HIGH-GRADE IONIC RARE EARTH ZONE AT EMA EXPANDED BY 54% TO 12 KM^2

Highlights

- **54% increase in high-grade zone (>1000ppm TREO) to 12 km2**
- **High-grade REE mineralisation extends 3.2km to the east**
- **Consistent NdPr high grades in the lower horizon at Ema East**
- **Grades (>1,000ppm TREO) remain open in all directions**
- **Mineral Resource Estimation on track for release Q1 covering only 82km2 drilled of the 189km2 available**

Significant results:

- 10m@**932ppm TREO** from 10m (EML-TR-065), including 3m@**1282ppm** TREO ending in **1221ppm** TREO
- 10m@**826ppm TREO** from 6m (EML-TR-052), including 5m@**1030ppm** TREO ending in **1136ppm** TREO
- 10m**@833ppm TREO** from 0m (EML-TR-022), including 3m@**1179ppm** TREO ending in **1044ppm** TREO
- 7m**@947ppm TREO** from 5m (EML-TR-051), including 3m**@1173ppm** TREO ending in **760ppm** TREO
- 8m**@920ppm TREO** from 11m (EML-TR-014), including 3m@**1062ppm** TREO
- 10m**@820ppm TREO** from 10m (EML-TR-27), ending in **776ppm** TREO
- 5m**@772ppm TREO** from 6m (EML-TR-35), including 2m@**983ppm** TREO ending in **938ppm** TREO
- 10m@**748ppm TREO** from 10m (EML-TR-36) including 1m@**1120ppm**

Brazilian Critical Minerals Limited (**ASX: BCM**) ("**BCM**" or the "**Company**") is pleased to announce the assay results for the third and final batch of auger holes drilled on 800 metre centres for rare earth elements (REEs) at Ema in the Apuí region of Brazil (Figure 1).

A new 4 km2 zone with outstanding TREO grades (>1,000ppm TREO) with exceptional values for NdPr oxides in the enrichment horizon was defined, extending that zone to 12 km2 (Figure 2), representing a 54% increase in the high grade area within this major and widespread ionic rare earth deposit, which remains open in all directions.

The average grade of the lower horizon within this 12km2 zone is 1048ppm TREO, based on a cut-off of 700ppm TREO combined with NdPr >100ppm. The vast majority of auger holes with composite grades below 800ppm TREO (Figure 2) are holes that, due to the limitations of the drilling technique and the location in respect to the topography, failed to intercept the lower enriched horizon where values are generally above 1000ppm TREO and NdPr >200ppm respectively.

The 36km2 enriched zone in Ema East is similar in grade and thickness to that at Ema, with the higher grades contained within the 10 metres of regolith sitting above the saprock/fresh rock interface, showing a clear increase in grades with depth (Figure 3). All significant intersections (>500ppm TREO) also contain the higher grades (>100ppm) of NdPr oxides.

