



Australian Laboratory Services Pty. Ltd.

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PO BOX 103

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Page: 1

Total # Pages: 5 (A – E)

Plus Appendix Pages

Finalized Date: 24-DEC-2024

Account: LAGCRE

QC CERTIFICATE MI24322690

Project: LAGCRE047

This report is for 217 samples of 1/2 Core submitted to our lab in Mount Isa, QLD, Australia on 12-NOV-2024.

The following have access to data associated with this certificate:

RHYS DAVIES
KATE PEARSE

MICHELLE ELLIS

LLOYD JONES

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-22Y	Split Sample – Boyd Rotary Splitter
BAG-01	Bulk Master for Storage
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
LOG-24	Pulp Login – Rcd w/o Barcode
LEV-01	Waste Disposal Levy
PUL-32m	Pulverize 500g – 85%<75um
RAD-01	Radiation Compliance Fee
LEV-02	Remote Lab Surcharge
CRU-32c	Fine Crushing 90% <4mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61r	4A multi-element ICP-MS + REE	
Au-AA23	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:

Shaun Kenny, Brisbane Laboratory Manager



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		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													0.05
STANDARDS															
CT-22															
CT-22															
Target Range - Lower Bound															
Upper Bound															
EMOG-17		63.6	4.37	532	430	1.69	5.86	1.84	19.55	46.2	714	54	7.10	8070	4.63
EMOG-17		64.3	4.41	539	450	1.65	5.55	1.82	18.70	43.8	736	54	7.04	7990	4.59
EMOG-17		66.8	4.60	576	570	1.78	5.66	1.88	20.3	47.9	759	56	7.59	8270	4.79
EMOG-17		67.5	4.57	565	630	1.79	5.74	1.87	20.0	48.2	772	54	7.37	8260	4.90
EMOG-17		66.8	4.46	547	250	1.76	5.38	1.88	18.65	44.7	732	53	7.33	8290	4.79
Target Range - Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GBM321-8		2.99	7.24	55.6	1130	1.43	1.20	3.78	1.71	107.0	28.4	142	4.02	3640	5.54
GBM321-8		2.92	6.99	54.7	1110	1.40	1.08	3.69	1.69	104.5	27.3	146	3.73	3530	5.32
GBM321-8		2.96	7.25	56.8	1130	1.44	1.25	3.76	1.68	100.5	26.4	146	3.53	3550	5.54
Target Range - Lower Bound		2.69	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380	4.98
Upper Bound		3.31	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890	6.10
GLG322-5															
GLG322-5															
Target Range - Lower Bound															
Upper Bound															
MRCA-21		8.81	8.00	19.6	1320	2.77	1.84	1.87	2.35	108.5	33.0	46	13.20	993	3.46
MRCA-21		8.25	7.48	19.2	1260	2.64	1.35	1.76	2.16	97.0	30.8	45	11.85	937	3.30
MRCA-21		8.35	7.80	19.4	1280	2.69	1.42	1.79	2.21	100.5	29.6	44	11.95	931	3.37
Target Range - Lower Bound		7.57	6.83	17.2	1050	2.35	1.39	1.58	1.99	92.7	28.0	38	10.75	877	3.05
Upper Bound		9.27	8.37	21.4	1440	2.99	1.73	1.96	2.47	113.5	34.4	49	13.25	1010	3.75
OREAS 240															
Target Range - Lower Bound															
Upper Bound															
OREAS 507		1.32	7.34	45.3	1060	2.37	1.78	1.74	0.65	71.9	7.8	45	11.05	6210	2.99
OREAS 507		1.33	7.44	48.3	1080	2.36	1.83	1.72	0.63	74.4	7.9	46	11.25	6130	3.04
OREAS 507		1.38	7.59	47.4	1110	2.49	1.66	1.76	0.68	76.7	7.8	46	11.60	6200	3.10
OREAS 507		1.35	7.73	50.3	1110	2.49	1.92	1.78	0.72	76.7	8.0	45	11.75	6310	3.11
OREAS 507		1.38	7.61	48.8	1100	2.48	1.76	1.74	0.67	73.8	8.4	46	11.35	6220	3.07
OREAS 507		1.40	7.28	47.0	1070	2.42	1.70	1.72	0.66	73.9	8.1	43	11.05	6240	3.05
Target Range - Lower Bound		1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780	2.81
Upper Bound		1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660	3.45
OREAS L11															
Target Range - Lower Bound															
Upper Bound															



