL43 Fe % 0.01	AuME-TL43 Ga ppm 0.05	AuME-TL43 Ge ppm 0.05	AuME-TL43 Hf ppm 0.02	AuME-TL43 Hg ppm 0.01	AuME-TL43 In ppm 0.005	AuME-TL43 K % 0.01	AuME-TL43 La ppm 0.2	AuME-TL43 Li ppm 0.1	AuME-TL43 Mg % 0.01	AuME-TL43 Mn ppm 5	AuME-TL43 Mo ppm 0.05	AuME-TL43 Na % 0.01
EAIELK1908199R		<0.05	128.5	43.7	1.78	0.18	0.17	<0.01	0.183	0.01	8.4	0.2	0.02	280	4.40	0.01
EAIELK1908202R		<0.05	11.3	1.59	0.37	<0.05	<0.02	0.01	<0.005	0.01	0.2	0.8	0.12	171	2.83	0.01
EAIELK1908204R		0.10	18.9	0.38	0.58	<0.05	0.07	<0.01	<0.005	0.02	1.1	0.5	0.05	57	0.61	0.01
EAIELK1908214R		0.07	217	39.6	2.49	0.15	0.03	<0.01	0.249	0.02	10.1	0.4	0.02	307	20.8	0.01
EAIELK1908235R		0.06	281	21.2	3.29	0.17	0.21	0.02	0.147	0.01	2.0	0.5	0.02	44	15.05	0.01
EAIELK1908241R		0.12	287	32.2	2.22	0.13	0.43	0.01	0.052	0.03	8.3	0.5	0.02	309	6.45	0.01
EAIELK1908242R		0.11	68.0	30.0	1.97	0.09	0.42	0.01	0.161	0.03	8.8	0.3	0.02	185	1.53	0.01
EAIELK1908248R		0.32	133.5	38.7	3.59	0.16	0.02	0.01	0.166	0.07	14.9	1.1	0.03	556	3.56	0.01
EAIELK1909015R		0.16	206	39.5	2.58	0.12	0.05	<0.01	0.030	0.06	3.2	0.5	0.03	22	2.97	0.01
EAIELK1909022R		0.19	200	27.2	3.20	0.09	0.04	<0.01	0.032	0.06	2.6	0.9	0.02	301	0.82	0.01
EAIELK1909033R		0.47	674	30.6	3.04	0.10	0.02	0.01	0.057	0.12	5.7	1.6	0.02	127	3.11	0.01
EAIELK1909035R		0.08	25.9	3.80	2.07	<0.05	0.30	<0.01	0.042	0.02	2.0	0.5	0.02	151	2.73	0.01
EAIELK1909049R		0.29	48.3	19.10	2.60	0.07	0.02	<0.01	0.012	0.12	5.2	1.0	0.02	78	0.78	0.01



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
GROUND FLOOR  
100 GEORGE STREET  
PARRAMATTA NSW 2150

Page: 2 - C  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 4-OCT-2019  
Account: EARTOP

