ASX: ABX

6.5km Rare Earth Channel Confirmed, Thickest Intercepts To-Date

- ❖ First pass drilling between Deep Leads and Rubble Mound Rare Earth discoveries confirms 6.5km contiguous mineralised channel
- Exceptionally thick, shallow zone encountered with highlights including:

Hole	From (m)	To (m)	Metres (m)	Permanent Magnet ¹ ppm	TREO ² avg ppm	TREO-CeO ₂ ppm ³	TREO max ppm
RM217	2	23	21	149	564	475	2511
Includes	2	4	2	568	2092	1794	2511
RM218	4	9	5	327	987	804	1524
Includes	6	9	3	463	1349	1099	1524
RM220	1	5	4	183	1059	534	2347
RM221	2	10	8	184	750	652	1556
Includes	4	8	4	286	1138	1030	1556
RM222	2	15	13	137	621	451	993

¹ Permanent Magnet = the four high-value rare earth oxides: Nd₂O₃ + Pr₆O₁₁ + Tb₄O₇ + Dy₂O₃

- Connecting area increases potential for further mineralisation and also highlights opportunity to further extend the channel
- * Results to feed into maiden JORC Resource Estimation which is underway
- ❖ Follow-up drilling campaign planned of ~70 holes anticipated to commence in October 2022

ABx Group Limited (ASX: ABX) ("ABx" or the "Company") is pleased to provide assay results which confirm a 6.5km mineralised channel connecting the Company's Deep Leads and Rubble Mound rare earth discoveries, located in northern Tasmania.

The clay-hosted rare earth elements (REE) occur within a shallow channel structure that increases the prospect size by 27% to 5.1 km² and demonstrates the potential for the mineralised zone to deliver thick intersections as well as expand significantly along strike (see Figure 1). The combined prospective area to be drill tested has increased to more than 30km² as shown in Figure 1.

Commenting on the discovery, ABx Group MD and CEO Dr Mark Cooksey said:

"Our latest results represent a milestone moment in our development of the rare earth channel at Deep Leads and Rubble Mound. The extensive channel structure has connected and combined the two discoveries into a single deposit and, excitingly, the mineralisation has also been shown to return results which are thick – exceeding 20 metres thickness – and near surface.

"These are only first-pass results, with this emerging discovery possessing clear potential to significantly expand the mineralised corridor between the connected areas as well as along strike.

² Total rare earth oxides

³ TREO minus cerium oxide



"The assays confirm the rare earth oxides encountered are rich in the four high-value 'permanent magnet' elements that are critical for advanced technologies, such as electric vehicles, smart phones and wind turbines.

"Furthermore, not all clay-hosted rare earths are created equal. Only those clay deposits formed by ionic adsorption of REE metals onto clays (IAC REE) achieve high extraction rates at low cost and are the most sought-after deposits. ABx Group has confirmed Deep Leads possesses these ionic adsorption clays and has successfully delivered extraction rates of 50% to 75% of contained REE using benign, low-cost processing techniques¹. ABx is the first to discover true IAC REE in Tasmania."

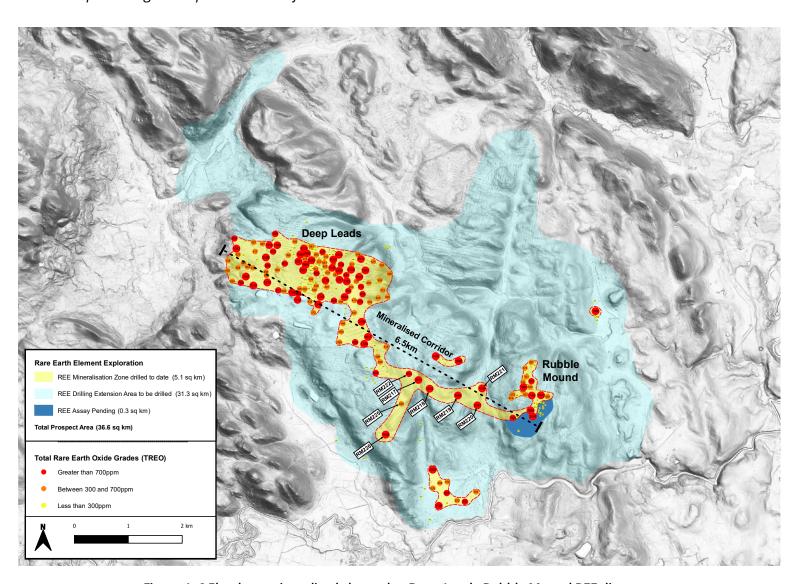


Figure 1: 6.5km long mineralised channel at Deep Leads-Rubble Mound REE discovery

While the Company's modelling had suggested the discoveries at Deep Leads and Rubble Mound are connected along a southeast trending channel, the results from holes RM217-225 provide confirmation of this interpretation.