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Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Method Analyte Units LOD	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
Sample Description															
CT-22	STANDARDS														
CT-22															
Target Range - Lower Bound															
Upper Bound															
EMOG-17	0.08	1.7	0.903	1.58	24.8	25.8	0.90	709	1060	1.04	14.4	7380	760	6920	108.5
EMOG-17	0.17	1.7	0.882	1.57	22.9	25.7	0.89	716	1065	1.04	14.4	7370	760	6880	106.0
EMOG-17	0.16	1.8	0.940	1.63	24.8	27.3	0.92	742	1110	1.08	14.7	7600	830	7180	113.5
EMOG-17	0.17	1.8	0.931	1.64	24.9	26.9	0.92	738	1110	1.08	14.6	7530	810	7280	112.0
EMOG-17	0.15	1.7	0.910	1.61	23.3	26.5	0.93	729	1060	1.08	14.1	7580	800	6850	108.5
Target Range - Lower Bound	<0.05	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound	0.25	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM321-8	0.20	3.5	0.073	2.14	55.2	11.4	1.81	809	64.2	2.19	11.0	2300	1010	2060	174.0
GBM321-8	0.19	3.7	0.072	2.06	54.1	11.2	1.75	788	63.1	2.07	10.9	2230	980	2030	163.5
GBM321-8	0.18	3.7	0.075	2.14	51.1	11.2	1.80	802	63.8	2.18	10.9	2290	1000	2040	161.0
Target Range - Lower Bound	<0.05	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	880	1845	153.0
Upper Bound	0.24	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	1100	2250	187.0
GLG322-5															
GLG322-5															
Target Range - Lower Bound															
Upper Bound															
MRCA-21	0.17	1.9	0.130	2.98	59.3	63.4	0.75	8450	25.7	2.05	15.1	991	930	940	188.0
MRCA-21	0.16	1.8	0.117	2.81	51.4	59.9	0.70	8040	25.0	1.93	15.1	942	880	903	163.0
MRCA-21	0.14	1.9	0.117	2.88	55.8	61.1	0.71	8100	24.0	1.99	15.0	956	870	902	167.0
Target Range - Lower Bound	<0.05	1.5	0.103	2.58	49.0	54.7	0.65	7330	22.5	1.79	12.9	849	770	816	154.5
Upper Bound	0.23	2.1	0.137	3.18	61.0	67.3	0.82	8970	27.7	2.21	15.9	1040	970	998	189.5
OREAS 240															
Target Range - Lower Bound															
Upper Bound															
OREAS 507	0.08	1.8	0.148	3.02	35.6	49.0	0.68	342	112.0	2.03	12.9	15.6	840	36.2	163.0
OREAS 507	0.17	2.2	0.146	3.09	35.7	49.9	0.69	353	114.5	2.06	13.1	16.2	850	37.3	161.5
OREAS 507	0.16	2.0	0.153	3.11	36.5	51.0	0.69	359	112.0	2.06	13.0	16.0	890	37.7	171.5
OREAS 507	0.17	2.0	0.155	3.15	37.5	51.3	0.70	360	116.0	2.08	13.6	15.2	880	36.7	170.5
OREAS 507	0.16	2.1	0.147	3.11	36.3	50.7	0.69	353	116.0	2.07	13.2	16.8	880	36.1	170.5
OREAS 507	0.17	1.9	0.147	3.04	35.9	50.2	0.70	348	110.0	2.07	12.2	15.6	860	38.6	162.0
Target Range - Lower Bound	0.07	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770	32.9	146.5
Upper Bound	0.31	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970	41.3	179.5
OREAS L11															
Target Range - Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		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
STANDARDS																
CT-22																
CT-22																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.294	3.02	754	7.3	6	2.4	193.5	0.88	1.23	10.70	0.301	2.09	3.0	69	3.6
EMOG-17		0.301	2.99	732	7.9	6	2.5	192.5	0.89	1.19	10.45	0.302	2.13	3.1	69	3.7
EMOG-17		0.306	3.20	785	8.3	6	2.5	201	0.92	1.28	10.45	0.313	2.04	3.1	71	3.7
EMOG-17		0.313	3.16	783	8.4	6	2.5	201	0.88	1.27	11.65	0.312	2.19	3.3	71	3.6
EMOG-17		0.293	3.08	771	7.7	6	2.4	199.0	0.87	1.28	10.65	0.308	2.06	3.0	71	3.5
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.285	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.359	2.61	3.7	84	4.7
GBM321-8		<0.002	0.38	1.60	19.5	1	3.1	295	0.69	0.06	17.60	0.658	1.27	2.3	136	3.1
GBM321-8		<0.002	0.32	1.62	19.2	<1	3.1	283	0.70	<0.05	17.70	0.637	1.20	2.1	134	3.2
GBM321-8		<0.002	0.40	1.63	17.8	1	2.9	295	0.76	0.05	17.00	0.662	1.19	2.2	137	3.3
Target Range – Lower Bound		<0.002	0.31	1.40	16.7	<1	2.7	258	0.64	<0.05	16.00	0.591	1.01	2.0	123	2.9
Upper Bound		0.005	0.41	2.01	20.7	2	3.9	316	0.92	0.15	19.55	0.733	1.41	2.6	153	4.1
GLG322-5																
