



Australian Laboratory Services Pty. Ltd.

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

CERTIFICATE AD18057666

Project: Thomas Creek

P.O. No.: AX8_TC130318

This report is for 74 Rock samples submitted to our lab in Adelaide, SA, Australia on
21-MAR-2018.

The following have access to data associated with this certificate:

PETER REID
ROBERT REID

ROBERT REID
ANDY RUST

PETER REID

To: **ACCELERATE RESOURCES LIMITED**
ATTN: PETER REID
GROUND FLOOR
U1/16 ORD STREET
WEST PERTH WA 6005

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 *****

Page: 1

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 11-APR-2018

This copy reported on 17-APR-2018

Account: ACCELE

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
CRU-21	Crush entire sample >70% -6 mm
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Page: 2 - A
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
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CERTIFICATE OF ANALYSIS AD18057666

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP21 Au ppm 0.001	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
TC023		0.37		0.007	0.04	9.06	1.3	2340	0.55	0.20	0.05	<0.02	74.5	2.7	41	0.94
TC024		0.44		0.015	0.01	12.40	11.5	50	0.55	0.13	0.02	<0.02	6.48	4.3	543	1.02
TC025		0.36		0.019	0.01	10.80	11.6	70	0.67	0.14	0.02	<0.02	2.03	8.2	244	1.30
TC026		0.40		0.014	0.03	9.03	23.6	450	0.84	0.32	0.67	0.02	34.6	12.4	173	1.23
TC027		0.46		0.015	0.02	3.80	13.2	250	0.38	0.19	0.26	<0.02	17.00	3.0	69	0.51
TC028		0.45		0.017	0.06	7.27	6.4	290	1.11	0.23	0.66	<0.02	99.6	38.8	90	1.10
TC029		0.42	99.4	0.032	0.12	4.84	16.3	110	0.96	0.49	4.33	0.04	325	91.2	190	0.29
TC030		0.32		0.006	0.02	8.86	10.2	280	0.88	0.59	1.32	0.03	44.9	17.5	122	1.32
TC031		0.35		0.003	0.02	6.96	3.9	180	0.82	0.22	1.15	<0.02	12.95	7.6	21	0.52
TC032		0.20		0.002	<0.01	0.56	1.4	40	0.19	0.12	0.15	0.04	6.55	2.2	26	0.18
TC033		0.31		<0.001	<0.01	0.23	1.0	20	0.07	0.05	0.16	0.03	3.97	1.4	10	0.07
TC034		0.41		0.011	0.01	1.14	1.2	100	0.12	0.07	0.07	0.06	5.48	1.1	34	0.38
TC035		0.35		0.002	0.01	7.70	2.8	410	0.50	0.08	0.27	<0.02	14.05	4.0	43	2.12
TC036		0.20		0.005	0.02	6.27	3.9	280	0.53	0.12	0.25	0.02	17.90	2.7	63	2.29
TC037		0.36		0.001	0.01	4.99	1.4	170	0.44	0.10	0.11	0.02	18.90	2.8	68	1.13
TC038		0.48		0.006	0.02	2.40	3.3	130	0.32	0.05	0.16	0.02	17.80	2.1	20	0.88
TC039		0.40		0.011	0.02	7.18	5.4	310	0.46	0.09	0.46	0.03	13.10	5.2	106	1.01
TC040		0.27		0.010	0.04	2.47	1.5	120	0.19	0.06	0.11	<0.02	12.00	1.4	26	0.87
TC041		0.47		0.006	0.02	8.81	10.0	100	0.70	0.42	1.37	0.03	50.4	8.9	170	1.57
TC042		0.20		0.005	0.13	10.20	2.6	1630	0.58	0.40	0.05	<0.02	150.0	3.5	39	1.11
TC043		0.46		0.012	0.06	9.36	4.2	1710	0.61	0.46	0.04	<0.02	67.3	2.1	50	1.18
TC044		0.30		0.003	0.03	7.02	4.7	1530	1.64	0.17	0.03	<0.02	71.0	1.6	22	1.70
TC045		0.26		0.001	0.01	6.85	3.1	1610	1.33	0.12	0.06	<0.02	28.8	2.1	17	1.25
TC046		0.31		0.007	0.03	9.23	1.6	1450	0.64	0.17	0.04	<0.02	72.1	4.9	71	0.97
TC047		0.56	97.2	0.012	0.09	9.42	5.7	2370	0.54	1.33	0.06	<0.02	103.5	5.3	97	1.11
TC048		0.41		0.006	0.02	8.49	3.7	1390	0.70	0.32	0.14	<0.02	85.5	14.8	80	0.94
TC049		0.16		0.002	0.01	4.78	6.1	1470	0.51	0.09	0.10	<0.02	86.5	16.1	82	1.26
TC050		0.32		0.014	0.02	8.33	4.2	100	1.21	0.16	2.27	<0.02	10.90	4.1	13	0.75
TC051		0.35		0.002	0.03	7.91	2.7	150	0.95	0.07	1.33	<0.02	14.35	9.1	41	1.91
TC052		0.47		0.002	0.02	7.62	2.1	190	1.08	0.05	0.45	<0.02	95.5	3.3	19	2.56
TC053		0.34		0.001	0.01	8.80	3.4	20	0.73	0.07	1.17	<0.02	14.00	6.5	11	1.62
TC054		0.49		0.004	0.02	10.40	6.3	300	1.02	0.13	1.53	<0.02	19.30	6.7	12	0.92
TC055		0.47		0.001	0.02	8.35	1.9	200	0.57	0.10	0.69	<0.02	14.45	5.1	12	1.22
TC056		0.33		0.003	0.01	8.20	3.8	180	1.04	0.11	2.57	<0.02	35.4	10.3	11	1.13
TC057		0.26		<0.001	0.05	4.00	2.9	90	0.37	0.15	2.94	0.04	15.85	13.0	127	0.92
TC058		0.18		<0.001	0.03	3.55	3.0	40	0.49	0.13	3.24	0.02	16.15	13.9	124	0.37
TC059		0.43		0.006	0.01	3.08	2.6	60	0.26	0.11	1.61	<0.02	17.80	11.8	68	0.45
TC060		0.42		0.001	0.02	12.65	12.1	290	0.34	0.15	0.35	<0.02	5.20	19.3	197	1.35
TC061		0.46		0.004	0.02	6.74	7.1	2210	0.69	0.13	0.04	0.02	100.5	21.8	48	2.08
TC062		0.45		0.009	0.01	8.02	9.3	1090	0.88	0.26	0.04	<0.02	37.7	13.9	100	4.36