¹ See ASX Announcement dated 31 May 2022.



Assay results confirm the adjoining mineralisation contains excellent grades, with holes such as RM217 returning a maximum of 2511 ppm of total rare earth oxide (TREO). This hole has also proven that the channel can host thicker intercepts, in this case to a depth of over 20 metres. Further work will be required to assess the size and depth potential of this connected area.

To date, rare earths encountered have typically been concentrated in buried channel structures of 6-12m depth. However, the latest results demonstrate the region's capacity to host even shallower mineralisation, with RM219 recording a 1m assay grading 1884ppm TREO at surface.

These results will feed into a maiden JORC Resource Estimation, which is already underway.

Upcoming drilling campaign

The receipt of the Company's latest assay results has increased ABx's confidence in its geological interpretation and will inform targeting work for an upcoming drilling program, anticipated to commence in October 2022.

The campaign is pending government approvals with most proposed drill site locations already falling under a previously approved work program.

During this campaign, ABx intends to complete approximately 70 drill holes with much of this work focussed on stepping out from the known northwest trending channel. The company will also test in-fill targets between Deep Leads and Rubble Mound, as well as inspect a new style of REE mineralisation encountered in alluvial flats to the south of the project².



Figure 2: Tasmania's eDrill drilling contractors on site at Deep Leads, led by ABx Group Operations Manager Nathan Towns

² See ASX Announcement dated 6 September 2022.



This announcement is approved for release by the board of directors.

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Glossary of technical terms

Rare earth elements: (REE) are lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), promethium (Pm), samarium (Sm), europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb) and lutetium (Lu). Yttrium (Y) is also typically grouped with the REE.

TREO: is total rare earth element oxides in the sample, with the REE metals expressed as rare earth element oxides, which is a common method for summarising the total grade.

TREO-CeO₂: are TREO minus the amount of cerium oxide in the sample. CeO₂ is relatively low in value.

ppm: is parts per million by mass, which is the standard unit for reporting REE grades. 10,000ppm = 1.0%.

Permanent magnets: are used in electronic and computing equipment, batteries, electric vehicles, wind turbines, mobile phones and military systems. Nd & Pr are used in high-power permanent magnets. Dy, Sm & Tb are used in high-temperature permanent magnets. Some reporters called them "**Super Magnet**" REE.

Ionic adsorption clay (IAC) REE: In contrast with hard-rock REE ores, ionic adsorption clay REE mineralisation forms when REE attach loosely to clays and can be recovered by low-cost leaching methods. IAC REE deposits have been mined in southern China and Myanmar. ABx is one of the very few listed companies to discover true IAC REE mineralisation in Australia.

Extraction rates from desorption tests: To assess the potential of extracting REEs from these prospects, tests carried out by ANSTO in Sydney, which has extensive experience in metallurgical testing of clay-hosted rare earth deposits worldwide, were conducted at "standard" desorption conditions of 0.5 M ammonium sulfate at pH 4 which are low-acid, low-cost processing conditions for ionic adsorption clay REE.

The "extraction rate" is the proportion of REE contained in the sample that is extracted and reports to the leach solution. Very few other REE occurrences in Australia have achieved extraction rates that have been achieved on ABx's REE mineralisation in the channels at the Deep Leads project area in northern Tasmania.

Qualifying statements

General: The information in this report that relates to Exploration Information is based on information compiled by Ian Levy who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Levy is a qualified geologist and is a director of ABx Group Limited.

The information relating to Exploration Information and Mineral Resources in Tasmania has been prepared or updated under the JORC Code 2012. Mr Levy has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity, which has been undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

Mr Levy has consented in writing to the inclusion in this report of the Exploration Information in the form and context in which it appears.