GLG322-5																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		0.013	0.45	28.0	9.7	1	5.0	184.5	1.14	0.16	16.95	0.376	1.23	3.9	64	12.7
MRCA-21		0.013	0.43	26.5	9.2	1	4.8	172.5	1.08	0.12	14.70	0.355	1.12	3.7	62	9.5
MRCA-21		0.012	0.43	28.0	8.4	1	4.7	177.0	1.11	0.13	14.90	0.370	1.09	4.0	64	11.1
Target Range – Lower Bound		0.008	0.38	22.8	8.0	<1	4.3	156.5	0.98	<0.05	13.95	0.328	0.97	3.7	57	9.3
Upper Bound		0.018	0.49	31.0	10.0	3	5.7	191.5	1.30	0.23	17.05	0.412	1.37	4.8	71	12.9
OREAS 240																
Target Range – Lower Bound																
Upper Bound																
OREAS 507		0.082	0.71	5.02	8.0	4	4.6	215	1.06	0.66	14.20	0.341	0.89	4.4	61	8.4
OREAS 507		0.087	0.72	5.08	8.5	4	4.7	215	1.08	0.69	14.75	0.346	0.92	3.7	64	8.6
OREAS 507		0.087	0.74	5.08	8.7	4	4.8	218	1.05	0.67	14.25	0.349	0.89	3.6	63	8.0
OREAS 507		0.085	0.75	5.55	8.9	4	4.9	224	1.03	0.69	14.95	0.349	0.91	4.5	64	9.4
OREAS 507		0.085	0.74	5.19	9.1	4	4.7	218	1.05	0.71	14.20	0.347	0.92	4.0	63	9.3
OREAS 507		0.081	0.73	5.09	8.1	4	4.7	216	1.00	0.71	14.20	0.341	0.91	3.8	64	8.5
Target Range – Lower Bound		0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6	58	7.8
Upper Bound		0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6	73	10.8
OREAS L11																
Target Range – Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb	Tm	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01	0.01	0.03
STANDARDS																
CT-22																
CT-22																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		15.9	7180	62.8	2.80	1.48	0.85	3.13	0.55	0.20	20.2	5.54	3.67	0.47	0.21	1.33
EMOG-17		15.2	6930	70.0	2.67	1.49	0.84	2.99	0.54	0.20	18.8	5.30	3.42	0.45	0.21	1.31
EMOG-17		16.6	7510	62.6	2.67	1.53	0.85	3.07	0.54	0.21	20.1	5.60	3.45	0.48	0.22	1.35
EMOG-17		16.4	7400	69.5	2.71	1.52	0.84	3.08	0.54	0.22	20.5	5.51	3.50	0.49	0.22	1.41
EMOG-17		15.5	7330	62.5	2.62	1.48	0.80	2.96	0.53	0.20	19.4	5.48	3.55	0.45	0.21	1.30
Target Range – Lower Bound		14.3	6800	55.6	2.53	1.41	0.71	2.85	0.48	0.19	17.8	4.65	3.40	0.41	0.19	1.30
Upper Bound		17.7	8320	76.4	3.53	1.97	1.03	3.97	0.68	0.27	24.3	6.37	4.66	0.57	0.29	1.82
GBM321-8		37.9	1095	141.0	6.56	3.72	1.96	7.10	1.36	0.50	46.2	12.65	7.88	1.12	0.53	3.23
GBM321-8		37.1	1070	144.0	6.37	3.53	1.76	6.91	1.30	0.48	43.9	12.25	7.90	1.09	0.51	3.17
GBM321-8		36.2	1055	136.0	6.56	3.75	1.80	7.31	1.32	0.48	43.4	11.60	8.15	1.16	0.52	3.28
Target Range – Lower Bound		33.7	961	117.5	5.70	3.26	1.57	6.49	1.14	0.42	36.2	9.83	7.02	0.99	0.46	2.83
Upper Bound		41.4	1180	160.5	7.82	4.48	2.19	8.89	1.56	0.60	49.2	13.35	9.56	1.37	0.64	3.91
GLG322-5																
GLG322-5																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		18.7	880	61.7	4.05	1.57	1.75	6.29	0.66	0.18	45.5	13.25	7.91	0.88	0.20	1.22
MRCA-21		16.9	837	60.7	3.67	1.35	1.47	5.49	0.59	0.17	39.9	11.15	7.37	0.76	0.18	1.10
MRCA-21		17.7	823	58.8	3.90	1.52	1.56	5.86	0.63	0.17	41.8	11.65	7.81	0.84	0.19	1.12
Target Range – Lower Bound		15.6	740	50.5	3.43	1.28	1.33	5.30	0.53	0.14	35.4	9.83	6.97	0.69	0.15	1.02
Upper Bound		19.2	908	69.5	4.75	1.81	1.87	7.28	0.74	0.21	48.2	13.35	9.49	0.96	0.23	1.45
OREAS 240																
Target Range – Lower Bound																
Upper Bound																
OREAS 507		15.9	156	65.5	3.56	1.34	1.29	5.22	0.56	0.15	33.5	8.84	6.66	0.73	0.16	1.05
OREAS 507		33.4	158	64.1	3.43	1.35	1.35	5.16	0.57	0.17	34.0	9.14	6.44	0.70	0.18	1.04
OREAS 507		16.6	167	67.7	3.46	1.35	1.30	5.20	0.58	0.17	33.9	9.27	6.32	0.71	0.18	1.06
OREAS 507		16.3	169	68.8	3.41	1.34	1.36	5.14	0.57	0.17	34.0	9.53	6.61	0.72	0.18	1.24
OREAS 507		16.3	169	70.7	3.40	1.36	1.32	5.17	0.56	0.17	33.3	8.77	6.22	0.73	0.17	1.07
OREAS 507		15.6	158	65.5	3.48	1.40	1.28	5.24	0.57	0.16	34.5	9.21	6.69	0.72	0.17	1.08
Target Range – Lower Bound		13.9	143	53.9	3.15	1.19	1.10	5.03	0.52	0.14	28.7	7.36	5.87	0.66	0.15	1.00
Upper Bound		17.2	179	74.1	4.39	1.67	1.56	6.93	0.72	0.22	39.1	10.00	8.01	0.92	0.23	1.42
OREAS L11																
Target Range – Lower Bound																
Upper Bound																