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Page: 2 - B
Total # Pages: 3 (A - D)
Plus Appendix Pages
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Account: ACCELE

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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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TC023		16.5	0.39	16.40	0.11	4.0	0.028	6.32	34.4	4.0	0.06	32	0.80	0.09	13.3	30.9
TC024		470	9.81	24.0	0.10	9.7	0.183	0.64	3.8	7.5	0.14	32	1.77	0.02	13.3	25.7
TC025		367	11.90	22.2	0.29	4.4	0.079	0.77	0.8	10.9	0.38	261	0.72	0.02	6.8	40.0
TC026		313	6.52	20.8	0.08	3.9	0.107	1.86	19.6	35.5	1.32	302	4.53	0.91	12.2	51.0
TC027		30.1	2.08	9.13	<0.05	6.0	0.023	1.08	9.5	7.6	0.26	146	3.36	1.00	17.4	13.8
TC028		436	2.16	14.10	0.10	3.7	0.045	1.29	56.0	17.2	1.01	223	2.07	1.62	8.9	31.8
TC029		2410	5.62	14.95	0.22	3.0	0.250	0.69	183.0	11.6	5.05	549	3.39	0.93	4.2	66.0
TC030		184.0	2.69	20.2	0.06	4.9	0.047	1.53	23.5	22.6	1.64	254	2.79	0.44	9.1	33.3
TC031		123.5	1.68	17.10	<0.05	6.5	0.038	0.74	6.2	14.0	1.06	289	1.75	2.93	8.8	25.4
TC032		29.4	1.33	1.23	<0.05	3.5	0.011	0.11	3.3	5.4	0.17	157	0.86	0.14	3.1	8.1
TC033		24.3	0.63	0.59	<0.05	1.8	<0.005	0.04	2.0	7.0	0.20	80	0.39	0.08	1.8	3.9
TC034		13.6	0.65	2.50	<0.05	5.6	0.011	0.24	2.7	5.6	0.06	109	2.47	0.25	8.5	4.7
TC035		36.8	1.07	12.80	<0.05	4.5	0.019	1.34	6.9	7.8	0.20	89	1.09	2.77	8.1	7.5
TC036		35.9	2.20	11.20	<0.05	4.2	0.022	1.00	11.0	7.0	0.21	101	2.36	1.78	9.7	7.8
TC037		34.4	1.40	10.65	0.05	4.5	0.022	0.55	9.2	8.1	0.13	113	1.30	0.71	7.8	7.9
TC038		19.4	0.75	5.59	<0.05	5.1	0.009	0.37	10.0	6.7	0.09	102	1.05	0.70	7.3	5.2
TC039		152.5	1.27	14.10	0.05	3.7	0.095	0.87	7.2	12.9	0.53	219	1.50	0.75	8.1	20.1
TC040		24.0	0.88	5.79	<0.05	5.1	0.011	0.34	6.7	5.5	0.08	123	0.98	0.62	7.3	5.0
TC041		159.0	4.79	24.4	0.07	5.3	0.135	0.43	30.7	25.5	1.32	315	17.65	0.46	15.6	36.1
TC042		32.5	0.79	22.3	0.14	5.6	0.066	4.23	66.6	10.2	0.26	59	4.19	0.10	10.3	15.9
TC043		23.7	0.61	17.55	0.07	5.6	0.041	4.80	37.9	5.8	0.14	48	0.93	0.13	9.4	12.1
TC044		18.7	0.72	20.9	0.10	4.6	0.041	5.62	48.1	6.7	0.19	139	0.49	0.17	13.4	8.4
TC045		9.0	0.62	15.05	0.07	3.8	0.029	5.51	17.8	6.1	0.16	89	0.31	0.32	13.0	11.8
TC046		46.4	0.98	22.0	0.11	6.5	0.055	3.75	37.6	14.8	0.44	91	1.81	0.08	12.2	17.7
TC047		132.0	2.22	18.95	0.11	5.6	0.100	4.88	56.1	23.7	0.59	138	9.63	0.12	10.3	13.7
TC048		138.0	3.32	17.05	0.11	4.8	0.058	4.23	47.9	29.8	1.91	305	0.95	0.12	7.9	22.1
TC049		30.5	3.83	9.91	0.11	4.3	0.028	4.11	49.1	13.1	0.76	162	1.24	0.34	6.1	12.5
TC050		86.0	2.17	18.00	0.05	3.1	0.055	0.47	6.5	14.0	0.55	229	0.15	2.66	7.9	19.2
TC051		100.5	1.50	17.20	0.06	2.9	0.050	0.66	5.9	13.2	0.60	170	0.22	2.18	9.5	13.4
TC052		32.2	0.72	15.10	0.12	2.7	0.012	0.82	42.7	7.8	0.18	159	0.94	1.67	10.2	9.6
TC053		110.0	2.25	14.85	<0.05	2.3	0.054	0.07	7.5	12.9	0.74	276	0.14	3.59	7.5	19.1
TC054		96.1	2.34	21.2	0.05	3.4	0.085	0.62	9.9	18.9	0.78	239	0.69	1.43	9.7	49.6
TC055		15.6	0.91	18.85	0.05	6.0	0.029	0.41	6.3	7.8	0.36	149	0.98	0.43	11.1	30.3
TC056		18.8	1.73	18.25	0.07	4.8	0.024	0.33	13.4	7.7	0.70	291	0.52	1.82	6.6	34.9
TC057		7.0	4.73	11.30	0.08	2.6	0.045	0.30	5.9	3.4	2.87	596	0.85	1.48	8.1	34.7
TC058		10.5	4.85	11.50	0.05	3.3	0.057	0.18	4.9	2.2	3.07	502	0.81	1.34	9.1	51.5
TC059		4.7	3.29	9.97	0.06	6.4	0.029	0.20	7.4	6.1	2.09	1020	1.27	0.67	15.7	21.9
TC060		53.5	11.15	23.1	1.03	1.8	0.079	0.98	1.9	22.3	0.80	268	1.63	0.07	5.3	66.5
TC061		34.9	6.36	16.05	0.16	4.4	0.037	6.07	58.9	27.1	1.64	289	1.18	0.12	7.1	12.0
TC062		279	8.60	21.9	0.20	3.5	0.051	3.72	19.2	28.1	1.72	262	6.27	0.06	7.4	23.3