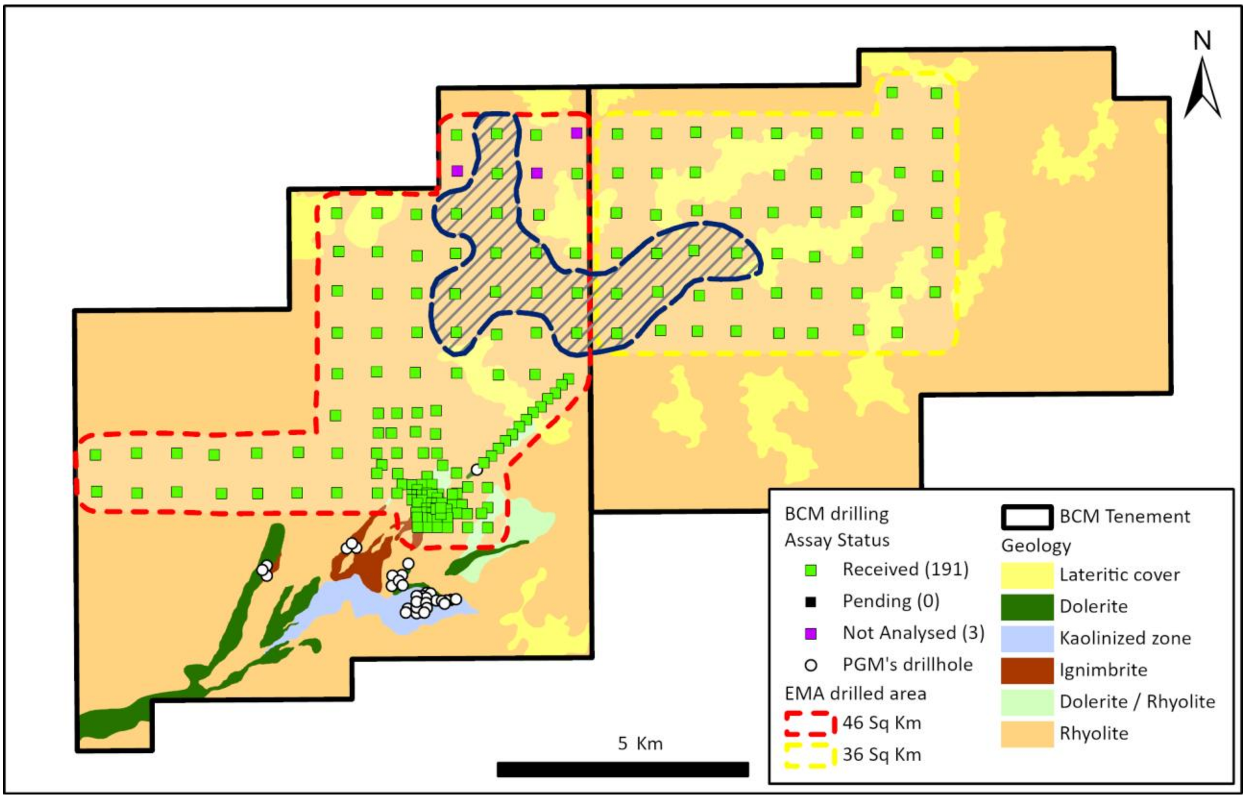


Figure 1 - Ema-Ema East REE project – auger holes on 800m centres and infill drilling status over 82 sq km.

