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No: 825, Corporate Site No: 23001.

QC CERTIFICATE PH18134486

Project: THOMAS CREEK

P.O. No.: SSF001

This report is for 94 Drill Core samples submitted to our lab in Perth, WA, Australia
on 7-JUN-2018.

The following have access to data associated with this certificate:

ANDY RUST

Page: 1

Total # Pages: 5 (A - D)

Plus Appendix Pages

Finalized Date: 2-JUL-2018

This copy reported on 5-JUL-2018

Account: ACCELE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRSPEC-20	Spectral Scan VNIR and SWIR
CRU-31	Fine crushing - 70% <2mm
SPLIT-D	Create D Split
CRU-QC	Crushing QC Test
SAM-COR01	Sample Core from Boxes - Regular
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish AAS

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: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	Au-DIL25 Au ppm 1	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
STANDARDS																
G312-10		24.4														
G312-10		25.7														
Target Range - Lower Bound		23.4														
Upper Bound		26.4														
G914-10		10.05	10													
Target Range - Lower Bound		9.63														
Upper Bound		10.90														
GBM908-10				2.94	7.37	59.7	1210	1.46	1.12	3.93	1.65	110.0	26.9	151	3.91	3840
GBM908-10				3.01	7.19	50.7	1180	1.41	1.39	3.83	1.73	108.0	27.7	146	3.94	3770
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3350
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3850
JK-17		1.94	2													
Target Range - Lower Bound		1.87														
Upper Bound		2.13														
LEA-16		0.52														
LEA-16		0.53														
Target Range - Lower Bound		0.46														
Upper Bound		0.54														
MRGeo08				4.46	7.91	33.8	1190	3.27	0.65	2.72	2.21	80.0	19.4	91	12.75	644
MRGeo08				4.35	7.50	30.0	1120	3.17	0.64	2.58	2.24	79.4	20.2	90	12.75	612
Target Range - Lower Bound				4.00	6.64	29.5	920	2.98	0.60	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.92	8.14	36.5	1270	3.76	0.76	2.90	2.48	81.0	21.9	102	13.80	675
OGGeo08				20.1	7.17	117.0	370	2.91	10.30	2.34	19.35	71.9	99.5	82	11.40	8900
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
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
OREAS 24b				0.07	7.88	9.0	780	2.51	0.71	1.07	0.05	84.4	16.3	117	10.60	38.5
OREAS 24b				0.08	7.93	9.3	790	2.65	0.71	1.10	0.04	89.6	17.5	120	11.40	40.3
OREAS 24b				0.08	7.84	9.9	780	2.27	0.61	1.09	0.05	84.2	16.4	123	10.65	36.7
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
Upper Bound				0.10	8.60	9.4	830	2.86	0.76	1.18	0.09	93.8	17.8	131	11.80	40.9
OREAS 601				51.4	6.39	334	230	2.00	20.5	1.36	7.97	62.6	5.3	36	6.94	1020
Target Range - Lower Bound				44.3	5.66	276	740	1.81	18.80	1.17	7.05	56.7	4.5	37	6.00	939
Upper Bound				54.1	6.94	338	1020	2.33	23.0	1.45	8.67	69.3	5.8	47	7.44	1080



