



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

Page: 1  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

## QC CERTIFICATE AD19011059

Project: Thomas Creek

This report is for 7 Rock samples submitted to our lab in Adelaide, SA, Australia on 16-JAN-2019.

The following have access to data associated with this certificate:

ROBERT REID

ANDY RUST

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
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 \*\*\*\*\*

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Page: 2 - A  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
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## QC CERTIFICATE OF ANALYSIS AD19011059

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
STANDARDS																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
JK-17																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		20.2	7.00	124.5	250	3.00	10.55	2.25	19.65	72.4	95.7	78	11.50	8350	5.45	17.35
Target Range - Lower Bound		18.15	6.07	106.0	700	2.59	9.44	1.98	16.70	64.8	87.2	78	9.85	7800	4.81	16.05
Upper Bound		22.2	7.44	130.0	980	3.27	11.55	2.44	20.5	79.2	107.0	98	12.15	8980	5.91	19.75
OREAS 24b		0.07	8.15	10.3	800	2.73	0.84	1.13	0.05	88.8	16.9	123	11.40	38.8	4.64	21.5
Target Range - Lower Bound		0.05	7.02	7.3	600	2.25	0.60	0.94	<0.02	76.8	14.3	105	9.58	35.1	3.94	18.05
Upper Bound		0.09	8.60	9.4	830	2.86	0.76	1.18	0.09	93.8	17.8	131	11.80	40.9	4.84	22.2
OREAS 905		0.52	7.01	32.2	2700	2.65	5.40	0.57	0.31	86.1	13.8	18	6.44	1390	3.81	23.2
Target Range - Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.01	0.3	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10



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Page: 2 - B  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

## QC CERTIFICATE OF ANALYSIS AD19011059

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
STANDARDS																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
JK-17																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		0.10	3.2	1.500	2.94	36.4	31.6	1.27	516	937	1.82	18.4	8680	850	7170	199.5
Target Range - Lower Bound		0.25	2.5	1.320	2.59	31.0	29.7	1.11	447	841	1.62	15.4	8000	760	6520	164.5
Upper Bound		0.49	3.3	1.620	3.19	39.0	36.7	1.38	557	1030	2.00	19.0	9770	950	7970	201
OREAS 24b		0.12	4.1	0.076	2.90	44.8	55.8	1.66	462	3.92	0.88	16.1	66.4	750	24.2	178.0
Target Range - Lower Bound		<0.05	3.4	0.063	2.52	37.7	48.4	1.39	391	3.46	0.70	13.0	53.8	610	20.3	147.5
Upper Bound		0.26	4.4	0.091	3.10	47.1	59.6	1.72	489	4.34	0.88	16.2	66.2	770	25.9	180.5
OREAS 905		0.12	6.2	0.626	2.70	43.0	18.4	0.25	362	3.15	2.23	18.0	10.0	250	29.0	132.0
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4		26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7		33.9	152.0
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.06	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range - Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2



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Page: 2 - C  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

**QC CERTIFICATE OF ANALYSIS AD19011059**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
STANDARDS																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
JK-17																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		1.450	2.83	26.3	10.3	10	13.4	249	1.34	0.13	19.20	0.393	1.74	5.4	85	4.5
Target Range - Lower Bound		1.285	2.51	22.8	9.2	8	12.5	224	1.19	0.09	16.90	0.353	1.43	4.5	77	3.9
Upper Bound		1.575	3.09	31.0	11.4	14	15.7	274	1.57	0.31	20.7	0.443	1.98	5.8	97	5.4
OREAS 24b		<0.002	0.21	0.96	16.8	<1	4.2	133.5	1.21	<0.05	17.45	0.450	0.92	3.3	112	3.8
Target Range - Lower Bound		<0.002	0.17	0.76	13.7	<1	3.6	111.5	0.99	<0.05	14.75	0.387	0.71	2.7	96	3.0
Upper Bound		0.006	0.23	1.15	16.9	3	4.9	136.5	1.33	0.10	18.05	0.484	1.01	3.5	120	4.3
OREAS 905		<0.002	0.06	1.82	4.9	2	3.8	151.0	1.28	0.07	13.85	0.114	0.68	4.7	9	2.5
Target Range - Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.59	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	5	4.6	173.0	1.52	0.19	16.05	0.139	0.85	5.6	13	3.3
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<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	<1	<0.1
Target Range - Lower Bound		<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	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2



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Page: 2 - D  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

## QC CERTIFICATE OF ANALYSIS AD19011059

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
STANDARDS					
AMIS0354					0.708
Target Range - Lower Bound					0.666
Upper Bound					0.754
GPP-14					0.915
GPP-14					0.904
Target Range - Lower Bound					0.853
Upper Bound					0.965
JK-17					1.985
Target Range - Lower Bound					1.875
Upper Bound					2.12
OGGeo08		25.1	6990	92.6	
Target Range - Lower Bound		21.1	6500	78.6	
Upper Bound		26.0	7950	107.5	
OREAS 24b		21.1	114	156.0	
Target Range - Lower Bound		18.3	93	113.5	
Upper Bound		22.5	118	154.5	
OREAS 905		15.9	131	235	
Target Range - Lower Bound		14.0	122	214	
Upper Bound		17.4	154	290	
PK03					5.10
Target Range - Lower Bound					4.73
Upper Bound					5.34
PMP-18					0.309
Target Range - Lower Bound					0.289
Upper Bound					0.327
BLANKS					
BLANK					<0.001
BLANK					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
BLANK		<0.1	<2	<0.5	
Target Range - Lower Bound		<0.1	<2	<0.5	
Upper Bound		0.2	4	1.0	