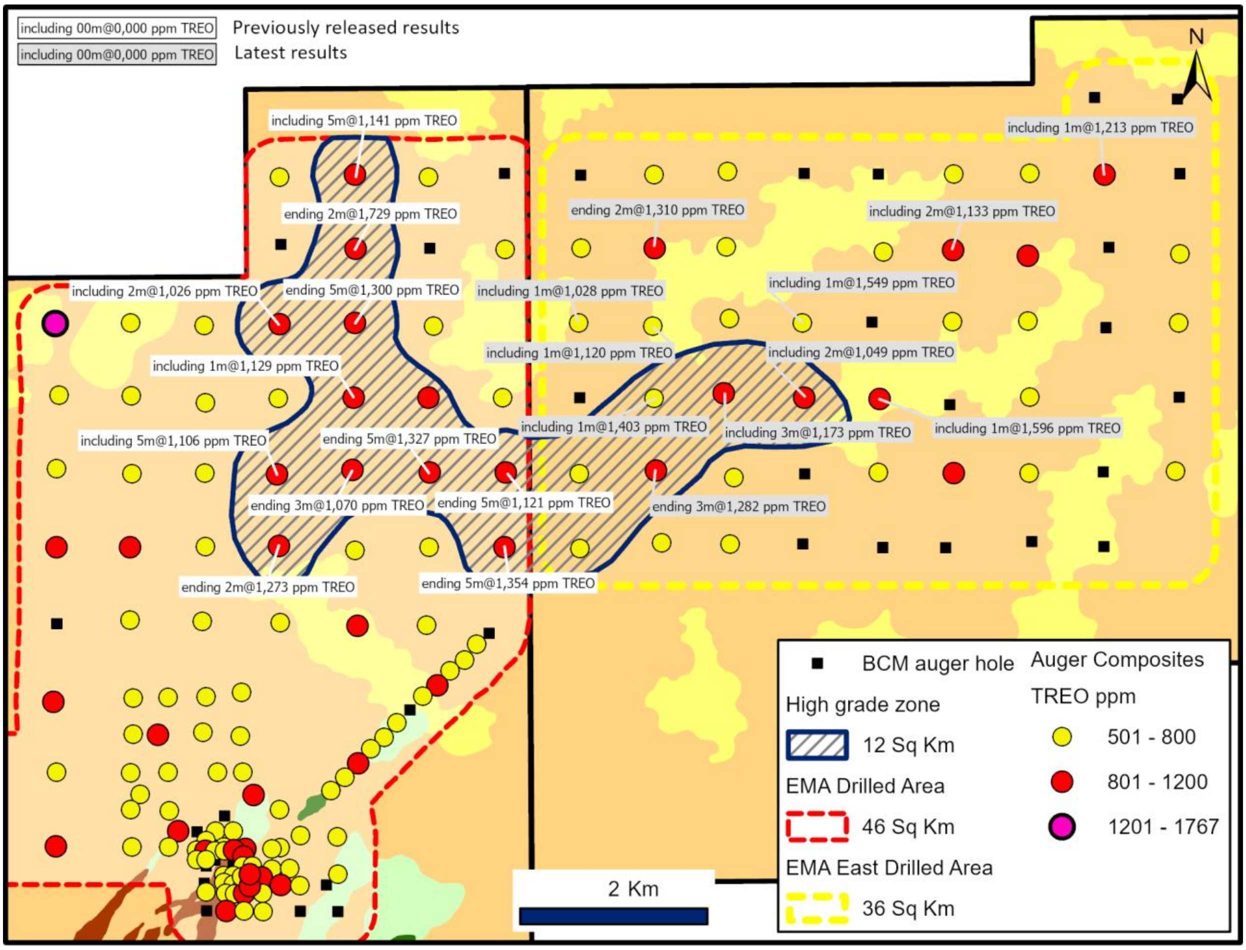


Figure 2 – Ema-Ema East TREO composite grade distribution

The Ema-Ema East iREE project comprises 189 km2 of felsic volcanic over which 194 auger holes totalling 2,749 metres have been completed to date, covering 82 km2 (Figure 1). BCM has received and announced the full assay results for 191 holes of the total of 194 holes drilled to date.

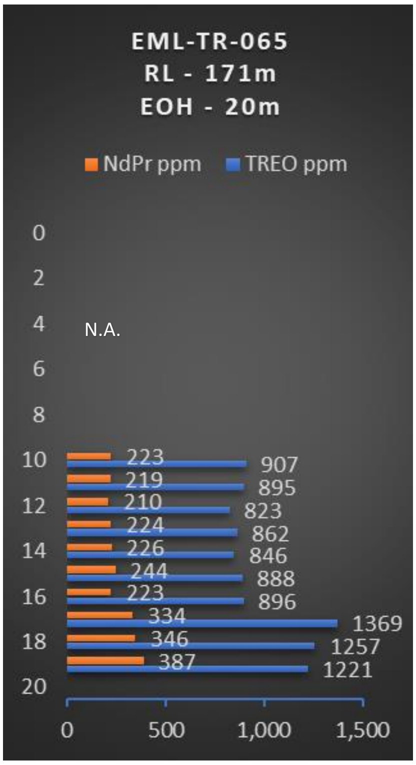
Ema REE project

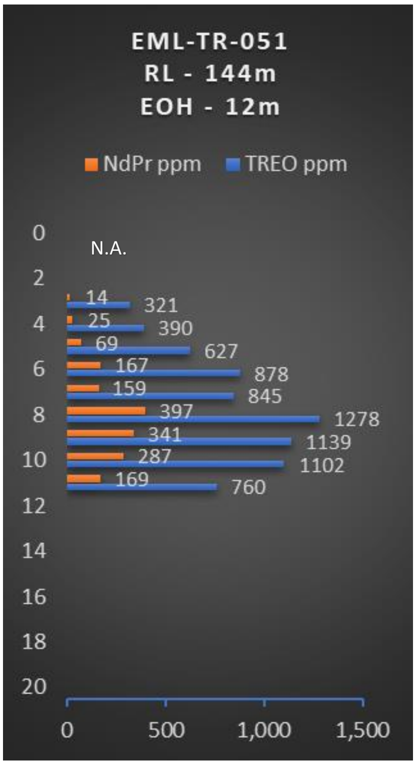
The EMA iREE project (Ema and Ema East leases) is unique amongst Brazilian REE projects in that it shares almost identical characteristics with the iREE deposits developed over felsic volcanic rocks in southwest China, the world´s largest known ionic clay region.

