



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 818.

To: BLUESTONE MINES TASMANIA JOINT VENTURE PTY LTD

PO BOX 20

ZEEHAN TAS 7469

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Plus Appendix Pages

Finalized Date: 16-DEC-2024

Account: BLUMINJV

## QC CERTIFICATE BU24320319

Project: EDGL\_17

P.O. No.: S 258250

This report is for 93 samples of Drill Core submitted to our lab in Burnie, TAS, Australia on 11-NOV-2024.

The following have access to data associated with this certificate:

ESTHER LITTLE

DECLAN RADFORD

BEN RIDGERS

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL-QC	Pulverizing QC Test
SPL-21	Split sample – riffle splitter
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-21	Crush entire sample
PUL-23	Pulv Sample – Split/Retain
BAG-01	Bulk Master for Storage
BAG-21	Raw Sample in a new bag

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-XRF15b	Various elements in ores by fusion XRF	XRF
ME-MS61r	4A multi-element ICP-MS + REE	

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 BU24320319

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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	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																
AMIS0448																
AMIS0448																
Target Range – Lower Bound																
Upper Bound																
CT-22																
CT-22																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		4.80	11.50	0.14	1.8	0.880	1.63	23.6	27.2	0.94	746	1095	1.09	14.4	7500	810
Target Range – Lower Bound		4.42	10.75	<0.05	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.25	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
GBM321-8		5.41	19.20	0.14	3.6	0.069	2.07	53.7	11.0	1.82	789	62.6	2.17	10.4	2170	990
GBM321-8		5.56	19.45	0.22	3.7	0.076	2.15	54.8	11.5	1.82	799	66.2	2.25	10.7	2260	970
Target Range – Lower Bound		4.98	18.65	<0.05	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	0.24	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	1100
GPP-14																
GPP-14																
Target Range – Lower Bound																
Upper Bound																
ISA-24																
ISA-24																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		3.37	20.0	0.12	1.8	0.116	2.84	50.7	61.6	0.73	8080	24.1	2.00	15.1	948	880
MRCA-21		3.26	19.45	0.25	1.8	0.119	2.84	50.0	59.9	0.71	7990	24.0	2.03	14.4	939	870
Target Range – Lower Bound		3.05	18.75	<0.05	1.5	0.103	2.58	49.0	54.7	0.65	7330	22.5	1.79	12.9	849	770
Upper Bound		3.75	23.0	0.23	2.1	0.137	3.18	61.0	67.3	0.82	8970	27.7	2.21	15.9	1040	970
NCSDC35011																
NCSDC35011																
NCSDC35011																
NCSDC35011																
Target Range – Lower Bound																
Upper Bound																



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## QC CERTIFICATE OF ANALYSIS BU24320319

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
		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															
AMIS0448															
AMIS0448															
Target Range – Lower Bound															
Upper Bound															
CT-22															
CT-22															
Target Range – Lower Bound															
Upper Bound															
EMOG-17		7360	106.5	0.308	3.08	778	7.9	6	2.5	200	0.88	1.14	11.00	0.314	3.3
Target Range – Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.285	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.359	3.7
GBM321-8		2050	163.5	<0.002	0.39	1.62	18.1	<1	2.9	284	0.69	<0.05	17.25	0.655	2.1
GBM321-8		2040	176.0	<0.002	0.38	1.60	19.3	<1	3.0	290	0.76	0.05	18.10	0.663	2.2
Target Range – Lower Bound		1845	153.0	<0.002	0.31	1.40	16.7	<1	2.7	258	0.64	<0.05	16.00	0.591	2.0
Upper Bound		2250	187.0	0.005	0.41	2.01	20.7	2	3.9	316	0.92	0.15	19.55	0.733	2.6
GPP-14															
GPP-14															
Target Range – Lower Bound															
Upper Bound															
ISA-24															
ISA-24															
Target Range – Lower Bound															
Upper Bound															
MRCA-21		941	165.5	0.014	0.43	26.0	9.1	1	4.7	174.0	1.08	0.13	15.45	0.366	3.9
MRCA-21		887	159.5	0.011	0.44	26.4	8.9	1	4.7	171.0	1.10	0.14	14.65	0.366	4.2
Target Range – Lower Bound		816	154.5	0.008	0.38	22.8	8.0	<1	4.3	156.5	0.98	<0.05	13.95	0.328	3.7
Upper Bound		998	189.5	0.018	0.49	31.0	10.0	3	5.7	191.5	1.30	0.23	17.05	0.412	4.8
NCSDC35011															
NCSDC35011															
NCSDC35011															
NCSDC35011															
Target Range – Lower Bound															
Upper Bound															