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Page: 2 - C
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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TC023		110	3.0	148.5	<0.002	0.05	0.71	8.7	<1	6.0	48.1	1.34	0.06	20.8	0.255	0.47
TC024		230	4.0	70.6	<0.002	0.03	1.96	27.4	3	2.5	6.1	0.86	<0.05	68.3	0.506	0.13
TC025		100	5.8	57.8	<0.002	0.03	1.62	23.6	3	2.4	4.4	0.51	0.05	26.6	0.372	0.16
TC026		130	5.0	79.5	<0.002	0.05	7.22	22.3	4	7.9	70.7	0.92	0.09	18.05	0.574	0.23
TC027		90	4.9	51.1	<0.002	0.03	6.85	13.4	<1	7.1	56.3	1.31	<0.05	5.06	0.885	0.12
TC028		110	2.5	67.2	<0.002	0.31	4.87	25.0	<1	5.3	71.2	0.70	<0.05	9.12	0.486	0.16
TC029		190	2.8	26.7	0.003	0.50	1.69	135.0	1	12.1	105.5	0.32	<0.05	26.1	0.266	0.12
TC030		120	3.0	107.5	<0.002	0.09	0.85	28.4	<1	2.6	109.5	0.58	0.07	10.10	0.497	0.23
TC031		100	2.3	45.7	<0.002	0.05	0.71	18.3	<1	1.9	96.5	0.73	<0.05	11.10	0.478	0.14
TC032		40	6.5	5.1	<0.002	0.14	0.90	2.9	<1	1.0	23.4	0.23	<0.05	2.03	0.172	0.03
TC033		20	5.6	1.8	<0.002	0.17	0.71	1.5	1	0.6	30.9	0.11	<0.05	1.10	0.096	0.02
TC034		50	14.0	9.8	<0.002	0.07	1.13	3.9	1	1.7	14.6	0.69	<0.05	3.46	0.505	0.05
TC035		90	2.8	84.1	<0.002	0.07	1.53	12.3	<1	1.9	102.0	0.66	<0.05	7.24	0.477	0.27
TC036		140	5.6	63.2	<0.002	0.09	1.26	12.6	1	2.8	64.7	0.74	<0.05	5.52	0.498	0.20
TC037		100	5.6	33.6	<0.002	0.06	1.12	15.4	<1	1.6	28.8	0.59	<0.05	7.87	0.380	0.10
TC038		70	1.9	19.0	<0.002	0.10	1.71	3.9	<1	2.3	32.8	0.60	<0.05	4.54	0.320	0.05
TC039		140	3.4	47.0	<0.002	0.13	1.71	13.9	1	4.8	49.2	0.70	<0.05	10.45	0.433	0.13
TC040		140	2.7	16.1	<0.002	0.08	1.93	4.1	<1	2.4	24.2	0.62	<0.05	4.79	0.338	0.04
TC041		110	5.6	30.1	<0.002	0.04	3.08	30.1	2	7.3	115.0	1.12	<0.05	9.65	0.775	0.10
TC042		200	4.4	157.0	<0.002	0.08	1.10	21.5	<1	4.2	112.0	0.68	0.08	18.20	0.471	0.31
TC043		130	9.9	161.5	<0.002	0.04	1.55	18.3	1	4.5	86.1	0.65	0.09	12.75	0.450	0.25
TC044		170	4.5	139.0	<0.002	0.02	1.65	10.3	<1	3.9	92.1	1.42	<0.05	14.05	0.319	0.37
TC045		90	2.9	158.0	<0.002	0.02	1.01	8.0	<1	3.1	71.2	1.43	<0.05	9.25	0.242	0.41
TC046		150	5.0	140.0	<0.002	0.03	1.16	17.1	<1	5.1	78.4	0.75	0.10	15.55	0.490	0.27
TC047		170	13.0	142.5	<0.002	0.04	2.05	17.4	2	5.9	111.0	0.68	0.35	16.50	0.439	0.30
TC048		160	9.7	151.5	<0.002	0.02	1.32	15.3	<1	5.3	123.0	0.55	<0.05	7.49	0.395	0.32
TC049		160	4.3	133.5	<0.002	0.10	1.33	14.0	<1	3.8	84.7	0.40	<0.05	5.88	0.305	0.26
TC050		100	3.0	25.9	<0.002	0.03	0.81	11.9	<1	4.5	294	0.74	<0.05	14.00	0.372	0.06
TC051		80	2.9	31.1	<0.002	0.06	1.54	13.8	1	6.3	133.0	0.82	<0.05	14.35	0.435	0.10
TC052		110	2.0	50.2	<0.002	0.14	0.65	10.7	1	3.2	77.5	0.90	<0.05	11.10	0.439	0.14
TC053		90	2.9	3.4	<0.002	0.04	1.18	10.2	<1	2.1	271	0.69	<0.05	16.50	0.414	<0.02
TC054		120	3.5	17.4	<0.002	0.04	1.11	15.4	<1	4.3	196.0	0.78	<0.05	17.25	0.682	0.06
TC055		80	3.3	14.8	<0.002	0.09	0.41	10.5	1	3.5	58.6	0.77	<0.05	14.20	0.595	0.05
TC056		220	3.2	12.9	<0.002	0.08	0.35	12.0	<1	3.2	240	0.49	<0.05	11.05	0.433	0.06
TC057		80	10.6	13.0	<0.002	0.05	0.54	20.1	1	1.4	124.0	0.61	<0.05	1.92	0.672	0.05
TC058		120	6.3	6.5	<0.002	0.06	0.52	25.6	1	2.9	141.5	0.58	<0.05	2.44	0.588	0.03
TC059		90	4.8	8.6	<0.002	0.07	0.40	13.5	1	1.2	60.6	0.97	<0.05	3.34	1.070	0.03
TC060		150	7.1	38.7	<0.002	0.05	0.58	16.6	6	1.4	26.4	0.37	<0.05	8.46	0.467	0.13
TC061		160	6.1	195.5	<0.002	0.06	1.61	19.7	<1	3.4	120.5	0.52	<0.05	8.11	0.341	0.39
TC062		90	9.1	149.5	<0.002	0.04	3.33	25.4	2	3.8	40.4	0.53	0.14	8.46	0.448	0.29