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Page: 2 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 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
STANDARDS																
G312-10																
G312-10																
Target Range - Lower Bound																
Upper Bound																
G914-10																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		5.83	20.7	0.19	3.9	0.070	2.21	54.4	10.0	1.94	868	67.9	2.26	10.7	2430	1070
GBM908-10		5.71	20.8	0.18	3.9	0.072	2.15	54.7	10.4	1.88	848	63.0	2.21	10.7	2360	1060
Target Range - Lower Bound		4.98	18.65	0.13	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	880
Upper Bound		6.10	22.9	0.35	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2470	1100
JK-17																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.13	18.90	0.15	3.3	0.170	3.26	39.0	29.5	1.41	598	14.95	2.03	21.2	713	1120
MRGeo08		3.90	19.10	0.14	3.2	0.177	3.07	38.8	30.4	1.34	566	14.90	1.93	21.6	681	1060
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160
OGGeo08		5.72	17.20	0.21	2.9	1.440	3.07	36.5	32.2	1.34	555	982	1.90	17.8	9090	940
Target Range - Lower Bound		4.81	16.05	0.25	2.5	1.320	2.59	31.0	29.7	1.11	447	841	1.62	15.4	8000	760
Upper Bound		5.91	19.75	0.49	3.3	1.620	3.19	39.0	36.7	1.38	557	1030	2.00	19.0	9770	950
OREAS 24b		4.48	20.5	0.14	4.1	0.070	2.87	41.8	49.9	1.60	462	4.05	0.84	15.2	59.4	750
OREAS 24b		4.56	21.4	0.17	4.4	0.080	2.87	45.7	57.4	1.64	470	4.16	0.84	15.8	62.1	750
OREAS 24b		4.50	20.3	0.14	4.0	0.071	2.83	42.4	48.6	1.63	469	3.78	0.83	14.3	59.0	730
Target Range - Lower Bound		3.94	18.05	<0.05	3.4	0.063	2.52	37.7	48.4	1.39	391	3.46	0.70	13.0	53.8	610
Upper Bound		4.84	22.2	0.26	4.4	0.091	3.10	47.1	59.6	1.72	489	4.34	0.88	16.2	66.2	770
OREAS 601		2.52	21.0	0.14	4.4	1.775	2.16	31.1	21.5	0.38	508	4.11	1.47	13.2	22.9	480
Target Range - Lower Bound		2.22	18.30	<0.05	4.0	1.550	1.88	27.3	18.3	0.34	427	3.43	1.30	11.2	21.7	410
Upper Bound		2.74	22.5	0.27	5.1	1.910	2.32	34.5	22.8	0.44	533	4.31	1.61	14.0	26.9	530



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1
STANDARDS															
G312-10															
G312-10															
Target Range - Lower Bound															
Upper Bound															
G914-10															
Target Range - Lower Bound															
Upper Bound															
GBM908-10		2170	164.0	<0.002	0.39	1.66	18.8	<1	3.2	317	0.78	<0.05	19.20	0.673	2.3
GBM908-10		2120	170.0	<0.002	0.38	1.56	19.1	<1	3.2	310	0.80	0.05	17.50	0.652	2.2
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.68	<0.05	16.55	0.591	2.0
Upper Bound		2250	187.0	0.006	0.43	2.01	21.0	3	3.9	316	0.97	0.16	20.3	0.733	2.6
JK-17															
Target Range - Lower Bound															
Upper Bound															
LEA-16															
LEA-16															
Target Range - Lower Bound															
Upper Bound															
MRGeo08		1130	210	0.008	0.31	4.52	12.3	1	4.0	330	1.62	<0.05	21.5	0.500	5.7
MRGeo08		1060	211	0.009	0.30	4.47	12.4	<1	3.9	313	1.55	<0.05	21.4	0.475	5.8
Target Range - Lower Bound		971	173.5	0.005	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.14	21.9	0.553	6.2
OGGeo08		7690	192.5	1.390	2.95	26.9	10.4	10	14.3	266	1.41	0.14	18.20	0.412	5.2
Target Range - Lower Bound		6520	164.5	1.285	2.51	22.8	9.2	8	12.5	224	1.19	0.09	16.90	0.353	4.5
Upper Bound		7970	201	1.575	3.09	31.0	11.4	14	15.7	274	1.57	0.31	20.7	0.443	5.8
OREAS 24b		21.1	159.0	<0.002	0.20	0.91	15.1	<1	4.2	127.0	1.15	<0.05	15.95	0.438	3.0
OREAS 24b		22.8	171.0	<0.002	0.20	1.02	16.3	<1	4.5	130.0	1.25	<0.05	17.25	0.445	3.2
OREAS 24b		22.2	165.0	<0.002	0.20	0.93	14.9	<1	4.0	124.5	1.15	<0.05	16.25	0.443	2.9
Target Range - Lower Bound		20.3	147.5	<0.002	0.17	0.76	13.7	<1	3.6	111.5	0.99	<0.05	14.75	0.387	2.7
Upper Bound		25.9	180.5	0.006	0.23	1.15	16.9	3	4.9	136.5	1.33	0.10	18.05	0.484	3.5
OREAS 601		351	96.0	<0.002	1.07	32.5	5.0	12	4.4	238	1.02	15.20	10.95	0.185	4.0
Target Range - Lower Bound		296	87.2	<0.002	0.95	25.8	4.3	9	3.5	207	0.89	14.35	9.80	0.157	3.5
Upper Bound		362	107.0	0.004	1.19	35.0	5.4	15	4.8	253	1.19	17.65	12.00	0.203	4.5