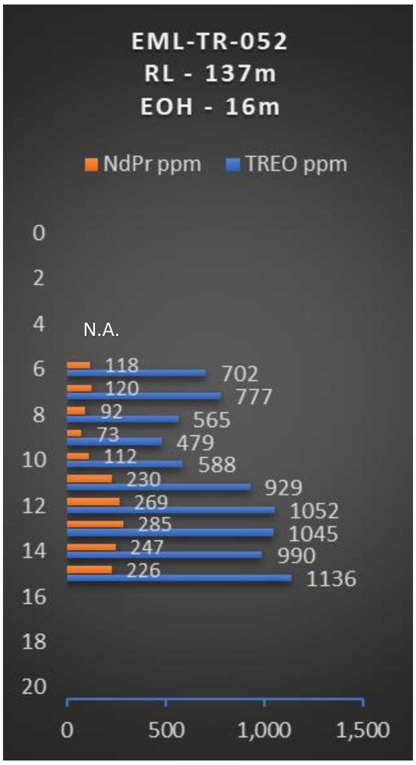
Exploration drilling has been conducted with hand-held auger drills, which offer the advantage of low-cost, rapid deployment and mobility. One key constraint of auger drilling is the depth limitation, with the deepest holes, generally containing the highest-grade results, drilled to ~20m. In addition, most of the exploration to date has been conducted across the hill slopes, on widely spaced (800m) centres, with limited drilling in the valleys and foothills, potentially facilitating deeper penetration into the higher-grade zones, where preserved.

Despite differing collar elevations the typical NdPr enrichment is invariably encountered at approximately the same depth, in the saprolite zone immediately above the fresh rock. The enriched zone is generally 10 metres thick and widespread in holes 800m apart, suggesting the presence of a continuous high grade zone. Over a minimum thickness of 10 metres the TREO grade increases significantly with increasing depth from around 500ppm to up to 1,880ppm. More importantly, the proportion of valuable heavy rare earth elements also increases to over 31% at the end of hole.

Holes EML-TR-065, 051 and 052 (Figures 3, 4) are clear examples of an enrichment zone with the presence of high grades at the base of drilling, suggesting the potential for additional high grades at depth with a further depth in drilling. Holes EML-TR-014, 026 and 035 demonstrate that the enrichment zones are still present on a regional basis at least 3.2km east of the high grade zone (Figures 3, 4).