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Project: Thomas Creek

Page: 2 - D
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
TC023		5.3	51	7.9	15.3	5	126.5
TC024		15.1	269	3.1	6.7	4	313
TC025		7.2	322	1.5	1.2	17	143.0
TC026		5.4	200	4.0	7.7	21	139.0
TC027		3.7	173	5.1	6.2	6	240
TC028		6.9	122	2.7	16.5	16	131.0
TC029		13.5	181	1.5	49.3	23	104.5
TC030		4.1	181	1.3	14.4	19	170.5
TC031		4.0	103	1.0	9.5	15	215
TC032		1.3	16	0.6	2.7	17	143.5
TC033		0.7	8	0.3	1.6	22	81.6
TC034		2.0	37	1.2	3.5	24	213
TC035		2.7	70	2.1	7.3	11	160.5
TC036		4.6	92	2.4	6.1	8	153.5
TC037		2.5	102	1.0	9.2	11	153.5
TC038		2.1	38	1.0	6.0	3	184.0
TC039		3.3	88	1.3	3.8	16	136.5
TC040		2.2	41	1.0	3.3	4	200
TC041		6.0	305	2.0	7.2	21	191.0
TC042		8.8	129	3.6	17.2	5	206
TC043		4.0	105	14.4	10.6	5	192.0
TC044		5.6	48	8.7	18.9	6	152.0
TC045		4.0	45	7.1	12.3	14	119.5
TC046		5.4	117	10.3	12.9	11	230
TC047		7.9	231	8.9	12.4	17	192.0
TC048		7.3	134	13.3	11.6	33	167.5
TC049		5.3	103	5.1	15.2	12	167.5
TC050		2.7	89	1.3	4.8	9	107.5
TC051		4.5	78	1.8	3.7	9	98.6
TC052		3.6	154	1.2	22.3	8	90.1
TC053		2.0	180	2.9	4.6	14	79.8
TC054		5.3	311	1.9	5.6	10	119.0
TC055		4.5	208	0.8	4.9	7	217
TC056		3.7	190	0.7	11.3	11	187.5
TC057		0.9	269	1.4	12.0	15	102.0
TC058		1.3	218	0.8	13.8	14	116.0
TC059		2.1	156	1.0	14.5	11	227
TC060		1.6	329	0.8	2.7	16	55.5
TC061		5.6	142	11.9	18.5	32	155.5
TC062		5.5	245	15.3	17.0	42	125.5



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Project: Thomas Creek

Page: 3 - A
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP21 Au ppm 0.001	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
TC063		0.35		0.005	0.03	8.96	9.6	680	1.18	0.47	0.02	<0.02	223	7.3	82	2.48
TC064		0.45		0.008	0.03	9.84	5.3	310	0.75	0.19	0.02	<0.02	15.40	2.8	72	2.96
TC200		0.42	99.9	0.010	0.05	8.72	12.0	2920	0.40	0.37	0.08	<0.02	103.5	65.6	40	3.18
TC201		0.38		0.017	0.02	6.30	5.5	1170	0.70	0.20	0.13	0.02	54.3	7.4	69	2.52
TC202		0.29		0.070	0.39	7.05	119.5	160	0.70	0.58	0.05	0.10	256	357	71	1.88
TC203		0.21		0.004	0.02	10.45	2.6	1470	0.76	0.26	0.07	0.03	32.1	6.4	63	1.83
TC204		0.34		0.004	0.02	11.20	8.7	170	1.73	0.10	0.10	<0.02	28.0	33.9	101	3.20