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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
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	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
STANDARDS																
AMIS0448																
AMIS0448																
Target Range – Lower Bound																
Upper Bound																
CT-22																
CT-22																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		72	3.6	15.6	7430	62.2	2.75	1.50	0.83	3.11	0.57	0.22	20.1	5.38	3.69	0.48
Target Range – Lower Bound		67	3.3	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
Upper Bound		84	4.7	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
GBM321-8		139	3.1	35.9	1055	136.0	6.32	3.49	1.72	6.83	1.26	0.47	41.6	12.05	8.12	1.06
GBM321-8		138	3.0	38.5	1075	134.5	6.49	3.55	1.83	7.24	1.27	0.49	47.0	12.75	8.07	1.07
Target Range – Lower Bound		123	2.9	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
Upper Bound		153	4.1	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
GPP-14																
GPP-14																
Target Range – Lower Bound																
Upper Bound																
ISA-24																
ISA-24																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		62	11.6	17.1	828	58.7	3.85	1.50	1.54	6.09	0.63	0.18	39.2	11.05	7.66	0.82
MRCA-21		62	10.9	17.4	832	57.9	3.82	1.39	1.50	5.88	0.60	0.18	41.8	11.45	7.46	0.77
Target Range – Lower Bound		57	9.3	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
Upper Bound		71	12.9	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
NCSDC35011																
NCSDC35011																
NCSDC35011																
NCSDC35011																
Target Range – Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
STANDARDS			
AMIS0448			
AMIS0448			
Target Range – Lower Bound			
Upper Bound			
CT-22			
CT-22			
Target Range – Lower Bound			
Upper Bound			
EMOG-17		0.23	1.41
Target Range – Lower Bound		0.19	1.30
Upper Bound		0.29	1.82
GBM321-8		0.51	3.13
GBM321-8		0.55	3.29
Target Range – Lower Bound		0.46	2.83
Upper Bound		0.64	3.91
GPP-14			
GPP-14			
Target Range – Lower Bound			
Upper Bound			
ISA-24			
ISA-24			
Target Range – Lower Bound			
Upper Bound			
MRCA-21		0.20	1.22
MRCA-21		0.19	1.17
Target Range – Lower Bound		0.15	1.02
Upper Bound		0.23	1.45
NCSDC35011			
NCSDC35011			
NCSDC35011			
NCSDC35011			
Target Range – Lower Bound			
Upper Bound			

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Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	
		Au	Sn	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
		0.001	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
STANDARDS																	
NCSDC35012			3.88														
NCSDC35012			3.97														
NCSDC35012			4.08														
NCSDC35012			3.99														
Target Range – Lower Bound			3.78														
Upper Bound			4.18														
OREAS 242		8.72															
OREAS 242		8.83															
Target Range – Lower Bound		8.15															
Upper Bound		9.19															
OREAS 507				1.30	7.61	45.9	1100	2.45	1.96	1.82	0.70	73.7	7.7	46	11.45	6310	
OREAS 507				1.29	6.77	46.8	1080	2.42	1.89	1.68	0.68	65.3	7.9	47	10.20	6260	
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	
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	
OREAS 681		0.052															
OREAS 681		0.051															
Target Range – Lower Bound		0.047															
Upper Bound		0.055															
BLANKS																	
BLANK		0.002															
BLANK		0.003															
BLANK		0.002															
BLANK		<0.001															
Target Range – Lower Bound		<0.001															
Upper Bound		0.002															
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		
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		
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		
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		
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		
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
Target Range – Lower Bound		<0.005															
Upper Bound		0.010															