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Account: LAGCRE

Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005
STANDARDS		
CT-22		2.70
CT-22		2.65
Target Range – Lower Bound		2.42
Upper Bound		2.74
EMOG-17		
EMOG-17		
EMOG-17		
EMOG-17		
EMOG-17		
Target Range – Lower Bound		
Upper Bound		
GBM321-8		
GBM321-8		
GBM321-8		
Target Range – Lower Bound		
Upper Bound		
GLG322-5		0.030
GLG322-5		0.033
Target Range – Lower Bound		0.021
Upper Bound		0.041
MRCA-21		
MRCA-21		
MRCA-21		
Target Range – Lower Bound		
Upper Bound		
OREAS 240		5.52
Target Range – Lower Bound		5.17
Upper Bound		5.85
OREAS 507		
OREAS 507		
OREAS 507		
OREAS 507		
OREAS 507		
OREAS 507		
Target Range – Lower Bound		
Upper Bound		
OREAS L11		0.318
Target Range – Lower Bound		0.282
Upper Bound		0.328



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Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<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
BLANK		<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
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.3	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
BLANK		<0.01	0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
BLANK		<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
BLANK		<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
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.5	<0.01	<0.05
BLANK		<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
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
DUPLICATES																
ORIGINAL		0.03	6.94	1.1	410	0.61	0.06	5.41	0.06	16.25	51.9	58	8.45	121.5	10.50	19.85
DUP		0.04	6.88	1.1	410	0.62	0.06	5.37	0.06	16.15	51.0	58	8.00	121.0	10.40	19.60
Target Range – Lower Bound		0.02	6.55	0.8	370	0.53	0.05	5.11	0.04	15.40	48.8	54	7.76	117.0	9.92	18.70
Upper Bound		0.05	7.27	1.4	450	0.70	0.07	5.67	0.08	17.00	54.1	62	8.69	125.5	11.00	20.8
LCD002370																
DUP																
Target Range – Lower Bound																
Upper Bound																
LCD002382																
DUP		0.05	7.09	4.2	190	6.07	1.41	2.60	0.10	55.3	16.2	117	14.00	12.8	3.93	18.95
		0.05	7.06	4.2	190	5.97	1.39	2.56	0.09	54.8	15.6	119	13.90	12.6	3.93	18.80
Target Range – Lower Bound		0.04	6.71	3.8	170	5.67	1.32	2.44	0.07	52.3	15.0	111	13.20	12.1	3.72	17.90
Upper Bound		0.06	7.44	4.6	210	6.37	1.48	2.72	0.12	57.8	16.8	125	14.70	13.3	4.14	19.85



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Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<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
BLANK		0.07	<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
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	0.4	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.3	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.06	0.01	<0.1	0.2	<10	0.5	<0.1
BLANK		<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
BLANK		<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
BLANK		<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
BLANK		<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
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
DUPLICATES																
ORIGINAL		0.15	1.5	0.105	1.41	6.2	46.8	3.57	3040	0.54	2.58	5.3	51.5	620	2.7	127.0
DUP		0.10	1.3	0.104	1.39	5.9	46.1	3.54	3040	0.67	2.55	5.3	52.1	620	3.6	120.0
Target Range - Lower Bound		0.07	1.2	0.094	1.32	5.2	43.9	3.37	2880	0.52	2.43	4.9	49.0	580	2.5	117.0
Upper Bound		0.18	1.6	0.115	1.48	6.9	49.0	3.74	3200	0.69	2.70	5.7	54.6	660	3.8	130.0
LCD002370																
DUP																
Target Range - Lower Bound																
Upper Bound																
LCD002382		0.13	5.9	0.175	3.47	27.0	7.8	2.03	1795	0.19	0.03	13.3	53.5	850	5.3	233
DUP		0.12	5.9	0.167	3.44	26.6	7.7	2.00	1785	0.24	0.03	13.0	52.7	830	5.2	237
Target Range - Lower Bound		0.07	5.5	0.157	3.27	25.0	7.2	1.90	1695	0.15	0.02	12.4	50.2	790	4.5	223
Upper Bound		0.18	6.3	0.185	3.64	28.6	8.3	2.13	1885	0.28	0.04	13.9	56.0	890	6.0	247



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Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1
BLANKS																
BLANK																
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
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
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
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
BLANK		<0.002	<0.01	0.07	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
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
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
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
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
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	5	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
DUPLICATES																
ORIGINAL		<0.002	0.08	0.23	43.8	1	1.0	83.7	0.32	<0.05	0.52	0.891	0.80	0.2	403	0.3
DUP		0.002	0.09	0.35	43.4	<1	0.9	81.6	0.32	<0.05	1.76	0.884	0.75	0.4	395	0.3
Target Range - Lower Bound		<0.002	0.07	0.22	41.3	<1	0.7	78.3	0.25	<0.05	1.07	0.838	0.70	0.2	378	0.2
Upper Bound		0.004	0.10	0.36	45.9	2	1.2	87.0	0.39	0.10	1.21	0.937	0.85	0.4	420	0.4
LCD002370																
DUP																
Target Range - Lower Bound																
Upper Bound																
LCD002382																
DUP		<0.002	<0.01	1.00	20.5	<1	2.9	18.0	0.91	0.70	9.66	0.539	0.97	3.4	126	2.8
DUP		<0.002	<0.01	0.98	20.3	<1	2.9	18.2	0.90	0.64	9.53	0.538	0.95	3.4	121	2.9
Target Range - Lower Bound		<0.002	<0.01	0.87	19.3	<1	2.6	17.0	0.81	0.59	9.11	0.507	0.87	3.1	116	2.5
Upper Bound		0.004	0.02	1.11	21.5	2	3.2	19.2	1.00	0.75	10.10	0.570	1.05	3.7	131	3.2



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.1	2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	0.01	0.02	<0.1	<0.03	<0.03	0.01	0.02	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	0.02	0.02	<0.1	<0.03	<0.03	0.02	0.02	<0.03
BLANK		<0.1	3	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
BLANK		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
Target Range – Lower Bound		<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01	<0.03
Upper Bound		0.2	4	1.0	0.10	0.06	0.06	0.10	0.02	0.02	0.2	0.06	0.06	0.02	0.02	0.06
DUPLICATES																
ORIGINAL		29.9	322	43.5	5.10	3.00	1.26	4.67	1.07	0.41	12.4	2.47	3.65	0.79	0.41	2.70
DUP		28.7	322	40.3	5.03	2.93	1.24	4.61	1.08	0.39	12.1	2.40	3.51	0.78	0.41	2.61
Target Range – Lower Bound		27.7	304	39.3	4.64	2.71	1.13	4.24	0.98	0.36	11.2	2.22	3.28	0.72	0.37	2.43
Upper Bound		30.9	340	44.5	5.49	3.22	1.37	5.04	1.17	0.44	13.3	2.65	3.88	0.85	0.45	2.88
LCD002370																
DUP																
Target Range – Lower Bound																
Upper Bound																
LCD002382																
DUP		27.6	21	228	4.73	2.68	1.38	4.97	0.96	0.38	26.0	7.10	5.04	0.82	0.38	2.33
DUP		27.9	21	222	4.74	2.62	1.35	4.88	0.95	0.36	25.2	7.21	4.90	0.82	0.37	2.33
Target Range – Lower Bound		26.3	18	213	4.33	2.42	1.23	4.51	0.87	0.33	23.6	6.59	4.57	0.75	0.34	2.13
Upper Bound		29.2	24	237	5.14	2.88	1.50	5.34	1.04	0.41	27.6	7.72	5.37	0.89	0.41	2.53