TC205		0.29		0.005	0.05	8.83	5.6	580	0.84	0.24	0.21	0.09	25.4	15.1	240	2.39
TC206		0.24		0.004	0.03	10.65	3.5	450	0.80	0.12	0.06	<0.02	33.3	3.4	203	3.73
TC207		0.28		0.014	0.08	11.15	10.1	890	1.01	0.13	0.02	0.11	38.4	92.5	89	2.76
TC208		0.23		0.007	0.17	10.70	6.4	530	0.49	0.46	0.02	<0.02	5.70	3.5	67	2.26
TC209		0.27		0.005	0.03	8.32	9.2	410	0.36	0.62	0.03	<0.02	16.05	4.5	56	3.14
TC210		0.20		0.004	0.03	8.51	13.4	260	0.39	0.51	0.05	<0.02	8.59	4.4	67	2.19
TC211		0.19		0.001	0.01	8.76	17.1	220	0.33	0.78	0.26	0.02	14.45	11.0	148	1.13
TC212		0.23		0.003	0.04	8.63	11.2	810	0.27	0.60	0.06	<0.02	8.53	5.7	47	2.32
TC213		0.28		<0.001	0.02	10.55	12.4	460	0.29	0.97	0.36	<0.02	11.70	15.2	129	1.40
TC214		0.27		0.005	0.02	9.18	18.3	180	0.29	1.27	0.53	<0.02	14.90	7.8	136	1.52
TC215		0.29		0.003	0.02	8.13	8.6	80	0.38	0.52	0.16	<0.02	13.90	12.5	61	1.60
TC216		0.18		0.004	0.05	8.71	11.2	180	0.73	0.46	0.09	<0.02	23.6	19.5	76	3.29
TC217		0.20		<0.001	0.03	9.10	11.1	90	0.33	0.32	0.03	0.02	12.45	9.5	78	2.63
TC218		0.36		0.002	0.02	8.58	5.2	380	0.72	0.18	0.39	<0.02	33.1	30.1	126	1.97
TC219		0.30		0.019	0.01	3.79	2.5	320	0.22	0.11	0.18	<0.02	16.40	2.8	60	0.93
TC220		0.28		0.027	0.06	7.93	5.7	210	1.34	0.20	0.71	<0.02	92.1	25.0	92	0.67
TC221		0.31		0.054	0.07	7.22	4.0	260	2.03	0.34	1.13	0.05	>500	12.5	81	0.47
TC222		0.31		0.023	0.41	9.34	4.8	440	2.11	0.66	0.42	<0.02	372	12.1	128	1.77
TC223		0.30		0.004	0.03	7.13	2.4	300	0.63	0.34	0.17	<0.02	26.1	4.0	96	0.98
TC224		0.28		0.019	0.09	8.93	5.2	380	0.78	1.07	0.33	<0.02	14.80	14.5	146	2.00
TC225		0.27		0.018	0.08	12.45	13.5	910	0.88	0.18	1.31	0.04	113.0	13.0	12	4.09
TC226		0.22		0.031	0.05	11.65	7.8	430	0.72	0.51	0.05	<0.02	13.10	19.6	23	7.00
TC227		0.20		0.011	0.04	4.23	3.5	440	0.44	0.08	0.57	<0.02	9.23	2.3	11	1.04
TC228		0.25		0.005	0.03	6.05	11.8	100	0.34	0.22	0.50	0.02	12.65	8.1	26	1.75
TCR001		0.80		0.001	0.01	7.84	15.2	490	1.19	0.84	5.59	0.02	61.0	26.1	58	0.18
TCR002		1.31		0.001	0.02	9.23	38.5	360	1.38	0.56	2.68	0.05	36.1	14.6	104	0.70
TCR003		0.42		0.001	0.02	7.55	6.2	280	0.97	0.13	5.96	<0.02	32.4	23.2	244	1.23