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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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	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															
NCSDC35012															
NCSDC35012															
NCSDC35012															
NCSDC35012															
Target Range - Lower Bound															
Upper Bound															
OREAS 242															
OREAS 242															
Target Range - Lower Bound															
Upper Bound															
OREAS 507		3.13	19.05	0.12	2.0	0.159	3.12	35.6	51.6	0.70	372	113.5	2.12	12.9	15.7
OREAS 507		2.99	18.90	0.12	1.9	0.147	3.07	30.3	51.0	0.67	347	114.0	2.09	12.8	16.0
Target Range - Lower Bound		2.81	18.20	0.07	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3
Upper Bound		3.45	22.4	0.31	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9
OREAS 681															
OREAS 681															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK															
BLANK															
BLANK															
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
BLANK		<0.01	0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	7	<0.05	0.01	<0.1	<0.2
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.07	0.01	<0.1	0.3
BLANK		<0.01	0.06	0.06	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
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
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
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															





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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
		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															
NCSDC35012															
NCSDC35012															
NCSDC35012															
NCSDC35012															
Target Range - Lower Bound															
Upper Bound															
OREAS 242															
OREAS 242															
Target Range - Lower Bound															
Upper Bound															
OREAS 507		41.0	165.0	0.085	0.72	5.18	8.6	4	4.8	223	1.02	0.64	14.40	0.351	3.6
OREAS 507		35.6	148.5	0.081	0.74	5.07	7.8	4	4.8	207	1.05	0.69	12.50	0.359	3.7
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	4.6
OREAS 681															
OREAS 681															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK		<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
BLANK		<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
BLANK		<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
BLANK		<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
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	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	5	0.4	0.4	0.10	0.10	0.02	0.010	0.2
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	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
STANDARDS																
NCSDC35012																
NCSDC35012																
NCSDC35012																
NCSDC35012																
Target Range – Lower Bound																
Upper Bound																
OREAS 242																
OREAS 242																
Target Range – Lower Bound																
Upper Bound																
OREAS 507		63	9.3	15.7	167	64.4	3.56	1.38	1.31	5.32	0.59	0.18	32.9	8.93	6.55	0.73
OREAS 507		66	8.3	14.2	161	62.5	3.23	1.29	1.11	5.08	0.54	0.17	29.2	7.65	5.97	0.67
Target Range – Lower Bound		58	7.8	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
Upper Bound		73	10.8	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
OREAS 681																
OREAS 681																
Target Range – Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<1	<0.1	<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
BLANK		<1	<0.1	<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
BLANK		<1	<0.1	<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
BLANK		<1	<0.1	<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
Target Range – Lower Bound		<1	<0.1	<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
Upper Bound		2	0.2	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
BLANK																
BLANK																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	ME-MS61r	
		Tm	Yb
		ppm	ppm
		0.01	0.03
STANDARDS			
NCSDC35012			
NCSDC35012			
NCSDC35012			
NCSDC35012			
Target Range – Lower Bound			
Upper Bound			
OREAS 242			
OREAS 242			
Target Range – Lower Bound			
Upper Bound			
OREAS 507		0.19	1.12
OREAS 507		0.18	1.02
Target Range – Lower Bound		0.15	1.00
Upper Bound		0.23	1.42
OREAS 681			
OREAS 681			
Target Range – Lower Bound			
Upper Bound			
BLANKS			
BLANK			
BLANK			
BLANK			
BLANK			
Target Range – Lower Bound			
Upper Bound			
BLANK		<0.01	<0.03
BLANK		<0.01	<0.03
BLANK		<0.01	<0.03
BLANK		<0.01	<0.03
Target Range – Lower Bound		<0.01	<0.03
Upper Bound		0.02	0.06
BLANK			
BLANK			
BLANK			
BLANK			
Target Range – Lower Bound			
Upper Bound			