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Page: 2 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS						
G312-10						
G312-10						
Target Range - Lower Bound						
Upper Bound						
G914-10						
Target Range - Lower Bound						
Upper Bound						
GBM908-10		147	4.0	37.9	1110	140.5
GBM908-10		145	3.9	38.6	1090	145.0
Target Range - Lower Bound		123	2.9	35.2	939	117.5
Upper Bound		153	4.1	43.2	1150	160.5
JK-17						
Target Range - Lower Bound						
Upper Bound						
LEA-16						
LEA-16						
Target Range - Lower Bound						
Upper Bound						
MRGeo08		114	4.8	28.0	827	108.5
MRGeo08		110	5.0	28.5	783	106.0
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0
OGGeo08		94	4.9	22.7	7740	98.5
Target Range - Lower Bound		77	3.9	21.1	6500	78.6
Upper Bound		97	5.4	26.0	7950	107.5
OREAS 24b		111	3.5	21.6	107	138.5
OREAS 24b		113	4.0	22.4	110	145.5
OREAS 24b		110	3.4	19.7	109	137.5
Target Range - Lower Bound		96	3.0	18.3	93	113.5
Upper Bound		120	4.3	22.5	118	154.5
OREAS 601		27	6.1	10.8	1400	170.5
Target Range - Lower Bound		22	4.8	10.0	1195	131.5
Upper Bound		29	6.8	12.4	1465	179.0



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Page: 3 - A
Total # Pages: 5 (A - D)
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Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	Au-DIL25 Au ppm 1	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
BLANKS																
BLANK		<0.01														
BLANK		0.02														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
BLANK		0.09	<1													
Target Range - Lower Bound		<0.01	<1													
Upper Bound		0.02	2													
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.02	<0.01	<0.02	0.02	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.11	0.2	<1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.02	0.1	<1	<0.05	0.2
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
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
DUPLICATES																
TCD010				0.68	7.36	8.8	1020	1.31	0.30	1.14	<0.02	142.5	70.9	141	2.79	21.7
DUP				0.10	7.14	8.8	1000	1.28	0.27	1.11	<0.02	135.5	65.5	139	2.74	20.8
Target Range - Lower Bound				0.36	6.88	8.2	920	1.18	0.26	1.06	<0.02	132.0	64.7	132	2.58	20.3
Upper Bound				0.42	7.62	9.4	1100	1.41	0.31	1.19	0.04	146.0	71.7	148	2.95	22.2
TCD030				0.13	7.16	11.9	1030	1.25	0.35	0.79	<0.02	120.0	113.5	89	2.69	36.1
DUP				0.15	6.86	10.9	1040	1.12	0.30	0.74	0.02	110.0	103.5	80	2.49	31.8
Target Range - Lower Bound				0.12	6.65	10.6	950	1.08	0.30	0.72	<0.02	109.0	103.0	79	2.41	32.6
Upper Bound				0.16	7.37	12.2	1120	1.29	0.35	0.81	0.04	121.0	114.0	90	2.77	35.3
TCD044				0.49	6.05	35.8	70	2.42	1.40	2.44	0.10	>500	3330	58	0.85	557
DUP				0.49	5.70	32.7	120	2.10	1.36	2.27	0.11	>500	3140	60	0.81	527
Target Range - Lower Bound				0.46	5.57	32.3	80	2.10	1.30	2.23	0.08	475	3070	55	0.74	523
Upper Bound				0.52	6.18	36.2	110	2.42	1.46	2.48	0.13	>500	3400	63	0.92	561
TCD060		0.01														
DUP		<0.01	<1													
Target Range - Lower Bound		<0.01	<1													
Upper Bound		0.02	2													