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Project: Thomas Creek

Page: 3 - B
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

Sample Description	Method Analyte Units LOR	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	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
TC063		84.6	2.64	24.3	0.16	4.5	0.064	3.51	136.5	21.5	1.05	113	1.51	0.06	7.5	20.9
TC064		144.0	4.82	21.1	0.10	3.7	0.063	1.69	9.1	14.4	0.23	76	1.33	0.04	8.6	15.4
TC200		244	3.50	16.80	0.18	4.1	0.026	6.31	50.4	14.1	1.04	197	1.40	0.17	7.6	56.7
TC201		103.5	1.16	11.95	0.06	4.9	0.022	2.76	28.4	14.0	0.70	143	2.27	0.87	7.3	15.2
TC202		3410	6.55	20.7	0.29	3.1	0.057	2.56	125.5	16.2	1.09	160	1.89	0.33	6.6	297
TC203		25.1	1.50	23.6	0.09	4.1	0.027	4.41	16.8	15.9	0.51	80	0.44	0.74	8.5	8.2
TC204		198.0	1.54	25.8	0.08	4.3	0.049	1.39	15.4	12.8	0.55	89	0.71	0.07	9.3	56.7
TC205		185.5	2.47	18.65	0.08	6.7	0.093	2.40	12.1	33.1	1.67	351	0.78	0.31	10.4	60.2
TC206		70.4	1.07	23.6	0.07	5.1	0.064	2.20	17.9	12.2	0.17	141	1.14	0.69	9.2	14.6
TC207		862	2.46	22.6	0.08	4.1	0.037	3.25	17.5	18.0	0.82	131	5.03	0.11	8.1	148.0
TC208		70.6	1.72	23.6	0.05	4.8	0.143	3.44	2.2	15.6	0.35	59	0.90	0.06	9.4	21.3
TC209		94.7	8.79	17.60	0.09	3.4	0.112	1.55	9.4	24.7	0.56	124	1.55	0.06	8.9	13.3
TC210		116.0	6.35	16.70	0.06	3.4	0.141	1.06	4.0	16.4	0.30	114	1.33	0.04	7.7	17.1
TC211		40.2	12.90	18.20	0.34	3.4	0.218	0.67	6.1	24.3	0.53	199	2.13	0.08	8.1	23.8
TC212		69.5	6.38	17.00	0.10	2.8	0.101	2.08	4.3	22.4	0.49	160	1.93	0.08	8.3	14.0
TC213		50.8	8.40	17.85	0.23	2.9	0.189	0.97	5.1	23.0	0.84	395	1.32	0.08	7.1	27.0
TC214		59.6	11.75	19.75	0.27	3.2	0.185	0.49	6.8	22.0	0.31	234	2.62	0.07	8.1	19.3
TC215		12.7	4.96	16.40	<0.05	3.7	0.071	0.36	4.0	13.2	0.14	216	1.09	0.03	8.3	11.6
TC216		15.1	6.83	16.00	0.10	3.6	0.051	0.41	11.2	22.3	0.20	417	1.16	0.04	7.4	24.0
TC217		7.9	8.42	20.3	0.10	4.8	0.071	0.32	5.4	30.7	0.27	189	1.51	0.03	9.8	21.9
TC218		56.0	1.93	17.25	0.07	4.7	0.036	1.57	16.6	19.1	1.05	201	0.78	1.51	8.0	51.0
TC219		66.1	0.82	7.07	<0.05	2.9	0.028	1.07	9.1	9.4	0.23	100	1.54	0.49	6.1	10.9
TC220		247	3.20	18.45	0.10	4.0	0.072	0.97	48.8	25.5	1.50	451	2.58	2.12	7.2	51.5
TC221		184.0	3.24	18.80	0.44	4.0	0.058	1.27	411	26.2	1.56	395	1.28	1.83	7.3	37.4
TC222		657	2.01	21.9	0.33	5.1	0.138	1.32	186.0	14.5	0.77	186	1.38	1.87	8.4	29.0
TC223		89.0	0.84	12.95	0.06	3.4	0.035	1.08	12.1	13.5	0.26	80	0.67	1.75	9.3	28.5
TC224		136.0	1.56	17.45	<0.05	2.9	0.033	1.71	7.4	16.7	0.69	170	0.48	1.09	6.1	46.8
TC225		252	2.62	23.5	0.22	2.4	0.119	2.95	50.8	14.6	1.02	382	0.35	0.42	8.7	33.6
TC226		562	1.20	18.45	0.09	1.4	0.032	1.87	6.0	18.1	0.32	118	0.46	0.09	7.4	21.2
TC227		86.2	0.98	9.00	0.06	3.1	0.027	1.17	5.0	9.0	0.20	128	0.51	0.97	9.9	10.4
TC228		116.0	5.45	14.50	0.08	5.8	0.053	0.46	6.1	12.5	0.26	234	1.18	0.04	16.2	24.4
TCR001		31.0	7.76	16.20	0.14	2.6	0.090	1.21	29.5	12.4	2.82	2080	0.77	1.51	6.1	24.0
TCR002		89.1	4.29	20.7	0.09	3.8	0.050	1.55	17.4	28.0	2.15	546	3.07	1.77	8.4	46.5
TCR003		32.2	6.00	15.50	0.16	1.7	0.057	1.30	12.0	16.5	4.84	753	0.44	2.25	4.8	78.6