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Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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
		Au	Sn	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
		0.001	0.005	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		0.001														
DUP		0.001														
Target Range – Lower Bound		<0.001														
Upper Bound		0.002														
RDD277068																
DUP		<0.005														
Target Range – Lower Bound		<0.005														
Upper Bound		0.010														
RDD277078																
DUP		0.001														
Target Range – Lower Bound		<0.001														
Upper Bound		0.002														
RDD277089																
DUP		0.002														
Target Range – Lower Bound		<0.001														
Upper Bound		0.003														
RDD277105																
DUP		0.19														
Target Range – Lower Bound		0.18														
Upper Bound		0.21														
RDD277107																
DUP		<0.005														
Target Range – Lower Bound		<0.005														
Upper Bound		0.010														
RDD277110																
DUP		0.002														
Target Range – Lower Bound		<0.001														
Upper Bound		0.002														
RDD277113																
DUP		<0.005														
Target Range – Lower Bound		<0.005														
Upper Bound		0.010														



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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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	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														
RDD277068 DUP Target Range – Lower Bound Upper Bound		9.09 8.96 8.56 9.49	20.3 20.2 19.20 21.3	0.12 0.11 0.06 0.17	4.4 4.7 4.2 4.9	0.175 0.178 0.163 0.190	0.15 0.15 0.13 0.17	22.9 22.4 21.0 24.3	57.1 55.9 53.5 59.5	2.21 2.17 2.07 2.31	1720 1700 1620 1800	0.28 0.31 0.23 0.36	1.91 1.87 1.79 1.99	23.8 23.4 22.3 24.9	96.9 96.4 91.6 101.5	1560 1530 1460 1630
RDD277078 DUP Target Range – Lower Bound Upper Bound																
RDD277089 DUP Target Range – Lower Bound Upper Bound																
RDD277105 DUP Target Range – Lower Bound Upper Bound		15.95 15.85 15.10 16.70	18.30 17.40 16.90 18.80	0.24 0.17 0.14 0.27	3.0 3.2 2.8 3.4	2.94 2.82 2.73 3.03	0.12 0.12 0.10 0.14	13.4 12.9 12.0 14.3	51.1 50.7 48.2 53.6	4.47 4.47 4.24 4.70	10950 11000 10400 11550	0.43 0.36 0.33 0.46	0.06 0.05 0.04 0.07	19.6 19.3 18.4 20.5	107.0 107.0 101.5 112.5	1090 1090 1030 1150
RDD277107 DUP Target Range – Lower Bound Upper Bound		7.75 7.84 7.40 8.19	16.25 16.60 15.55 17.30	0.20 0.17 0.12 0.25	3.6 3.7 3.4 3.9	0.164 0.172 0.155 0.181	0.16 0.16 0.14 0.18	15.6 15.5 14.3 16.8	51.0 51.6 48.5 54.1	4.17 4.21 3.97 4.41	1710 1705 1615 1800	0.39 0.40 0.33 0.46	1.12 1.13 1.06 1.19	16.4 16.8 15.7 17.5	112.0 111.0 105.5 117.5	940 950 890 1000
RDD277110 DUP Target Range – Lower Bound Upper Bound																
RDD277113 DUP Target Range – Lower Bound Upper Bound																



