



Australian Laboratory Services Pty. Ltd.
 32 Shand Street
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 Brisbane QLD 4053
 Phone: +61 7 3243 7222 Fax: +61 7 3243 7218
 www.alsglobal.com/geochemistry

To: **ABX GROUP LTD**
LEVEL 4
100 ALBERT ST
SOUTH MELBOURNE VIC 3205

Page: 1
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 30-APR-2025
 Account: AUSBAU

CERTIFICATE BR25119088

Project: ABx REE
 P.O. No.: SSF 292429
 This report is for 25 samples of Other submitted to our lab in Brisbane, QLD, Australia on 28-APR-2025.
 The following have access to data associated with this certificate:

MARK COOKSEY IAN LEVY ABX TASMANIAN LAB	PAUL GLOVER CONNOR MAGUIRE NATHAN TOWNS	DANIEL JEWELL JULIUS MARINELLI
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
TRA-21	Transfer sample
PUL-21	Pulverize entire sample
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	ME-MS81												
		Recvd Wt. kg	Pass75um %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm
		0.02	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01
TB00101		0.65	97.5	147.5	23.5	44	2.54	2.69	1.82	0.58	20.3	2.48	6.48	0.54	11.8	0.29
TB00102		0.65	99.2	213	20.5	32	2.81	2.79	1.90	0.71	19.2	2.59	5.06	0.59	10.7	0.32
TB00201		0.56	99.2	424	86.4	317	1.24	6.86	3.51	2.61	19.3	8.46	6.81	1.24	30.1	0.35
TB00202		0.87		186.0	24.1	94	0.89	2.03	1.19	0.61	20.1	2.23	3.96	0.34	6.3	0.19
TB00203		0.69		107.0	20.5	54	1.10	2.03	1.48	0.38	24.4	1.47	4.21	0.41	3.9	0.24
TB00204		0.37		72.7	29.8	56	1.12	1.82	1.11	0.33	21.9	1.74	3.89	0.37	4.8	0.23
TB00205		0.47		67.0	31.2	42	1.48	2.49	1.52	0.44	23.6	1.82	3.41	0.50	4.9	0.28
TB00206		0.70		139.5	63.1	63	3.59	5.89	3.93	1.45	27.0	6.33	4.30	1.35	18.4	0.53
TB00207		0.38		87.3	177.0	30	3.29	10.60	6.55	2.96	22.7	11.30	3.13	2.22	40.7	0.94
TB00208		1.26		80.2	219	36	4.19	21.6	13.00	5.78	26.1	21.5	3.70	4.33	65.5	1.88
TB00301		0.48		334	43.7	247	4.07	3.56	2.40	0.76	12.8	3.53	5.21	0.65	16.6	0.22
TB00302		0.94		371	57.4	133	7.71	5.05	3.23	0.99	15.8	4.76	6.04	1.02	23.8	0.36
TB00401		0.49		412	59.1	75	14.40	3.61	2.65	0.90	14.2	4.01	6.21	0.73	28.1	0.43
TB00402		0.74		348	64.6	87	17.95	4.15	2.49	0.95	13.6	4.63	5.52	0.77	30.1	0.30
TB00501		0.87		218	51.5	105	3.07	4.70	2.94	0.88	17.0	4.47	7.32	0.93	22.0	0.39
TB00502		0.69		198.0	56.6	107	2.91	4.59	2.77	0.87	16.0	4.43	6.68	0.87	23.7	0.36
TB00601		0.74		209	39.6	62	2.48	7.51	4.74	1.64	19.0	7.56	7.05	1.59	28.1	0.65
TB00602		0.40		590	396	12	8.45	27.3	19.20	5.04	17.0	23.5	5.52	5.57	53.8	2.77
TB00603		0.46		706	158.0	13	6.91	32.2	21.7	5.87	19.1	32.7	5.08	6.66	124.0	2.87
TB00701		0.78		157.5	32.8	58	1.99	3.66	2.47	0.83	19.4	3.45	5.65	0.77	15.6	0.31
TB00702		0.64		211	24.0	67	2.67	3.33	2.17	0.73	17.6	3.28	7.21	0.74	12.7	0.38
TB00703		0.76		523	24.7	39	3.99	3.63	2.44	0.86	18.7	3.54	5.77	0.80	13.1	0.37
TB00801		0.45		430	90.9	16	3.04	6.57	4.24	1.88	19.0	6.07	5.27	1.34	28.3	0.58
TB00802		0.60		806	1795	<5	5.64	117.0	62.4	32.3	17.8	130.5	4.25	20.9	660	7.34
TB00803		0.52		558	292	<5	3.84	48.8	30.5	9.60	18.8	48.3	4.44	9.74	160.0	3.39

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Page: 2 - B
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Project: ABX REE