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Project: Thomas Creek

Page: 3 - C
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

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
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TC063		340	11.3	214	<0.002	0.01	2.74	32.4	<1	5.4	69.4	0.61	0.13	8.77	0.485	0.40
TC064		160	4.7	131.0	<0.002	0.04	1.87	25.3	1	5.2	28.8	0.63	0.08	9.35	0.585	0.26
TC200		120	7.0	173.5	<0.002	0.68	1.04	28.2	1	1.9	126.0	0.55	0.06	10.20	0.382	0.39
TC201		110	5.2	98.2	<0.002	0.13	0.93	19.5	1	2.0	79.9	0.58	0.05	8.04	0.388	0.24
TC202		190	25.9	124.0	0.010	6.16	4.64	47.0	4	2.4	64.5	0.40	0.36	20.1	0.381	0.50
TC203		80	6.8	172.5	<0.002	0.07	0.89	21.7	1	2.5	119.5	0.58	<0.05	9.33	0.590	0.34
TC204		130	3.9	101.5	0.002	0.47	0.70	31.7	<1	3.4	17.1	0.65	<0.05	11.55	0.665	0.30
TC205		110	6.4	132.0	<0.002	0.06	1.00	23.3	1	3.5	99.4	0.74	<0.05	12.55	0.479	0.33
TC206		80	10.9	137.5	<0.002	0.08	0.98	30.4	<1	2.3	63.4	0.68	<0.05	10.50	0.701	0.28
TC207		100	8.7	189.5	0.008	1.00	1.71	30.6	1	3.8	88.6	0.54	0.05	13.30	0.548	0.68
TC208		130	8.0	178.5	<0.002	0.03	2.24	33.1	1	7.8	141.5	0.68	<0.05	9.95	0.664	0.46
TC209		190	6.9	96.1	<0.002	0.04	1.28	19.7	2	5.2	23.3	0.66	0.15	7.39	0.625	0.29
TC210		310	6.1	75.8	<0.002	0.05	1.67	19.9	2	2.2	13.3	0.55	0.07	9.17	0.539	0.24
TC211		320	7.8	28.4	<0.002	0.07	2.07	17.8	4	1.2	27.2	0.59	<0.05	11.00	0.563	0.13
TC212		200	6.3	103.0	<0.002	0.04	1.21	14.5	2	2.4	27.4	0.56	<0.05	7.43	0.542	0.44
TC213		230	7.5	43.4	<0.002	0.03	1.51	22.3	2	1.0	41.0	0.46	<0.05	9.70	0.494	0.17
TC214		260	13.0	24.0	<0.002	0.04	1.99	19.4	7	1.5	53.0	0.56	<0.05	12.55	0.514	0.14
TC215		160	7.8	27.8	<0.002	0.03	1.17	21.2	2	1.0	17.8	0.61	<0.05	10.50	0.448	0.23
TC216		210	10.5	25.5	<0.002	0.05	1.26	22.3	2	1.0	16.2	0.59	<0.05	9.61	0.396	0.18
TC217		170	6.9	21.8	<0.002	0.05	1.22	18.2	4	1.2	9.5	0.78	<0.05	12.45	0.503	0.23
TC218		50	2.8	95.8	<0.002	0.20	0.63	29.8	1	2.6	132.0	0.62	<0.05	10.45	0.482	0.22
TC219		60	3.1	46.0	<0.002	0.05	1.15	9.0	<1	2.1	51.1	0.53	<0.05	4.26	0.376	0.12
TC220		80	2.8	39.6	0.002	0.46	1.40	29.0	<1	3.5	84.0	0.61	<0.05	14.35	0.419	0.12
TC221		220	3.2	47.2	0.003	0.07	2.28	32.3	<1	5.0	195.5	0.59	<0.05	16.50	0.383	0.13