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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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	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	0.02	0.1
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD277068 DUP Target Range – Lower Bound Upper Bound		86.3 84.4 80.6 90.1	6.8 6.7 6.3 7.2	<0.002 <0.002 <0.002 0.004	0.01 0.01 <0.01 0.02	3.01 3.01 2.73 3.29	38.2 36.5 35.4 39.3	<1 <1 <1 2	2.7 2.6 2.3 3.0	89.7 88.1 84.3 93.5	1.42 1.39 1.28 1.53	<0.05 <0.05 <0.05 0.10	3.01 2.98 2.84 3.15	1.700 1.680 1.600 1.780	0.18 0.18 0.15 0.21	1.9 1.8 1.7 2.0
RDD277078 DUP Target Range – Lower Bound Upper Bound																
RDD277089 DUP Target Range – Lower Bound Upper Bound																
RDD277105 DUP Target Range – Lower Bound Upper Bound		8.9 8.7 7.9 9.7	12.8 12.5 11.9 13.4	<0.002 <0.002 <0.002 0.004	0.02 0.02 <0.01 0.03	6.38 6.27 5.80 6.85	31.7 31.4 29.9 33.2	<1 <1 <1 2	22.2 22.1 20.8 23.5	23.7 23.0 22.0 24.7	1.17 1.15 1.05 1.27	<0.05 <0.05 <0.05 0.10	1.95 1.93 1.83 2.05	1.415 1.415 1.340 1.490	0.15 0.13 0.11 0.17	0.9 0.9 0.8 1.0
RDD277107 DUP Target Range – Lower Bound Upper Bound		13.0 13.5 12.1 14.4	7.5 7.5 7.0 8.0	0.002 <0.002 <0.002 0.004	0.32 0.32 0.29 0.35	4.52 4.17 3.97 4.72	29.9 30.3 28.5 31.7	1 1 <1 2	4.3 4.4 3.9 4.8	145.5 148.5 139.5 154.5	1.02 1.03 0.92 1.13	<0.05 <0.05 <0.05 0.10	1.81 1.83 1.72 1.92	1.225 1.235 1.165 1.295	0.18 0.18 0.15 0.21	0.8 0.9 0.7 1.0
RDD277110 DUP Target Range – Lower Bound Upper Bound																
RDD277113 DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD277068 DUP Target Range – Lower Bound Upper Bound		279 274 262 291	4.3 4.3 3.9 4.7	32.8 32.1 30.7 34.2	577 563 540 601	174.0 167.5 161.5 180.0	6.34 6.32 5.81 6.85	3.30 3.15 2.95 3.50	2.28 2.26 2.07 2.47	6.88 6.89 6.32 7.45	1.24 1.24 1.14 1.34	0.38 0.38 0.34 0.42	29.7 29.7 27.4 32.0	6.91 6.97 6.39 7.49	6.88 6.89 6.34 7.43	1.10 1.08 1.00 1.18
RDD277078 DUP Target Range – Lower Bound Upper Bound																
RDD277089 DUP Target Range – Lower Bound Upper Bound																
RDD277105 DUP Target Range – Lower Bound Upper Bound		288 296 276 308	3.9 4.1 3.6 4.4	16.9 16.1 15.6 17.4	546 547 517 576	132.5 145.5 131.5 146.5	3.24 4.53 3.54 4.23	1.70 1.68 1.53 1.85	1.44 1.45 1.31 1.58	3.68 3.65 3.34 3.99	0.66 0.61 0.58 0.69	0.25 0.22 0.21 0.26	17.0 16.5 15.4 18.1	4.14 3.87 3.67 4.34	4.30 3.97 3.79 4.48	0.57 0.53 0.50 0.60
RDD277107 DUP Target Range – Lower Bound Upper Bound		244 246 232 258	0.4 0.4 0.3 0.5	22.4 22.9 21.4 23.9	174 177 165 186	150.0 127.0 131.0 146.0	4.23 4.39 3.94 4.68	2.11 2.22 1.97 2.36	1.59 1.65 1.47 1.77	4.82 5.02 4.50 5.34	0.81 0.84 0.75 0.90	0.26 0.25 0.23 0.28	20.9 21.0 19.3 22.6	4.90 4.89 4.50 5.29	4.95 4.98 4.56 5.37	0.72 0.74 0.67 0.79
RDD277110 DUP Target Range – Lower Bound Upper Bound																
RDD277113 DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
RDD277068 DUP Target Range – Lower Bound Upper Bound		0.44 0.44 0.40 0.48	2.56 2.67 2.39 2.84
RDD277078 DUP Target Range – Lower Bound Upper Bound			
RDD277089 DUP Target Range – Lower Bound Upper Bound			
RDD277105 DUP Target Range – Lower Bound Upper Bound		0.26 0.24 0.22 0.28	1.54 1.52 1.39 1.67
RDD277107 DUP Target Range – Lower Bound Upper Bound		0.30 0.31 0.27 0.34	1.83 1.76 1.63 1.96
RDD277110 DUP Target Range – Lower Bound Upper Bound			
RDD277113 DUP Target Range – Lower Bound Upper Bound			