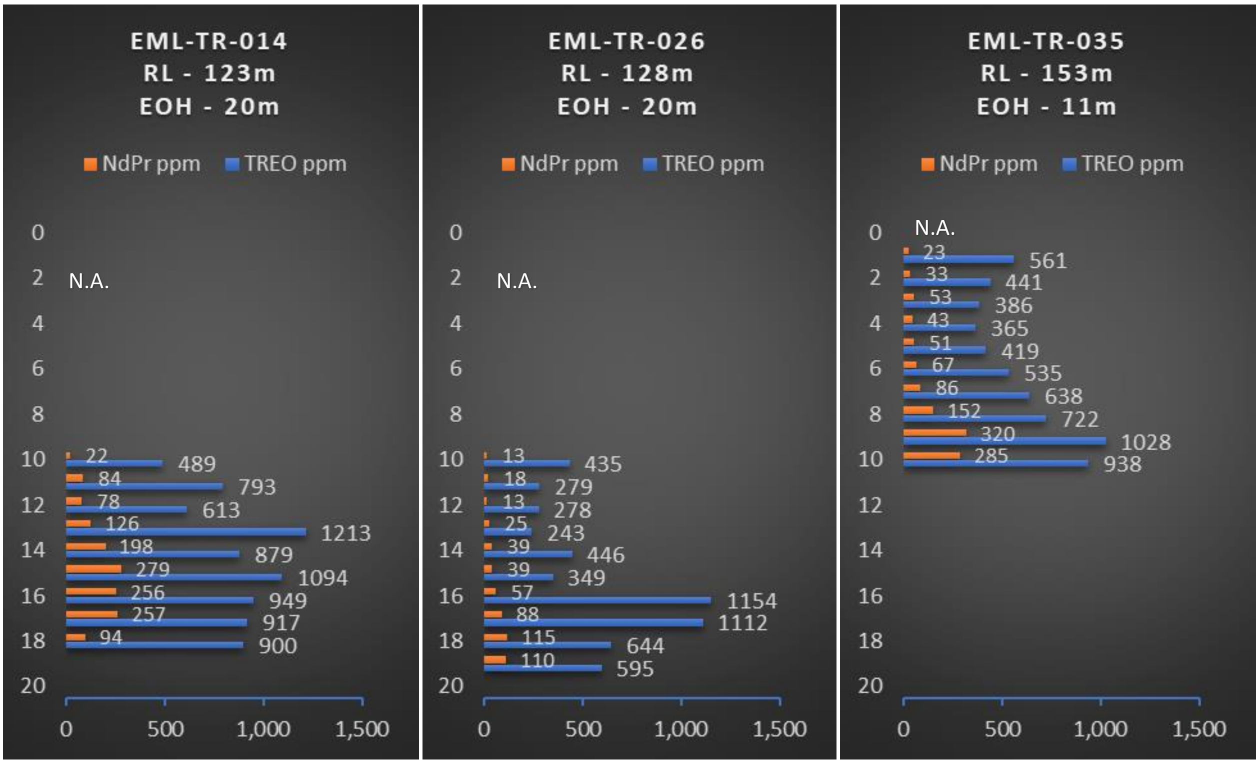


Figure 3 – Drill-hole profiles showing typical enrichment zone with high NdPr grades closer to the fresh rock.