TC222		200	6.3	72.7	0.002	0.28	2.61	62.0	1	6.9	132.5	0.77	0.09	22.9	0.473	0.18
TC223		50	3.1	47.4	<0.002	0.03	1.53	21.8	<1	4.4	60.3	0.64	<0.05	7.93	0.488	0.15
TC224		50	6.6	113.0	<0.002	0.16	0.53	28.4	1	1.2	120.5	0.42	<0.05	7.32	0.451	0.20
TC225		350	3.9	111.5	<0.002	0.04	5.40	21.3	1	10.6	115.5	0.71	<0.05	26.9	0.564	0.27
TC226		60	4.5	68.6	0.002	0.04	2.80	3.7	1	2.9	14.0	0.62	0.19	7.01	0.343	0.13
TC227		80	3.9	37.8	<0.002	0.03	3.72	4.6	1	4.6	94.9	0.89	<0.05	10.10	0.425	0.09
TC228		170	7.6	28.5	0.002	0.04	2.42	5.2	2	3.9	77.5	1.45	0.10	12.60	0.882	0.08
TCR001		540	18.1	32.6	<0.002	0.01	1.32	27.7	1	0.9	419	0.41	<0.05	9.62	0.365	0.11
TCR002		260	3.5	73.5	<0.002	0.03	5.39	32.7	1	3.6	164.5	0.59	0.13	13.30	0.502	0.17
TCR003		270	3.3	56.4	0.002	0.02	0.50	33.8	<1	1.5	271	0.31	<0.05	6.65	0.368	0.15



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Page: 3 - D
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
TC063		4.9	162	14.0	19.8	25	147.5
TC064		3.9	301	10.4	7.3	15	128.5
TC200		6.0	199	5.2	24.7	21	140.5
TC201		3.8	128	4.8	12.9	13	175.5
TC202		9.8	515	5.3	27.6	17	102.0
TC203		4.8	215	3.0	7.0	8	140.5
TC204		4.9	426	0.8	14.0	6	152.5
TC205		5.6	212	2.1	13.6	54	251
TC206		3.0	323	2.3	12.8	8	173.5
TC207		8.9	382	3.1	14.2	11	134.0
TC208		3.8	200	3.4	4.9	12	159.5
TC209		2.9	230	9.3	7.3	16	119.5
TC210		3.1	234	5.6	5.5	17	114.0
TC211		2.8	260	5.9	6.6	30	113.0
TC212		2.7	240	11.8	5.5	20	95.3
TC213		2.9	267	4.9	6.4	43	100.5
TC214		3.4	297	5.4	6.5	33	105.0
TC215		2.8	249	2.2	6.9	23	128.5
TC216		2.7	211	1.9	11.9	68	124.0
TC217		3.1	258	2.0	9.6	53	161.0
TC218		3.5	218	1.3	11.2	31	158.0
TC219		1.8	76	1.5	3.5	5	105.5
TC220		7.8	183	2.7	30.7	39	142.5
TC221		8.6	171	2.2	64.5	44	143.5
TC222		16.3	220	2.6	83.5	30	168.5
TC223		3.1	179	3.5	10.3	9	123.0
TC224		2.2	273	1.3	6.9	30	97.7
TC225		6.8	298	14.0	28.3	21	84.1
TC226		3.0	188	9.6	1.8	5	52.6
TC227		1.4	68	7.5	4.8	6	123.5
TC228		2.9	284	11.1	5.3	16	225
TCR001		2.6	221	1.2	22.0	91	93.8
TCR002		4.5	233	2.5	16.8	26	147.0
TCR003		1.0	216	0.5	30.0	18	58.4



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-APR-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS AD18057666

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