Table 2: Full REE results from new holes at Deep Leads & Rubble Mound

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RM221	RM220	4	5	1	481653	5407402	268.6	215	896	630	896	144	37	5.0	29.8	267	17	8	29	6	121	3	33	2	16	178
RM221 4 5 1 481738 5407716 2460 283 888 748 888 194 49 6.1 34.7 141 18 11 38 6 163 2 43 3 16 164 RM221 5 6 1 481738 5407716 2460 383 1165 1027 1165 264 66 8.3 45.2 138 22 15 53 8 254 3 56 3 19 211 RM221 7 8 1 481738 5407716 2460 266 1556 1493 155	RM221	2	3	1	481738	5407716	246.0	86	385	270	385	56	14	2.2	13.4	116	8	3	12	3	56	1	13	1	8	78
RM221 5 6 1 481738 5407716 246.0 383 1165 1027 1165 264 66 8.3 45.2 138 22 15 53 8 254 3 56 3 19 211 RM221 6 7 1 481738 5407716 246.0 266 1556 1493 1556 141 33 11.9 80.1 64 57 11 66 19 153 7 38 7 41 828 RM221 7 8 1 481738 5407716 246.0 213 944 851 944 132 32 6.8 42.5 93 28 8 39 9 125 3 31 4 21 368 RM221 8 9 1 481738 5407716 246.0 56 262 216 262 36 8 8 1.5 9.8 46 6 2 10 2 43 1 8 1 12 1 7 107 RM222 2 3 1 480381 5407981 286.3 179 730 578 730 116 28 4.7 29.7 152 19 7 28 6 101 3 26 3 16 190 RM222 4 5 1 480381 5407981 286.3 23 983 690 993 165 42 5.4 31.3 302 17 9 34 6 144 2 37 2 16 178 RM222 5 6 1 480381 5407981 286.3 232 957 689 957 156 39 5.5 31.8 268 18 9 3 4 6 144 2 37 2 2 5 3 16 195 RM222 6 7 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 568 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 10 11 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 16 195 RM222 10 11 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 2 5 3 1 16 195 RM222 11 12 1 480381 5407981 286.3 160 549 840 840 840 840 840 840 840 840 840 840	RM221	3						101	444	307	444	65	16		17.0	137	9	4	15	3	59		16		10	87
RM221 6 7 1 481738 5407716 246.0 266 1556 1493 1556 141 33 11.9 80.1 64 57 11 66 19 153 7 38 7 41 828 RM221 7 8 1 481738 5407716 246.0 213 944 851 944 132 32 6.8 42.5 93 28 8 39 9 125 3 31 4 21 368 RM221 9 10 1 481738 5407716 246.0 86 353 303 353 56 14 2.3 13.8 49 9 4 14 3 61 1 12 1 7 107 RM221 9 10 1 481738 5407716 246.0 56 262 216 262 36 8 1.5 9.8 46 6 2 10 2 43 1 8 1 5 82 RM222 2 3 1 480381 5407981 286.3 179 730 578 730 116 28 4.7 29.7 152 19 7 28 6 101 3 26 3 16 190 RM222 4 5 1 480381 5407981 286.3 232 957 689 957 156 39 5.5 31.8 268 18 9 34 6 141 3 35 3 20 3 16 191 RM222 6 7 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 25 3 16 195 RM222 8 9 1 480381 5407981 286.3 155 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 12 164 RM222 9 10 1 480381 5407981 286.3 155 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 2 12 164 RM222 9 10 1 480381 5407981 286.3 155 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 2 12 164 RM222 9 10 1 480381 5407981 286.3 156 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 2 12 164 RM222 9 10 1 480381 5407981 286.3 155 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 12 164 RM222 9 10 1 480381 5407981 286.3 156 