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Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 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
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<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
BLANK		<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
BLANK		<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
Target Range - Lower Bound		<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
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20
DUPLICATES																
TCD010		8.17	15.45	0.15	3.5	0.025	2.88	74.3	23.3	2.44	564	2.38	1.52	6.2	42.0	490
DUP		7.92	15.45	0.20	3.5	0.025	2.79	70.4	23.2	2.39	548	2.34	1.47	6.2	40.3	490
Target Range - Lower Bound		7.63	14.65	0.12	3.2	0.019	2.68	68.2	21.9	2.28	523	2.19	1.41	5.8	38.9	460
Upper Bound		8.46	16.25	0.23	3.8	0.031	2.99	76.5	24.6	2.55	589	2.53	1.58	6.6	43.4	520
TCD030		8.71	14.95	0.15	3.6	0.039	3.23	67.9	26.5	2.82	822	5.80	1.70	6.6	141.5	460
DUP		8.33	13.75	0.16	3.3	0.035	3.11	61.6	24.0	2.69	781	5.03	1.64	6.0	132.0	450
Target Range - Lower Bound		8.08	13.60	0.10	3.2	0.030	3.00	61.0	23.8	2.61	756	5.09	1.58	5.9	129.5	420
Upper Bound		8.96	15.10	0.21	3.7	0.044	3.34	68.5	26.7	2.90	847	5.74	1.76	6.7	144.0	490
TCD044		18.05	27.8	1.37	2.4	0.077	2.50	1320	17.0	2.13	563	59.7	0.29	5.3	204	750
DUP		17.10	25.8	1.44	2.3	0.074	2.35	1250	15.1	2.00	528	56.9	0.28	5.0	188.5	700
Target Range - Lower Bound		16.70	25.4	1.28	2.1	0.067	2.29	1220	15.0	1.95	513	55.3	0.26	4.8	186.0	680
Upper Bound		18.45	28.2	1.53	2.6	0.084	2.56	1350	17.1	2.18	578	61.3	0.31	5.5	206	770
TCD060																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Project: THOMAS CREEK

Page: 3 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	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
Sample Description															
BLANK	BLANKS														
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	0.7	<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
BLANK	0.7	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
BLANK	0.9	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
Target Range - Lower Bound	<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
Upper Bound	1.0	0.2	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
DUPLICATES															
TCD010	17.2	149.5	<0.002	0.94	0.55	23.3	<1	3.0	148.5	0.42	0.09	10.85	0.343	0.22	3.0
DUP	16.1	146.5	<0.002	0.89	0.55	23.1	<1	3.1	143.5	0.40	0.09	10.10	0.329	0.21	3.0
Target Range - Lower Bound	15.3	140.5	<0.002	0.86	0.46	21.9	<1	2.7	138.5	0.34	<0.05	9.94	0.314	0.18	2.8
Upper Bound	18.0	155.5	0.004	0.97	0.64	24.5	2	3.4	153.5	0.48	0.10	11.00	0.358	0.25	3.3
TCD030	7.5	147.0	0.002	1.30	0.64	18.4	1	4.3	158.5	0.47	0.20	13.00	0.321	0.26	6.4
DUP	6.8	135.0	<0.002	1.23	0.59	16.9	1	4.0	149.5	0.43	0.16	11.75	0.307	0.24	5.9
Target Range - Lower Bound	6.3	134.0	<0.002	1.19	0.52	16.7	<1	3.7	146.0	0.38	0.12	11.75	0.293	0.21	5.7
Upper Bound	8.0	148.0	0.004	1.34	0.71	18.6	2	4.6	162.0	0.52	0.24	13.00	0.335	0.29	6.6
TCD044	481	120.0	0.060	>10.0	3.03	69.5	3	15.1	410	0.86	0.52	26.8	0.266	0.28	8.6
DUP	446	113.0	0.055	>10.0	2.91	65.0	3	14.4	388	0.84	0.49	25.2	0.252	0.28	8.3
Target Range - Lower Bound	440	110.5	0.053	9.49	2.70	63.8	2	13.8	379	0.76	0.43	24.7	0.241	0.24	7.9
Upper Bound	487	122.5	0.062	10.00	3.24	70.7	4	15.7	419	0.94	0.58	27.3	0.277	0.32	9.0
TCD060															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Project: THOMAS CREEK