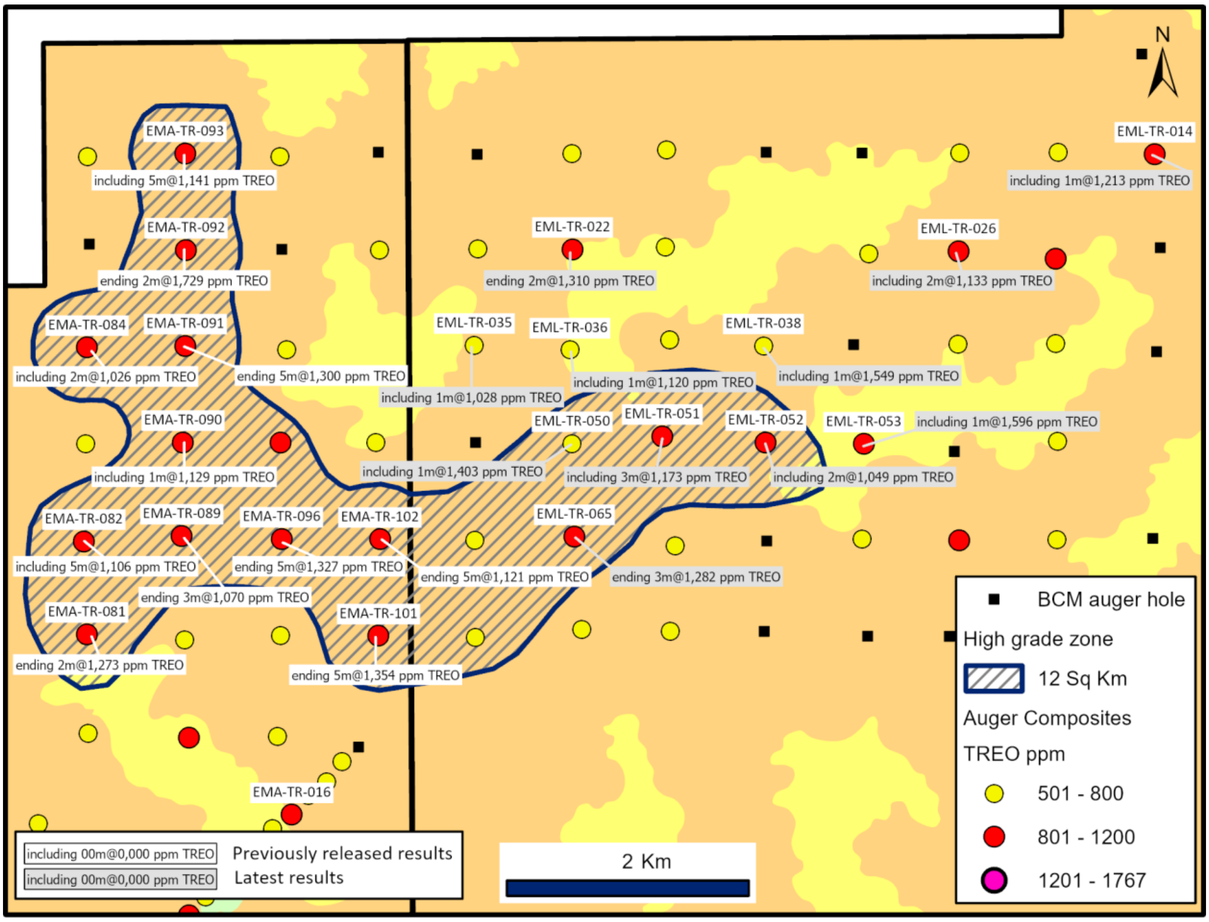


Figure 4 -Location map of auger holes in the high-grade zone with TREO values >1,000

Exploration strategy and future work at Ema/Ema East

Regional programme to collect density data for the upcoming MRE is in progress.

Processing of assay results received and commence additional assays via ammonium sulphate leaching on all relevant intersections to support the Mineral Resource Estimate.

Conduct a full suite of metallurgical tests on a representative sample at ANSTO, Sydney

Additionally, focus on an infill drilling programme at 200m centre in the next drilling season (May-December 2024) testing the highest-grade zones identified during drilling to date, designed to define an indicated category Mineral Resource Estimate of 180-200Mt at an average grade >1000ppm TREO.

This announcement has been authorised for release by the Board of Directors.

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About Brazilian Critical Minerals Ltd

Brazilian Critical Minerals Limited (BCM) is a unique mineral exploration and mineral processing technology company listed on the Australian Securities Exchange.

Its major exploration focus is Brazil, mainly in the southern Amazon, a region BCM believes is vastly underexplored with high potential for the discovery of world class gold-PGM, base metal and Ionic Adsorbed Clay (IAC) Rare Earth Element deposits. BCM's key assets are the Três Estados and Ema gold-PGM projects and the iREE projects at Ema, Ema East and Apui. The company has 718km² of exploration tenements within the Colider Group and adjacent sediments, a prospective geological environment for gold, PGM, base metal and iREE deposits.

BCM is also developing an environmentally friendly and sustainable beneficiation process to extract precious metals using a unique bio leach process. This leading-edge process, that extracts precious metals naturally, is being developed initially for the primary purpose of economically extracting Platinum Group metals from the Três Estados mineral deposit. It is expected that such technology will be transferable and relevant to many other PGM projects. BCM believes that this processing technology is critical in the environmentally timely PGM space and supports a societal need to move towards a carbon neutral economy.

Competent Person Statement

The information in this report that relates to exploration results is based on information compiled by Mr. Antonio de Castro, BSc (Hons), MAusIMM, CREA, who acts as BCM´s Senior Consulting Geologist through the consultancy firm, ADC Geologia Ltda. Mr. de Castro has sufficient experience which is relevant to the type of deposit under consideration and to the reporting of exploration results and analytical and metallurgical test work to qualify as a competent person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Castro consents to the report being issued in the form and context in which it appears.

References

1. BBX Minerals Limited (ASX:BBX) ASX Announcement "Assays by Ammonium Sulphate Leach Confirm Adsorbed Clay REE" on 19.07.23

2. BBX Minerals Limited (ASX:BBX) ASX Announcement "Drilling at Ema continues to deliver positive REE results" on 19.10.23

3. BBX Minerals Limited (ASX:BBX) ASX Announcement “BBX extends rare earth mineralization at Ema to 7km x 6km” on 07.12.23

4. BCM Minerals Limited (ASX:BCM) ASX Announcement “ Extensive Ionic Rare Earth mineralization continues to be defined by drilling at the Ema project” On 06.02.24

5. * Refer to BRE´s Prospectus announced to the ASX on 19 December 2023.