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 12 164 RM222 9 10 1 480381 5407981 286.3 104 597 379 527 70 17 3.2 19.6 148 13 5 19 4 60 2 16 2 11 137 RM222 10 11 1 480381 5407981 286.3 104 597 379 527 70 17 3.2 19.6 148 13 5 19 4 60 2 2 16 2 11 136 RM222 11 12 1 480381 5407981 286.3 61 331 234 331 37 9 2.0 13.6 98 9 3 12 3 34 1 10 1 10 1 8 93 RM222 12 13 1 4 80381 5407981 286.3 61 331 234 331 37 9 2.0 13.6 98 9 3 12 3 37 1 10 1 10 1 8 93 RM222 14 15 1 480381 5407981 286.3 67 358 243 358 41 10 2.2 13.7 115 9 3 12 3 37 1 10 1 1 8 92								1																		
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RM222 7 8 1 480381 5407981 286.3 169 713 566 713 109 26 4.8 29.7 147 18 7 29 6 97 2 25 3 16 195 RM222 8 9 1 480381 5407981 286.3 135 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 12 164 RM222 9 10 11 480381 5407981 286.3 92 515 331 515 59 14 2.8 16.6 184 11 4 16 4 55 2 14 2 10 122 RM222 10 11 1 480381 5407981 286.3 104 549 370 549 66 15 3.1 19.3 179 12 4 19 4 60 2 16 2 11 137 RM222 11 12 1 480381 5407981 286.3 110 527 379 527 70 17 3.2 19.6 148 13 5 19 4 62 2 16 2 11 136 RM222 12 13 1 480381 5407981 286.3 61 331 234 331 37 9 2.0 13.6 98 9 3 12 3 34 1 10 1 1 8 93 RM222 14 15 1 480381 5407981 286.3 67 358 243 358 41 10 2.2 13.7 115 9 3 12 3 37 1 10 1 8 92	RM222	5	6	1	480381	5407981	286.3	232	957	689	957	156	39	5.5	31.8	268	18	9	34	6	141	3	35	3	16	191
RM222 8 9 10 1 480381 5407981 286.3 135 648 468 648 87 20 4.0 23.8 180 15 6 24 5 83 2 20 2 12 164 RM222 9 10 1 480381 5407981 286.3 92 515 331 515 59 14 2.8 16.6 184 11 4 16 4 55 2 14 2 10 122 RM222 10 11 1 480381 5407981 286.3 104 549 370 549 66 15 3.1 19.3 179 12 4 19 4 60 2 16 2 11 137 RM222 11 12 1 480381 5407981 286.3 110 527 379 527 70 17 3.2 19.6 148 13 5 19 4 62 2 16 2 11 136 RM222 12 13 1 480381 5407981 286.3 61 331 234 331 37 9 2.0 13.6 98 9 3 12 3 34 1 10 1 1 8 93 RM222 14 15 1 480381 5407981 286.3 67 358 243 358 41 10 2.2 13.7 115 9 3 12 3 37 1 10 1 8 92	RM222	6	7	1	480381	5407981	286.3	140	675	511	675	87	20	4.3	28.1	163	18	6	25	6	81	3	20	3	16	195
RM222 9 10 1 480381 5407981 286.3 92 515 331 515 59 14 2.8 16.6 184 11 4 16 4 55 2 14 2 10 122 RM222 10 11 1 480381 5407981 286.3 104 549 370 549 66 15 3.1 19.3 179 12 4 19 4 60 2 16 2 11 137 RM222 11 12 1 480381 5407981 286.3 110 527 379 527 70 17 3.2 19.6 148 13 5 19 4 62 2 16 2 11 136 RM222 12 13 1 480381 5407981 286.3 61 331 234 331 37 9 2.0 13.6 98 9 3 12 3 34 1 10 1 8 93 RM222 13 14 1 480381 5407981 286.3 67 358 243 358 41 10 2.2 13.7 115 9 3 12 3 37 1 10 1 8 92	RM222																									
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RM222 14 15 1 480381 5407981 286.3 67 358 243 358 41 10 2.2 13.7 115 9 3 12 3 37 1 10 1 8 92																										
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Table 2 continued: Full REE results from new holes at Deep Leads & Rubble Mound