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Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005
BLANKS		
BLANK		<0.005
BLANK		<0.005
BLANK		<0.005
Target Range – Lower Bound		<0.005
Upper Bound		0.010
BLANK		
BLANK		
BLANK		
BLANK		
BLANK		
BLANK		
BLANK		
BLANK		
Target Range – Lower Bound		
Upper Bound		
DUPLICATES		
ORIGINAL		
DUP		
Target Range – Lower Bound		
Upper Bound		
LCD002370		<0.005
DUP		0.005
Target Range – Lower Bound		<0.005
Upper Bound		0.010
LCD002382		
DUP		
Target Range – Lower Bound		
Upper Bound		

***** See Appendix Page for comments regarding this certificate *****



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Project: LAGCRE047

QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
LCD002390 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002410 DUP Target Range – Lower Bound Upper Bound																
LCD002418 DUP Target Range – Lower Bound Upper Bound		<0.01 0.05 0.02 0.04	1.39 1.37 1.30 1.46	1.4 1.5 1.2 1.7	20 20 <10 30	0.49 0.48 0.41 0.56	0.04 0.06 0.04 0.06	0.03 0.03 0.02 0.04	<0.02 <0.02 <0.02 0.04	25.9 26.4 24.8 27.5	0.9 1.6 1.1 1.4	10 10 9 12	3.45 3.41 3.21 3.65	2.5 9.6 5.6 6.5	1.06 1.05 0.99 1.12	3.71 3.70 3.47 3.94
LCD002434 DUP Target Range – Lower Bound Upper Bound		0.01 0.02 <0.01 0.02	0.82 0.81 0.76 0.87	2.8 2.8 2.5 3.1	20 20 <10 30	0.62 0.61 0.53 0.70	0.05 0.05 0.04 0.06	0.02 0.02 <0.01 0.03	<0.02 <0.02 <0.02 0.04	31.4 33.1 30.6 33.9	0.7 0.7 0.6 0.8	17 16 15 18	1.89 1.90 1.75 2.04	11.0 11.6 10.7 11.9	0.75 0.73 0.69 0.79	2.37 2.38 2.21 2.54
LCD002449 DUP Target Range – Lower Bound Upper Bound																
LCD002464 DUP Target Range – Lower Bound Upper Bound		<0.01 <0.01 <0.01 0.02	0.11 0.11 0.09 0.13	0.7 0.5 0.4 0.8	20 20 <10 30	<0.05 <0.05 <0.05 0.10	0.03 0.03 0.02 0.04	0.03 0.03 0.02 0.04	<0.02 <0.02 <0.02 0.04	1.67 1.80 1.64 1.83	0.2 0.3 <0.1 0.4	7 6 5 8	0.05 0.05 <0.05 0.10	2.5 2.5 2.2 2.8	0.45 0.45 0.42 0.48	0.49 0.52 0.43 0.58
LCD002469 DUP Target Range – Lower Bound Upper Bound																
LCD002490 DUP Target Range – Lower Bound Upper Bound		0.01 0.02 <0.01 0.02	1.15 1.15 1.08 1.22	2.3 2.2 1.9 2.6	20 20 <10 30	0.43 0.43 0.36 0.50	0.04 0.07 0.04 0.07	0.02 0.02 <0.01 0.03	<0.02 <0.02 <0.02 0.04	23.7 25.5 23.4 25.8	1.0 1.0 0.9 1.2	6 6 5 7	1.58 1.62 1.47 1.73	3.3 3.3 3.0 3.6	1.60 1.62 1.52 1.70	2.23 2.23 2.07 2.39



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
LCD002390 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002410 DUP Target Range – Lower Bound Upper Bound																
LCD002418 DUP Target Range – Lower Bound Upper Bound		0.07 0.07 <0.05 0.10	1.5 1.5 1.3 1.7	<0.005 0.006 <0.005 0.010	0.62 0.61 0.57 0.66	12.8 13.1 11.8 14.1	2.3 2.8 2.2 2.9	0.05 0.05 0.04 0.06	83 83 74 92	0.53 1.42 0.88 1.07	0.01 0.01 <0.01 0.02	1.9 2.0 1.8 2.1	2.5 8.4 5.0 5.9	100 100 90 120	1.5 6.8 3.4 4.9	24.1 23.5 22.5 25.1
LCD002434 DUP Target Range – Lower Bound Upper Bound		0.06 0.06 <0.05 0.10	2.0 1.9 1.8 2.1	0.007 0.008 <0.005 0.010	0.35 0.35 0.32 0.38	17.2 17.8 16.1 18.9	2.6 2.7 2.3 3.0	0.02 0.02 <0.01 0.03	64 62 55 71	0.52 0.68 0.52 0.68	0.01 0.01 <0.01 0.02	2.4 2.4 2.2 2.6	2.6 3.7 2.8 3.5	80 80 70 90	3.4 4.3 3.2 4.5	14.0 14.5 13.4 15.1
LCD002449 DUP Target Range – Lower Bound Upper Bound																
LCD002464 DUP Target Range – Lower Bound Upper Bound		<0.05 <0.05 <0.05 0.10	0.1 0.1 <0.1 0.2	<0.005 <0.005 <0.005 0.010	0.02 0.02 <0.01 0.03	1.0 1.0 <0.5 1.6	0.8 0.8 0.6 1.0	0.04 0.04 0.03 0.05	43 43 36 50	1.03 0.80 0.82 1.01	0.01 0.01 <0.01 0.02	0.4 0.5 0.3 0.6	2.0 1.9 1.7 2.2	40 40 30 50	1.4 1.5 0.9 2.0	0.8 0.8 0.7 0.9
LCD002469 DUP Target Range – Lower Bound Upper Bound																
LCD002490 DUP Target Range – Lower Bound Upper Bound		0.06 0.06 <0.05 0.10	1.4 1.4 1.2 1.6	<0.005 0.005 <0.005 0.010	0.50 0.51 0.47 0.54	13.3 13.6 12.3 14.6	1.7 1.5 1.3 1.9	0.03 0.03 0.02 0.04	62 60 53 69	0.52 0.62 0.49 0.65	0.01 0.01 <0.01 0.02	1.5 1.5 1.3 1.7	2.3 2.8 2.2 2.9	50 60 40 70	1.7 2.3 1.4 2.6	16.1 16.4 15.3 17.2