Page: 3 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BLANK BLANK Target Range - Lower Bound Upper Bound BLANK Target Range - Lower Bound Upper Bound BLANK BLANK BLANK Target Range - Lower Bound Upper Bound						
BLANKS						
		<1	<0.1	<0.1	<2	<0.5
		<1	<0.1	<0.1	<2	<0.5
		<1	<0.1	<0.1	<2	<0.5
		<1	<0.1	<0.1	<2	<0.5
		2	0.2	0.2	4	1.0
DUPLICATES						
TCD010 DUP Target Range - Lower Bound Upper Bound		160 156 149 167	0.9 0.8 0.7 1.0	17.5 17.2 16.4 18.3	41 39 36 44	137.0 133.5 124.5 146.0
TCD030 DUP Target Range - Lower Bound Upper Bound		100 94 91 103	1.6 1.5 1.3 1.8	14.1 13.1 12.8 14.4	74 71 67 78	129.0 121.5 115.5 135.0
TCD044 DUP Target Range - Lower Bound Upper Bound		192 182 177 197	1.2 1.2 1.0 1.4	41.6 39.1 38.2 42.5	56 53 50 59	89.5 85.5 80.4 94.6
TCD060 DUP Target Range - Lower Bound Upper Bound						



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Project: THOMAS CREEK

Page: 4 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	Au-DIL25 Au ppm 1	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
DUPLICATES																
TCD064				0.07	7.39	7.9	1850	0.90	0.15	0.85	<0.02	126.0	80.0	114	2.23	184.0
DUP				0.06	7.23	7.7	1800	0.92	0.15	0.83	<0.02	130.5	80.3	113	2.23	179.0
Target Range - Lower Bound				0.05	6.93	7.2	1680	0.81	0.13	0.79	<0.02	122.0	76.0	107	2.07	175.0
Upper Bound				0.08	7.69	8.4	1970	1.01	0.17	0.89	0.04	134.5	84.3	120	2.39	188.0
TCD078				0.13	7.64	22.1	1360	0.76	0.31	1.00	0.03	60.5	111.0	106	1.94	340
DUP				0.11	7.32	22.1	2230	0.75	0.29	0.95	<0.02	58.7	108.0	104	1.94	327
Target Range - Lower Bound				0.10	7.10	20.8	1650	0.67	0.28	0.92	<0.02	56.6	104.0	99	1.79	322
Upper Bound				0.14	7.86	23.4	1940	0.84	0.33	1.03	0.04	62.6	115.0	111	2.09	345
TCD080		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD115		0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD135		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD155		0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														