	_										Permane	ent Magnet	REE "Sup	erMags"											
Hole	From (m)	To (m)	Metres (m)	East	North	RL	Perman- ent Mag ppm	TREO avg ppm	TREO- CeO ₂ ppm	TREO max ppm	Nd ₂ O ₃	Pr ₆ O ₁₁ ppm	Tb ₄ O ₇ ppm	Dy ₂ O ₃ ppm	CeO₂ ppm	Er ₂ O ₃ ppm	Eu ₂ O ₃	Gd₂O₃ ppm	Ho₂O₃ ppm	La₂O₃ ppm	Lu₂O₃ ppm	Sm ₂ O ₃ ppm	Tm₂O₃ ppm	Yb ₂ O ₃ ppm	Y ₂ O ₃ ppm
RM223	2	3	1	480595	5407063	239.7	37	149	118	149	24	5	1.1	6.7	30	4	2	7	1	20	1	6	1	4	36
RM223	3	4	1	480595	5407063	239.7	33	138	108	138	21	5	1.0	6.2	31	4	2	6	1	18	1	5	1	3	34
RM223	4	5	1	480595	5407063	239.7	29	121	94	121	19	4	0.8	5.3	27	3	1	5	1	16	0	4	0	3	31
RM223	5	6	1	480595	5407063	239.7	25	111	85	111	16	4	0.8	4.6	25	3	1	4	1	14	0	4	0	3	29
RM223	6	7	1	480595	5407063	239.7	20	96	73	96	13	3	0.6	3.8	23	3	1	4	1	12	0	3	0	2	26
RM223	7	8	1	480595	5407063	239.7	20	91	67	91	12	3	0.6	3.6	24	2	1	3	1	11	0	3	0	2	23
RM223	8	9	1	480595	5407063	239.7	21	98	72	98	13	3	0.6	3.9	26	3	1	4	1	12	0	3	0	2	26
RM223	9	10	1	480595	5407063	239.7	23	104	77	104	14	4	0.6	4.0	26	3	1	4	1	13	0	3	0	3	27
RM223	10	11	1	480595	5407063	239.7	17	81	62	81	11	3	0.5	3.4	18	2	1	3	1	9	0	3	0	2	24
RM224	1	2	1	480582	5406744	236.5	26	113	86	113	16	4	0.7	4.6	28	3	1	4	1	15	0	4	0	3	29
RM224	2	3	1	480582	5406744	236.5	29	128	95	128	18	4	0.8	5.2	33	3	1	4	1	15	1	4	1	3	32
RM224	4	5	1	480582	5406744	236.5	16	75	55	75	10	2	0.5	2.9	20	2	1	3	1	8	0	3	0	2	20
RM224	5	6	1	480582	5406744	236.5	16	73	55	73	10	2	0.5	3.0	18	2	1	3	1	8	0	2	0	2	20
RM225	1	2	1	480243	5407427	291.0	11	391	34	391	7	2	0.3	1.8	357	1	0	2	0	6	0	2	0	1	10
RM225	2	3	1	480243	5407427	291.0	19	629	60	629	12	3	0.5	3.5	569	2	1	3	1	11	0	3	0	2	18
RM226	2	3	1	479953	5406857	312.1	58	248	178	248	38	9	1.5	9.2	70	6	2	8	2	33	1	8	1	6	53
RM226	3	4	1	479953	5406857	312.1	46	197	143	197	30	7	1.1	7.3	55	5	2	7	2	26	1	7	1	5	43
RM226	4	5	1	479953	5406857	312.1	56	240	169	240	36	9	1.5	9.2	71	6	2	8	2	30	1	8	1	6	49
RM226	5	6	1	479953	5406857	312.1	70	281	212	281	46	11	1.8	11.7	68	7	3	10	2	38	1	11	1	7	62
RM226	6	7	1	479953	5406857	312.1	100	402	308	402	65	16	2.6	16.6	94	10	4	15	3	56	1	15	2	10	92
RM226	7	8	1	479953	5406857	312.1	185	626	560	626	122	30	4.5	28.5	66	18	7	26	6	105	2	27	3	16	164
RM226	8	9	1	479953	5406857	312.1	418	1438	1322	1438	275	69	10.1	63.8	116	41	17	62	14	257	5	60	6	34	409
RM226	9	10	1	479953	5406857	312.1	294	978	923	978	198	48	6.9	40.1	55	25	12	44	8	206	3	42	3	20	267
RM226	10	11	1	479953	5406857	312.1	198	713	659	713	129	31	5.1	32.0	54	20	8	32	7	133	3	30	3	17	210
RM226	11	12	1	479953	5406857	312.1	197	733	694	733	130	31	5.3	31.6	39	20	8	35	7	150	2	28	3	15	230
RM226	12	13	1	479953	5406857	312.1	121	456	412	456	79	19	3.4	20.5	44	13	5	21	4	79	2	17	2	11	139
RM226	13	14	1	479953	5406857	312.1	112	428	385	428	73	18	3.0	18.2	43	11	4	18	4	75	2	16	2	10	131
RM226	14	15	1	479953	5406857	312.1	32	158	133	158	20	5	1.0	6.2	25	4	1	6	1	25	1	5	1	3	53
RM226	15	16	1	479953	5406857	312.1	117	449	411	449	75	19	3.2	20.4	38	13	5	19	4	74	2	17	2	11	146
RM227	1	2	1	479036	5406739	214.5	61	246	220	246	39	10	1.7	10.8	26	7	2	11	2	42	1	8	1	5	79
RM227	2	3	1	479036	5406739	214.5	59	233	208	233	38	9	1.6	10.1	25	6	2	10	2	39	1	8	1	6	72
RM227	8	9	1	479036	5406739	214.5	33	149	98	149	21	5	0.8	4.8	51	3	1	5	1	21	0	5	0	3	26
RM227	11	12	1	479036	5406739	214.5	15	88	59	88	9	2	0.5	3.3	29	2	1	3	1	11	0	2	0	2	21
RM227	12	13	1	479036	5406739	214.5	19	85	62	85	12	3	0.5	3.2	23	2	1	3	1	12	0	3	0	2	20
RM227	13	14	1	479036	5406739	214.5	20	86	62	86	13	3	0.5	3.1	24	2	1	3	1	12	0	3	0	2	19
RM227	14	15	1	479036	5406739	214.5	10	44	32	44	6	2	0.2	1.5	12	1	0	1	0	7	0	1	0	1	10
RM228	1	2	1	479561	5406415	168.2	31	134	108	134	20	5	0.8	5.1	26	3	1	5	1	22	0	5	0	3	36
RM228	3	4	1	479561	5406415	168.2	32	167	98	167	20	5	0.9	5.4	70	3	1	5	1	17	1	4	1	3	30