CERTIFICATE OF ANALYSIS BR25119088

Sample Description	Method Analyte Units LOD	ME-MS81														
		Nb	Nd	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V
		ppm	%	ppm	ppm	ppm										
		0.05	0.1	0.02	0.2	0.5	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.01	0.05	5
TB00101		9.43	12.3	3.15	27.4	26.1	2.87	1.8	21.3	0.8	0.43	8.70	0.70	0.26	1.56	1095
TB00102		7.73	11.6	2.86	33.2	34.5	2.69	2.0	40.7	0.7	0.45	6.26	0.53	0.30	1.17	602
TB00201		37.4	36.3	8.48	15.4	27.6	9.33	2.7	111.0	2.3	1.18	5.34	2.51	0.46	1.26	403
TB00202		10.85	8.1	1.82	7.5	101.0	1.85	1.7	78.3	0.8	0.30	4.05	0.85	0.16	1.00	366
TB00203		8.10	4.5	1.14	10.2	128.0	1.28	1.7	43.1	0.6	0.23	4.69	0.69	0.23	1.17	447
TB00204		7.48	5.8	1.36	7.5	96.0	1.31	1.4	37.9	0.5	0.28	4.15	0.66	0.18	1.06	344
TB00205		6.87	5.7	1.31	16.0	97.8	1.54	1.5	37.3	0.5	0.31	4.26	0.56	0.24	1.34	349
TB00206		7.86	21.7	4.97	31.5	90.9	5.58	2.3	59.0	0.5	0.91	5.20	0.73	0.60	1.77	562
TB00207		5.72	57.3	12.80	39.2	77.3	12.75	1.5	38.5	0.4	1.66	3.87	0.49	1.00	1.20	383
TB00208		6.64	95.1	21.7	65.8	72.2	22.8	1.3	42.3	0.5	3.16	4.77	0.54	1.83	1.58	378
TB00301		10.10	17.4	4.44	71.3	19.9	3.52	2.7	39.4	0.7	0.54	7.52	0.54	0.32	1.70	398
TB00302		9.90	24.1	6.13	109.5	18.4	5.08	3.1	55.9	0.7	0.72	9.81	0.43	0.44	2.30	221
TB00401		10.50	25.8	6.49	122.0	9.0	5.32	4.0	91.0	0.7	0.56	11.05	0.34	0.33	2.33	92
TB00402		8.67	29.8	7.69	116.5	10.3	6.49	3.9	99.0	0.6	0.64	10.90	0.29	0.36	2.47	99
TB00501		12.00	23.4	5.84	49.0	29.1	4.61	2.9	49.0	0.8	0.63	8.85	0.58	0.44	2.01	447
TB00502		11.35	23.7	6.05	45.8	28.0	4.85	2.9	45.3	0.7	0.68	8.53	0.56	0.44	1.53	413
TB00601		12.85	31.0	7.59	34.6	33.1	7.31	2.5	44.1	0.7	1.12	7.66	0.90	0.62	1.67	484
TB00602		9.74	81.6	19.10	76.5	37.7	22.2	3.2	94.0	0.5	3.97	7.14	0.80	2.77	1.00	230
TB00603		9.07	129.5	30.2	74.6	45.5	29.2	2.3	129.0	0.5	4.77	6.22	0.80	2.94	1.02	265
TB00701		10.90	15.7	3.99	29.5	34.5	3.22	2.8	32.6	0.8	0.48	6.21	0.80	0.37	1.98	417
TB00702		11.25	13.8	3.18	39.5	27.4	3.32	2.1	40.7	0.7	0.44	7.24	0.86	0.25	1.28	719
TB00703		10.05	14.7	3.50	64.4	29.2	3.91	1.7	73.3	0.7	0.53	6.87	0.86	0.39	1.16	514
TB00801		9.47	33.3	8.10	46.2	42.3	7.52	2.2	50.7	0.6	0.99	6.39	0.72	0.65	1.76	282
TB00802		7.14	728	176.0	75.1	46.1	160.5	2.3	117.0	0.4	18.95	5.19	0.56	8.06	1.50	191
TB00803		7.15	177.0	42.0	74.2	41.1	42.9	2.4	137.0	0.4	7.15	4.66	0.55	3.91	1.18	206

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CERTIFICATE OF ANALYSIS BR25119088

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		W	Y	Yb	Zr
		ppm	ppm	ppm	ppm
		0.5	0.1	0.03	1
TB00101		2.4	15.3	1.81	225
TB00102		1.4	16.0	1.83	173
TB00201		0.9	33.4	2.56	276
TB00202		1.1	10.8	1.08	145
TB00203		1.0	11.1	1.86	146
TB00204		0.9	12.6	1.30	136
TB00205		1.4	14.1	1.69	131
TB00206		1.2	38.6	3.96	160
TB00207		0.6	51.5	6.81	118
TB00208		0.9	111.0	13.55	133
TB00301		1.4	19.1	2.16	196
TB00302		1.8	29.7	3.05	209
TB00401		2.1	21.8	2.44	215
TB00402		2.0	23.6	2.54	198
TB00501		1.5	26.4	2.81	259
TB00502		1.4	24.2	2.65	232
TB00601		1.2	45.3	4.54	255
TB00602		0.9	121.5	19.45	196
TB00603		1.3	185.5	19.75	185
TB00701		1.1	21.9	2.74	227
TB00702		1.5	17.8	2.31	255
TB00703		3.7	19.7	2.80	213
TB00801		1.1	34.0	4.58	210
TB00802		1.3	447	58.5	155
TB00803		1.2	264	26.2	151



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Page: **Appendix 1**
 Total # Appendix Pages: **1**
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	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>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</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">LEV-01</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">ME-MS81</td> </tr> <tr> <td>PUL-21</td> <td>PUL-QC</td> <td>TRA-21</td> <td>WEI-21</td> </tr> </table>	BAG-01	LEV-01	LOG-22	ME-MS81	PUL-21	PUL-QC	TRA-21	WEI-21
BAG-01	LEV-01	LOG-22	ME-MS81						
PUL-21	PUL-QC	TRA-21	WEI-21						