CERTIFICATE OF ANALYSIS AD19237216

Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
		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
EAIELK1908199R		0.05	61.5	800	27.6	0.8	<0.001	0.02	1.43	11.1	0.3	0.3	2.8	<0.01	0.02	7.1
EAIELK1908202R		<0.05	9.9	10	1.1	0.4	<0.001	0.02	0.19	0.2	<0.2	0.6	17.5	<0.01	<0.01	<0.2
EAIELK1908204R		<0.05	3.3	60	7.1	1.1	<0.001	0.08	0.07	0.3	<0.2	0.3	16.6	<0.01	0.01	0.8
EAIELK1908214R		0.09	74.3	1570	27.9	1.2	<0.001	0.05	3.05	28.4	0.2	0.5	19.8	<0.01	0.03	26.6
EAIELK1908235R		0.15	4.0	240	35.3	0.8	<0.001	0.06	3.98	8.9	1.1	0.8	19.7	<0.01	0.03	7.3
EAIELK1908241R		0.15	145.0	530	46.1	2.1	<0.001	0.05	0.36	28.2	1.2	0.6	9.2	<0.01	0.02	10.2
EAIELK1908242R		0.12	82.2	370	24.1	1.7	<0.001	0.10	0.48	11.5	<0.2	0.5	15.2	<0.01	0.03	25.0
EAIELK1908248R		0.14	503	4240	40.5	4.2	<0.001	0.05	1.22	27.3	1.0	0.6	9.9	<0.01	0.03	8.1
EAIELK1909015R		0.07	7.3	1090	8.2	4.4	<0.001	0.11	1.68	13.2	1.2	0.8	7.0	<0.01	0.03	13.3
EAIELK1909022R		0.24	82.4	930	25.0	3.4	<0.001	0.07	0.45	15.1	0.8	0.8	28.6	<0.01	0.03	22.6
EAIELK1909033R		0.16	84.5	2410	23.5	7.6	<0.001	0.05	1.19	8.5	0.5	0.8	6.4	<0.01	0.03	4.1
EAIELK1909035R		<0.05	11.7	280	15.5	1.0	<0.001	0.04	1.37	1.9	0.3	0.8	13.9	<0.01	0.16	5.8
EAIELK1909049R		0.05	10.0	1310	4.5	7.6	<0.001	0.04	1.58	6.8	0.2	0.4	19.7	<0.01	0.02	3.5



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
GROUND FLOOR  
100 GEORGE STREET  
PARRAMATTA NSW 2150

Page: 2 - D  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 4-OCT-2019  
Account: EARTOP

CERTIFICATE OF ANALYSIS AD19237216

Sample Description	Method Analyte Units LOD	AuME-TL43 Ti %	AuME-TL43 Ti ppm	AuME-TL43 U ppm	AuME-TL43 V ppm	AuME-TL43 W ppm	AuME-TL43 Y ppm	AuME-TL43 Zn ppm	AuME-TL43 Zr ppm
EAIELK1908199R		0.005	<0.02	2.68	94	0.09	31.7	388	5.9
EAIELK1908202R		<0.005	<0.02	0.14	2	1.19	0.19	2	<0.5
EAIELK1908204R		<0.005	<0.02	0.11	2	4.43	1.50	3	2.1
EAIELK1908214R		0.007	<0.02	3.60	229	0.22	20.1	169	2.0
EAIELK1908235R		0.013	<0.02	2.38	198	1.56	4.06	10	9.4
EAIELK1908241R		0.014	0.03	3.21	238	0.20	16.70	556	15.3
EAIELK1908242R		0.014	<0.02	1.70	258	1.26	20.8	159	19.9
EAIELK1908248R		0.010	0.05	2.36	77	0.27	78.6	623	0.8
EAIELK1909015R		0.007	0.02	2.92	34	1.26	3.55	25	4.2
EAIELK1909022R		0.016	0.05	3.82	351	0.13	4.34	207	2.9
EAIELK1909033R		0.011	0.05	14.70	63	4.85	26.1	278	1.0
EAIELK1909035R		0.005	<0.02	0.51	177	0.46	1.02	14	11.7
EAIELK1909049R		0.014	0.04	2.45	25	0.51	15.55	26	1.4



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
GROUND FLOOR  
100 GEORGE STREET  
PARRAMATTA NSW 2150

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 4-OCT-2019  
Account: EARTOP

<b>CERTIFICATE OF ANALYSIS AD19237216</b>
---

CERTIFICATE COMMENTS
----------------------

	<b>LABORATORY ADDRESSES</b>
--	-----------------------------

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 AuME-TL43
---

Applies to Method:	
--------------------	--

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. CRU-21 PUL-QC
--

LEV-01
--------

WEI-21
--------

LOG-22
--------

PUL-32
--------