JORC Code, 2012 Edition – Table 1 report

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. 	 Drill holes samples to 25 metres maximum depth but typically to 12 metres depth
	 Include reference to measures taken to ensure sample representivity and the appropriate calibration 	on of any measurement tools or systems used.
	 Aspects of the determination of mineralisation that are Material to the Public Report. 	
	 In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such a Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed info 	s where there is coarse gold that has inherent sampling problems.
Drilling techniques	• Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	 Reverse circulation rotary percussion and push-tube coring
Drill sample	Method of recording & assessing core and chip sample recoveries and results assessed.	Weight tests indicated reliable sample recovery
recovery	 Measures taken to maximise sample recovery & ensure representative nature of the samples. 	
	 Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 Geologically logged in detail by senior geologists. Every sample photographed, with photos and logs and assays entered into ABx's proprietary ABacus database.
Sub-sampling	If core, whether cut or sawn and whether quarter, half or all core taken.	Chips are subsampled using bauxite shovel and
techniques	• If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	quartering method in accordance with ISO standards
and sample	• For all sample types, the nature, quality and appropriateness of the sample preparation technique.	
preparation	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	
	• Measures taken to ensure that the sampling is representative of the in situ material collected, including fo	r instance results for field duplicate/second-half sampling.
	• Whether sample sizes are appropriate to the grain size of the material being sampled.	
Quality of assay data	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 	 Assaying done at NATA-registered commercial labs of ALS Brisbane Australia and Labwest Minerals Analysis in
and	For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in	Western Australia. Duplicate interlab assays done.
laboratory tests	determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	 Desorption extraction tests were conducted by ANSTO at Lucas Heights, Sydney NSW with assays done at ALS



Criteria	JORC Code explanation	Commentary
	acceptable levels of accuracy (ie lack of bias) & precision have been established.	
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 All assaying done at NATA-registered commercial laboratories of ALS Brisbane Australia and Labwest Minerals Analysis Pty Ltd in Western Australia. Duplicate interlab assays showed excellent correspondence.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 GPS hole locations have been tested for accuracy on many prospects, all satisfactorily – within 1m.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	Drilling typically at 50 to 75 metre spacing on mineralised prospects
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	 Vertical holes through flat-dipping bauxite is as good as it gets
Sample security	The measures taken to ensure sample security.	Samples collected and assembled onto pallets every day
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Several audits confirmed reliability

Section 2 Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues wi third parties such as joint ventures, partnerships, overriding royalties, native title interests, historic sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	 ABx is the first company to explore for Rare Earth Elements in northern Tasmania.
Geology	Deposit type, geological setting and style of mineralisation.	Bauxite deposit formed on Lower Tertiary basalts



Criteria	JORC Code explanation	Commentary
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	 GPS location. Airborne Radar RL topography Lidar topography contoured at 1m height intervals All holes are short straight vertical holes
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	All data are presented.
Relationship between mineralisation widths & intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	 Mineralisation typically 3 to 6 metres thick and Drillholes are sampled at 1 metre intervals
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	• N.A.
Balanced reporting	 Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	All new results are reported in this report
Other substantive exploration data	 Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	• N.A.
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 Step-out drilling over a wider area has been planned, work plans submitted and new drill rig configurations have been developed.

END