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Page: 3 - A  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
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**QC CERTIFICATE OF ANALYSIS AD19011059**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.64 0.63 0.59 0.68	0.42 0.43 0.39 0.46	4680 4800 4500 4980	10 10 <10 20	0.17 0.15 0.10 0.22	2.55 2.60 2.44 2.71	0.59 0.59 0.55 0.63	0.05 0.03 <0.02 0.06	3.08 3.02 2.89 3.21	527 539 506 560	418 402 389 432	0.83 0.82 0.73 0.92	780 777 751 806	28.3 29.1 27.3 30.1	1.53 1.44 1.36 1.61
ORIGINAL DUP Target Range - Lower Bound Upper Bound		1.85 1.89 1.77 1.97	0.24 0.23 0.21 0.26	>10000 >10000 9500 >10000	10 10 <10 20	0.13 0.14 0.08 0.19	12.50 12.65 11.95 13.20	0.80 0.79 0.75 0.84	0.26 0.25 0.22 0.29	1.98 2.00 1.88 2.10	3310 3300 3140 3470	180 185 172 193	0.57 0.58 0.50 0.65	9330 9440 9060 9710	32.8 32.8 31.2 34.5	0.66 0.68 0.59 0.75



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Project: Thomas Creek

Page: 3 - B  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

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Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.08 0.08	0.2 0.2	0.028 0.028	0.15 0.15	1.8 1.8	1.2 1.2	0.71 0.72	962 970	2.52 2.29	2.64 2.72	0.7 0.6	>10000 >10000	50 70	9.5 9.7	4.0 3.9
Target Range - Lower Bound Upper Bound		<0.05 0.10	<0.1 0.3	0.022 0.034	0.13 0.17	1.2 2.4	0.9 1.5	0.67 0.76	913 1020	2.23 2.58	2.54 2.82	0.5 0.8	9500 >10000	50 70	8.6 10.6	3.7 4.2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.18 0.17	0.1 0.1	0.047 0.045	0.05 0.05	1.1 1.1	2.1 2.1	1.15 1.14	466 467	5.28 5.86	0.06 0.07	0.4 0.4	>10000 >10000	<10 <10	12.8 12.7	2.5 2.5
Target Range - Lower Bound Upper Bound		0.12 0.23	<0.1 0.2	0.039 0.053	0.04 0.06	<0.5 1.7	1.8 2.4	1.08 1.21	438 495	5.24 5.90	0.05 0.08	0.3 0.5	9500 >10000	<10 20	11.6 13.9	2.3 2.7



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Page: 3 - C  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
Account: ACCELE

## QC CERTIFICATE OF ANALYSIS AD19011059

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.010 0.011	>10.0 >10.0	39.0 39.4	1.2 1.1	7 7	1.1 0.5	24.5 24.5	<0.05 <0.05	0.86 0.88	0.52 0.54	0.020 0.020	1.10 1.14	0.1 0.1	13 13	0.7 0.7
Target Range - Lower Bound Upper Bound		0.008 0.013	9.49 10.00	36.2 42.2	1.0 1.3	6 8	0.6 1.0	23.1 25.9	<0.05 0.10	0.78 0.96	0.49 0.57	0.014 0.026	1.02 1.22	<0.1 0.2	11 15	0.5 0.9
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.033 0.033	>10.0 >10.0	126.5 123.5	0.7 0.8	16 15	0.2 0.3	7.5 7.5	0.08 0.07	4.04 3.91	0.41 0.51	0.011 0.010	3.29 3.37	0.3 0.5	9 9	0.4 0.3
Target Range - Lower Bound Upper Bound		0.029 0.037	9.49 10.00	115.5 134.5	0.6 0.9	14 17	<0.2 0.4	6.9 8.1	<0.05 0.10	3.73 4.22	0.43 0.49	<0.005 0.016	3.06 3.60	0.3 0.5	8 10	0.2 0.5





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Page: 3 - D  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 8-FEB-2019  
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QC CERTIFICATE OF ANALYSIS AD19011059

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
DUPLICATES					
ORIGINAL					0.023
DUP					0.026
Target Range - Lower Bound					0.022
Upper Bound					0.027
ORIGINAL					0.005
DUP					0.005
Target Range - Lower Bound					0.004
Upper Bound					0.006
ORIGINAL					0.002
DUP					0.003
Target Range - Lower Bound					<0.001
Upper Bound					0.004
ORIGINAL					0.088
DUP					0.090
Target Range - Lower Bound					0.084
Upper Bound					0.094
ORIGINAL		1.1	33	7.1	
DUP		1.1	32	6.6	
Target Range - Lower Bound		0.9	29	5.8	
Upper Bound		1.3	36	7.9	
ORIGINAL		1.1	99	3.5	
DUP		1.1	95	3.2	
Target Range - Lower Bound		0.9	90	2.6	
Upper Bound		1.3	104	4.1	



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 8-FEB-2019  
Account: ACCELE

**QC CERTIFICATE OF ANALYSIS AD19011059**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method:

REE's 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 Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist  
Au-ICP21 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  
Au-ICP21 ME-MS61

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