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Sample Description	Method Analyte Units LOD	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1
LCD002390 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
LCD002410 DUP Target Range - Lower Bound Upper Bound																
LCD002418 DUP Target Range - Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.51 1.10 0.69 0.92	0.7 0.8 0.6 0.9	<1 <1 <1 2	1.3 1.5 1.1 1.7	7.7 7.9 7.2 8.4	0.28 0.30 0.23 0.35	<0.05 <0.05 <0.05 0.10	6.36 6.47 6.08 6.75	0.036 0.035 0.029 0.042	0.09 0.09 0.06 0.12	1.3 1.3 1.1 1.5	4 4 3 5	1.7 1.7 1.5 1.9
LCD002434 DUP Target Range - Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.57 0.63 0.51 0.70	0.8 0.9 0.7 1.0	<1 <1 <1 2	0.9 0.9 0.7 1.1	13.6 14.1 13.0 14.7	0.26 0.23 0.18 0.31	<0.05 <0.05 <0.05 0.10	8.42 8.24 7.90 8.76	0.027 0.026 0.020 0.033	0.06 0.06 0.04 0.08	1.9 1.8 1.7 2.0	3 3 2 4	0.8 0.8 0.6 1.0
LCD002449 DUP Target Range - Lower Bound Upper Bound																
LCD002464 DUP Target Range - Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	0.02 0.02 <0.01 0.03	0.12 0.40 0.19 0.33	0.1 0.2 <0.1 0.2	<1 <1 <1 2	<0.2 <0.2 <0.2 0.4	1.8 1.8 1.5 2.1	<0.05 <0.05 <0.05 0.10	<0.05 <0.05 <0.05 0.10	0.29 0.29 0.27 0.31	0.007 0.007 <0.005 0.010	<0.02 <0.02 <0.02 0.04	0.1 0.1 <0.1 0.2	1 2 <1 2	0.1 0.1 <0.1 0.2
LCD002469 DUP Target Range - Lower Bound Upper Bound																
LCD002490 DUP Target Range - Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.69 0.76 0.62 0.83	0.5 0.5 0.4 0.6	<1 <1 <1 2	0.6 0.6 0.4 0.8	10.0 10.2 9.4 10.8	0.15 0.15 0.09 0.21	<0.05 <0.05 <0.05 0.10	5.40 5.60 5.22 5.79	0.029 0.029 0.023 0.035	0.07 0.06 0.04 0.09	0.9 0.9 0.8 1.0	3 3 2 4	2.1 2.2 1.9 2.4



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Sample Description	Method Analyte Units LOD	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
LCD002390 DUP Target Range – Lower Bound Upper Bound	DUPLICATES															
LCD002410 DUP Target Range – Lower Bound Upper Bound																
LCD002418 DUP Target Range – Lower Bound Upper Bound		5.0 5.2 4.7 5.5	5 10 5 10	48.5 48.5 45.6 51.4	0.84 0.87 0.74 0.97	0.49 0.51 0.43 0.57	0.26 0.24 0.20 0.30	1.04 1.02 0.90 1.16	0.18 0.17 0.15 0.20	0.08 0.08 0.06 0.10	9.3 9.6 8.6 10.3	2.78 2.84 2.57 3.05	1.56 1.61 1.44 1.73	0.14 0.14 0.12 0.16	0.08 0.07 0.06 0.09	0.49 0.48 0.42 0.55
LCD002434 DUP Target Range – Lower Bound Upper Bound		8.1 8.2 7.6 8.7	6 7 4 9	64.2 64.6 60.7 68.1	1.64 1.26 1.29 1.61	0.79 0.78 0.70 0.87	0.27 0.29 0.23 0.33	1.49 1.45 1.31 1.63	0.27 0.27 0.24 0.30	0.12 0.11 0.10 0.13	13.5 13.9 12.6 14.8	3.80 3.87 3.52 4.15	2.09 2.16 1.94 2.31	0.22 0.22 0.19 0.25	0.11 0.12 0.10 0.13	0.78 0.77 0.69 0.86
LCD002449 DUP Target Range – Lower Bound Upper Bound																
LCD002464 DUP Target Range – Lower Bound Upper Bound		0.4 0.4 0.3 0.5	3 3 <2 4	2.0 2.1 1.4 2.7	0.07 0.08 <0.05 0.10	0.04 0.04 <0.03 0.06	0.03 0.03 <0.03 0.06	0.10 0.09 <0.05 0.10	0.01 0.01 <0.01 0.02	0.01 <0.01 <0.01 0.02	0.6 0.7 0.5 0.8	0.18 0.20 0.15 0.23	0.11 0.11 0.07 0.15	0.01 0.01 <0.01 0.02	0.01 0.01 <0.01 0.02	0.03 0.03 <0.03 0.06
LCD002469 DUP Target Range – Lower Bound Upper Bound																
LCD002490 DUP Target Range – Lower Bound Upper Bound		3.1 3.2 2.9 3.4	8 5 4 9	47.2 47.6 44.5 50.3	0.57 0.58 0.48 0.67	0.34 0.35 0.29 0.40	0.25 0.25 0.20 0.30	0.81 0.86 0.72 0.95	0.11 0.11 0.09 0.13	0.06 0.05 0.04 0.07	9.0 9.2 8.3 9.9	2.66 2.78 2.49 2.95	1.50 1.54 1.38 1.66	0.10 0.11 0.09 0.12	0.07 0.06 0.05 0.08	0.36 0.36 0.30 0.42