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## QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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
		Au	Sn	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
		0.001	0.005	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																
RDD277133			2.57													
DUP			2.55													
Target Range - Lower Bound			2.49													
Upper Bound			2.63													
RDD277143				0.01	6.60	20.8	260	1.50	0.06	6.79	<0.02	73.9	32.0	60	16.75	25.1
DUP				0.01	6.41	15.9	240	1.47	0.05	6.62	<0.02	69.7	28.9	60	15.60	23.4
Target Range - Lower Bound				<0.01	6.17	17.2	220	1.36	0.04	6.36	<0.02	68.2	28.8	56	15.30	23.2
Upper Bound				0.02	6.84	19.5	280	1.61	0.07	7.05	0.04	75.4	32.1	64	17.05	25.3
RDD279563			0.009													
DUP			0.013													
Target Range - Lower Bound			0.006													
Upper Bound			0.016													
ORIGINAL		0.017														
DUP		0.015														
Target Range - Lower Bound		0.014														
Upper Bound		0.018														
ORIGINAL		0.002														
DUP		0.004														
Target Range - Lower Bound		0.002														
Upper Bound		0.004														
ORIGINAL		0.002														
DUP		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.003														
ORIGINAL		0.002														
DUP		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.003														
ORIGINAL		0.002														
DUP		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.003														



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Project: EDGI\_17

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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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	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													
RDD277133 DUP Target Range – Lower Bound Upper Bound		DUPLICATES													
RDD277143 DUP Target Range – Lower Bound Upper Bound		7.24 7.00 6.75 7.49	18.50 17.35 17.00 18.85	0.12 0.12 0.06 0.18	4.3 4.1 3.9 4.5	0.277 0.257 0.249 0.285	0.99 0.96 0.92 1.03	34.1 32.6 31.2 35.5	45.3 44.1 42.3 47.1	1.99 1.94 1.86 2.07	3270 3170 3050 3390	0.57 0.60 0.51 0.66	2.21 2.13 2.05 2.29	25.9 24.1 23.7 26.4	54.4 50.2 49.5 55.1
		1290													1200
RDD279563 DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															



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## QC CERTIFICATE OF ANALYSIS BU24320319

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	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	0.02	0.1
RDD277133 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD277143 DUP Target Range – Lower Bound Upper Bound		4.2 4.6 3.7 5.1	140.5 133.0 130.0 143.5	<0.002 <0.002 <0.002 0.004	0.02 0.02 <0.01 0.03	2.71 2.63 2.42 2.92	29.1 27.5 26.8 29.8	<1 <1 <1 2	21.6 20.5 19.8 22.3	152.5 147.0 142.0 157.5	1.53 1.45 1.37 1.61	<0.05 <0.05 <0.05 0.10	4.72 4.57 4.40 4.89	1.365 1.325 1.275 1.415	2.14 2.03 1.91 2.26	1.0 1.0 0.9 1.2
RDD279563 DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	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
RDD277133 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD277143 DUP Target Range – Lower Bound Upper Bound		223 223 211 235	1.1 1.0 0.9 1.2	34.5 31.4 31.2 34.7	89 89 83 95	199.0 152.5 166.5 185.0	6.42 6.28 5.82 6.88	3.21 3.09 2.88 3.42	2.62 2.53 2.35 2.80	7.77 7.63 7.07 8.33	1.25 1.20 1.12 1.33	0.37 0.35 0.32 0.40	35.0 32.8 31.3 36.5	8.78 8.40 7.92 9.26	7.80 7.29 6.95 8.14	1.13 1.12 1.03 1.22
RDD279563 DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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## QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
RDD277133 DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
RDD277143 DUP Target Range – Lower Bound Upper Bound		0.44 0.42 0.39 0.47	2.53 2.42 2.26 2.69
RDD279563 DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL 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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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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	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													
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															



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QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																





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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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QC CERTIFICATE OF ANALYSIS BU24320319

Sample Description	Method Analyte Units LOD	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			



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**QC CERTIFICATE OF ANALYSIS BU24320319**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method:

REEs may not be totally soluble in this method.  
ME-MS61r

**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

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Perth located at 29 & 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 19 Integrity Way, Wangara, WA, Australia  
Au-ICP21

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 ME-XRF15b

Applies to Method:

Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.  
BAG-01 BAG-21  
LOG-22 LOG-24  
SPL-21 WEI-21

CRU-21

PUL-23

LEV-01

PUL-QC