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Project: THOMAS CREEK

Page: 4 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 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
DUPLICATES																
TCD064		5.99	13.70	0.16	3.4	0.027	4.43	72.9	25.6	2.91	688	3.01	1.33	6.3	61.6	260
DUP		5.92	14.30	0.15	3.3	0.028	4.25	73.7	25.1	2.83	675	3.87	1.30	6.5	63.1	250
Target Range - Lower Bound		5.65	13.25	0.10	3.1	0.021	4.11	69.1	23.9	2.72	642	3.22	1.24	6.0	59.0	230
Upper Bound		6.26	14.75	0.21	3.6	0.034	4.57	77.5	26.8	3.02	721	3.66	1.39	6.8	65.7	280
TCD078		6.03	14.30	0.10	4.0	0.026	5.60	33.9	26.9	2.73	841	8.09	0.81	6.7	104.5	1200
DUP		5.88	14.20	0.11	3.9	0.027	5.39	33.6	26.6	2.63	816	8.05	0.78	6.5	101.5	1190
Target Range - Lower Bound		5.65	13.50	<0.05	3.7	0.020	5.21	31.6	25.2	2.54	782	7.62	0.75	6.2	97.7	1130
Upper Bound		6.26	15.00	0.16	4.2	0.033	5.78	35.9	28.3	2.82	875	8.52	0.84	7.0	108.5	1260
TCD080																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD115																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD135																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD155																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

Page: 4 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	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
DUPLICATES																
TCD064		4.7	157.0	0.003	0.65	0.59	23.3	<1	2.4	130.0	0.48	0.09	11.55	0.344	0.30	12.9
DUP		4.2	157.5	0.004	0.63	0.59	22.9	<1	2.5	129.5	0.50	0.07	10.80	0.343	0.26	11.7
Target Range - Lower Bound		3.7	149.5	<0.002	0.60	0.50	21.8	<1	2.1	123.0	0.42	<0.05	10.60	0.321	0.24	11.6
Upper Bound		5.2	165.0	0.004	0.68	0.68	24.4	2	2.8	136.5	0.56	0.10	11.75	0.366	0.32	13.0
TCD078		14.9	164.5	0.009	1.19	0.57	21.3	1	2.9	153.5	0.48	0.15	14.90	0.363	0.29	7.0
DUP		14.4	157.5	0.010	1.18	0.53	20.9	<1	3.0	149.0	0.49	0.13	14.20	0.349	0.29	5.8
Target Range - Lower Bound		13.4	153.0	0.007	1.12	0.46	19.9	<1	2.6	143.5	0.41	0.08	13.80	0.333	0.25	6.0
Upper Bound		15.9	169.0	0.012	1.25	0.64	22.3	2	3.3	159.0	0.56	0.20	15.30	0.379	0.33	6.8
TCD080																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD115																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD135																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD155																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
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DUP																
Target Range - Lower Bound																
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Project: THOMAS CREEK

Page: 4 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
DUPLICATES						
TCD064		121	1.2	9.5	69	133.0
DUP		120	1.2	9.7	65	131.5
Target Range - Lower Bound		113	1.0	9.0	62	122.0
Upper Bound		128	1.4	10.2	72	142.5
TCD078		124	1.5	10.1	58	144.0
DUP		120	1.4	9.9	55	139.0
Target Range - Lower Bound		115	1.2	9.4	52	130.5
Upper Bound		129	1.7	10.6	61	152.5
TCD080						
DUP						
Target Range - Lower Bound						
Upper Bound						
TCD115						
DUP						
Target Range - Lower Bound						
Upper Bound						
TCD135						
DUP						
Target Range - Lower Bound						
Upper Bound						
TCD155						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						



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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

Page: 5 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	Au-AA25	Au-DIL25	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
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
		DUPLICATES														
ORIGINAL		0.07														
DUP		0.05														
Target Range - Lower Bound		0.05														
Upper Bound		0.07														



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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

Page: 5 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 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
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															



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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

Page: 5 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES													



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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

Page: 5 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 2-JUL-2018
Account: ACCELE

QC CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES				



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

Project: THOMAS CREEK

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 2-JUL-2018
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QC CERTIFICATE OF ANALYSIS PH18134486

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-AA25 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-AA25	BAG-01	CRU-21	CRU-31
CRU-QC	LEV-01	LOG-22	ME-MS61
PUL-23	PUL-QC	SAM-COR01	SPL-21
SPLIT-D	TRSPEC-20	WEI-21	