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Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005
LCD002390 DUP Target Range – Lower Bound Upper Bound		0.021 0.022 0.015 0.028
LCD002410 DUP Target Range – Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010
LCD002418 DUP Target Range – Lower Bound Upper Bound		
LCD002434 DUP Target Range – Lower Bound Upper Bound		
LCD002449 DUP Target Range – Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010
LCD002464 DUP Target Range – Lower Bound Upper Bound		
LCD002469 DUP Target Range – Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010
LCD002490 DUP Target Range – Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010



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Sample Description	Method Analyte Units LOD	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05
LCD002528 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002536 DUP Target Range – Lower Bound Upper Bound		0.01 0.02 <0.01 0.02	0.99 0.98 0.93 1.04	3.3 3.4 3.0 3.7	10 20 <10 20	0.32 0.32 0.25 0.39	0.04 0.03 0.02 0.05	0.01 0.01 <0.01 0.02	<0.02 <0.02 <0.02 0.04	37.7 37.1 35.5 39.3	0.7 0.7 0.6 0.8	6 5 4 7	0.65 0.63 0.56 0.72	3.2 3.4 3.0 3.6	0.57 0.57 0.53 0.61	1.77 1.71 1.60 1.88
LCD002549 DUP Target Range – Lower Bound Upper Bound																
LCD002569 DUP Target Range – Lower Bound Upper Bound																
LCD002572 DUP Target Range – Lower Bound Upper Bound		0.02 0.01 <0.01 0.02	2.09 2.11 1.99 2.22	7.0 6.7 6.3 7.4	20 20 <10 30	0.38 0.38 0.31 0.45	0.06 0.05 0.04 0.07	0.02 0.02 <0.01 0.03	<0.02 <0.02 <0.02 0.04	39.4 37.4 36.5 40.3	0.9 0.9 0.8 1.0	9 9 8 10	1.83 1.78 1.66 1.95	2.2 2.2 1.9 2.5	0.79 0.78 0.74 0.83	3.26 3.12 2.98 3.40
LCD002420 LCD002420 PREP DUP		PREP DUPLICATES														
LCD002477 LCD002477 PREP DUP		<0.01 0.01	1.06 1.00	2.5 1.7	20 20	0.44 0.41	0.04 0.04	0.02 0.02	<0.02 <0.02	21.4 20.5	0.9 0.9	7 6	1.68 1.49	2.7 3.1	1.40 1.26	2.31 2.08
LCD002532 LCD002532 PREP DUP		0.28 0.02	1.73 1.68	4.0 3.9	20 20	0.46 0.45	0.04 0.04	0.02 0.02	<0.02 <0.02	34.9 33.5	1.3 1.2	8 8	2.47 2.36	3.0 3.4	1.56 1.55	3.10 3.02



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Sample Description	Method Analyte Units LOD	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1
LCD002528 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002536 DUP Target Range – Lower Bound Upper Bound		<0.05 <0.05 <0.05 0.10	1.4 1.2 1.1 1.5	0.005 <0.005 <0.005 0.010	0.46 0.46 0.43 0.49	20.5 20.1 18.8 21.8	4.7 4.5 4.2 5.0	0.04 0.04 0.03 0.05	50 49 42 57	0.42 0.46 0.37 0.51	0.01 0.01 <0.01 0.02	1.7 1.6 1.5 1.8	2.0 2.3 1.8 2.5	70 70 60 80	1.0 1.3 0.6 1.7	17.4 17.6 16.5 18.5
LCD002549 DUP Target Range – Lower Bound Upper Bound																
LCD002569 DUP Target Range – Lower Bound Upper Bound																
LCD002572 DUP Target Range – Lower Bound Upper Bound		0.05 0.05 <0.05 0.10	2.1 2.3 2.0 2.4	<0.005 0.005 <0.005 0.010	0.91 0.92 0.86 0.97	21.6 20.4 19.5 22.6	2.8 2.8 2.5 3.1	0.03 0.03 0.02 0.04	64 64 56 72	0.50 0.48 0.42 0.56	0.02 0.03 <0.01 0.04	2.4 2.3 2.1 2.6	3.4 3.2 2.9 3.7	80 80 70 90	1.1 1.1 <0.5 1.7	27.0 26.2 25.2 28.0
LCD002420 LCD002420 PREP DUP		PREP DUPLICATES														
LCD002477 LCD002477 PREP DUP		0.05 <0.05	1.3 1.2	<0.005 0.005	0.46 0.43	12.0 11.0	2.3 2.3	0.03 0.03	60 52	0.52 0.56	0.01 0.01	1.5 1.4	2.3 2.1	70 70	1.5 1.4	15.2 13.4
LCD002532 LCD002532 PREP DUP		0.05 0.05	1.6 1.5	<0.005 0.005	0.76 0.74	18.5 17.7	2.6 2.7	0.05 0.04	78 77	0.68 0.71	0.02 0.02	2.0 1.9	3.1 3.0	70 60	1.4 1.2	25.7 24.0



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Sample Description	Method Analyte Units LOD	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1
LCD002528 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002536 DUP Target Range – Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.45 0.48 0.38 0.55	0.9 0.9 0.8 1.0	<1 <1 <1 2	0.7 0.6 0.4 0.9	16.4 16.4 15.4 17.4	0.17 0.18 0.12 0.23	<0.05 <0.05 <0.05 0.10	7.02 6.72 6.52 7.22	0.030 0.030 0.024 0.037	0.05 0.05 0.03 0.07	1.4 1.2 1.1 1.5	3 3 2 4	0.4 0.5 0.3 0.6
LCD002549 DUP Target Range – Lower Bound Upper Bound																
LCD002569 DUP Target Range – Lower Bound Upper Bound																
LCD002572 DUP Target Range – Lower Bound Upper Bound		<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.56 0.53 0.45 0.64	0.8 0.8 0.7 0.9	<1 <1 <1 2	0.6 0.5 0.3 0.8	22.5 22.2 21.0 23.7	0.21 0.21 0.15 0.27	<0.05 <0.05 <0.05 0.10	8.50 8.00 7.83 8.67	0.050 0.050 0.043 0.058	0.09 0.10 0.07 0.12	0.8 0.8 0.7 0.9	2 2 <1 3	1.1 1.0 0.9 1.2
LCD002420 LCD002420 PREP DUP		PREP DUPLICATES														
LCD002477 LCD002477 PREP DUP		<0.002 <0.002	0.01 0.01	0.46 0.46	0.7 0.7	<1 <1	1.8 1.8	11.9 11.7	0.37 0.37	<0.05 <0.05	8.51 8.28	0.047 0.048	0.08 0.08	2.4 2.3	6 6	1.1 1.2
LCD002532 LCD002532 PREP DUP		<0.002 <0.002	<0.01 <0.01	0.66 1.00	0.6 0.5	<1 <1	0.7 0.6	8.9 8.0	0.17 0.18	<0.05 <0.05	5.14 5.11	0.024 0.024	0.06 0.06	1.3 1.3	3 3	1.7 1.6
		<0.002 <0.002	<0.01 <0.01	0.52 0.91	1.1 1.0	<1 <1	0.8 0.7	17.6 17.2	0.20 0.18	<0.05 <0.05	6.89 6.84	0.038 0.038	0.10 0.09	1.3 1.1	6 5	2.4 2.4



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
LCD002528 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
LCD002536 DUP Target Range – Lower Bound Upper Bound		2.5 2.4 2.2 2.7	5 5 3 7	44.7 40.7 40.1 45.3	0.47 0.44 0.37 0.54	0.28 0.26 0.22 0.32	0.31 0.30 0.25 0.36	0.92 0.87 0.78 1.01	0.10 0.09 0.08 0.11	0.06 0.06 0.05 0.07	12.6 12.3 11.4 13.5	3.71 3.61 3.36 3.96	1.77 1.69 1.57 1.89	0.10 0.11 0.09 0.12	0.04 0.04 0.03 0.05	0.35 0.32 0.28 0.39
LCD002549 DUP Target Range – Lower Bound Upper Bound																
LCD002569 DUP Target Range – Lower Bound Upper Bound																
LCD002572 DUP Target Range – Lower Bound Upper Bound		2.2 2.5 2.1 2.6	4 4 <2 6	79.8 83.3 77.0 86.1	0.64 0.62 0.53 0.73	0.25 0.26 0.21 0.30	0.43 0.42 0.36 0.49	1.29 1.17 1.09 1.37	0.08 0.08 0.06 0.10	0.05 0.06 0.04 0.07	13.9 13.4 12.5 14.8	4.25 4.07 3.82 4.50	2.10 2.00 1.87 2.23	0.12 0.12 0.10 0.14	0.04 0.04 0.03 0.05	0.30 0.32 0.26 0.36
LCD002420 LCD002420 PREP DUP		PREP DUPLICATES														
LCD002477 LCD002477 PREP DUP		5.4 5.4 3.9 3.6	5 5 6 5	53.8 55.3 43.9 37.5	1.39 0.94 0.67 0.67	0.52 0.53 0.39 0.39	0.30 0.29 0.25 0.23	1.14 1.17 0.91 0.84	0.19 0.19 0.14 0.13	0.08 0.08 0.07 0.06	11.7 11.6 8.1 7.8	3.50 3.38 2.38 2.24	1.77 1.82 1.37 1.28	0.16 0.17 0.12 0.20	0.08 0.08 0.06 0.06	0.51 0.53 0.42 0.39
LCD002532 LCD002532 PREP DUP		2.3 2.2	7 6	53.9 52.6	0.42 0.44	0.23 0.23	0.36 0.37	1.03 1.75	0.08 0.10	0.05 0.05	12.9 12.6	3.64 3.65	1.87 1.92	0.12 0.11	0.04 0.04	0.29 0.27



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QC CERTIFICATE OF ANALYSIS MI24322690

Sample Description	Method Analyte Units LOD	Au-AA23 Au ppm 0.005
LCD002528 DUP Target Range – Lower Bound Upper Bound	<0.005 <0.005 <0.005 0.010	DUPLICATES
LCD002536 DUP Target Range – Lower Bound Upper Bound		
LCD002549 DUP Target Range – Lower Bound Upper Bound	<0.005 <0.005 <0.005 0.010	
LCD002569 DUP Target Range – Lower Bound Upper Bound	<0.005 <0.005 <0.005 0.010	
LCD002572 DUP Target Range – Lower Bound Upper Bound		
LCD002420 LCD002420 PREP DUP	<0.005 <0.005	PREP DUPLICATES
LCD002477 LCD002477 PREP DUP	<0.005 <0.005	
LCD002532 LCD002532 PREP DUP	<0.005 <0.005	



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QC CERTIFICATE OF ANALYSIS MI24322690

	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
	REEs may not be totally soluble in this method. ME-MS61r			
	LABORATORY ADDRESSES			
	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23			
	Processed at ALS Mount Isa located at Unit 4, 16 Enterprise Rd, Mount Isa, QLD, Australia.			
Applies to Method:	BAG-01	CRU-32c	CRU-QC	LEV-01
	LEV-02	LOG-22	LOG-24	PUL-32m
	PUL-QC	RAD-01	SPL-22Y	WEI-21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61r			