Appendices

Appendix 1 – BCM´s rare earth projects

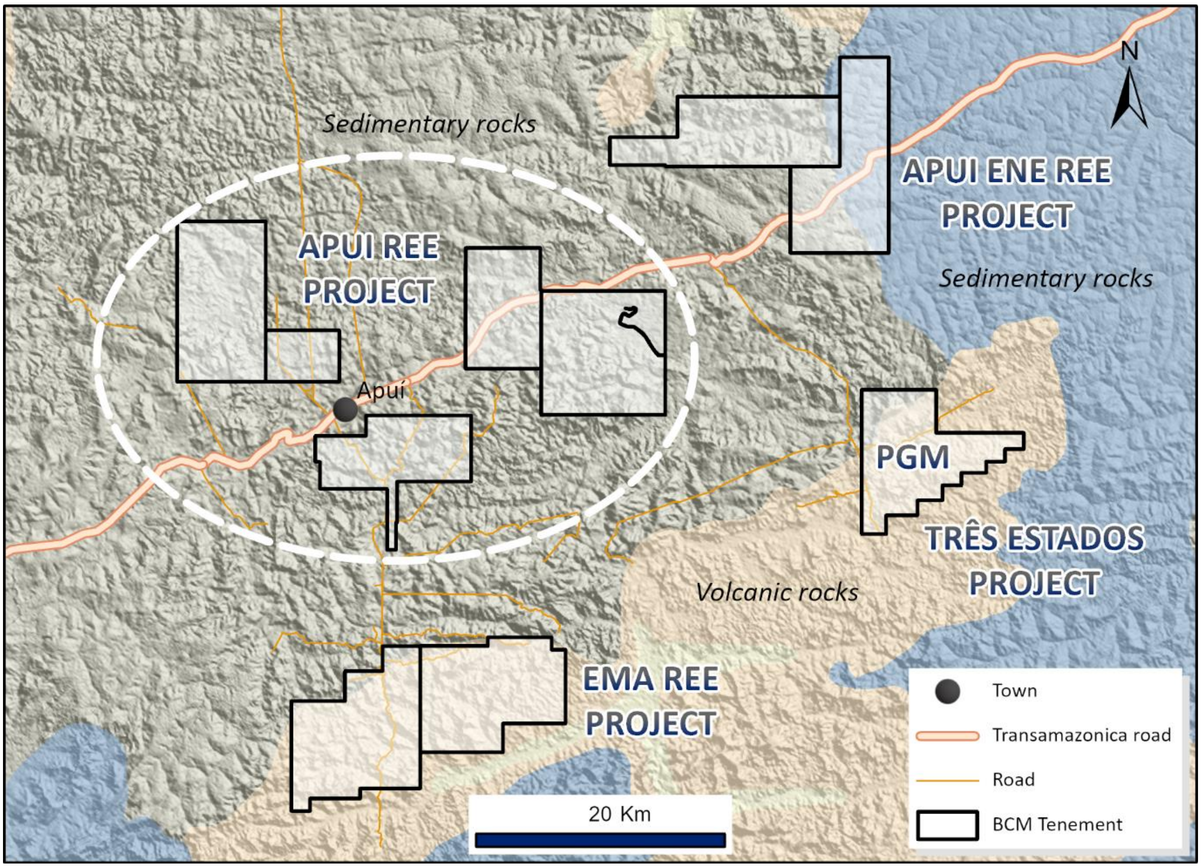

Figure 4 - BCM´s REE projects

Appendix 2 – Auger hole intersections with 500ppm TREO cut-off grade

Auger hole	From (m)	Interval (metres)	TREO ppm	% HREO[1]	% MREO[2]	NdPr ppm	DyTb ppm
EML-TR-008	10	1	647	17	15	88	10
EML-TR-009	9	1	754	12	7	47	8
EML-TR-012	13	1	505	19	6	21	8
EML-TR-013	10	10	599	16	20	108	10
EML-TR-014	11	8	920	14	20	172	13
EML-TR-021	7	3	564	18	15	73	10
EML-TR-022	0	10	833	16	21	185	14
EML-TR-023	3	6	643	21	21	127	14
EML-TR-025	11	9	619	18	18	103	11
EML-TR-026	16	4	876	14	14	92	10
EML-TR-027	10	10	820	15	27	214	11
EML-TR-029	12	1	509	18	16	73	9
EML-TR-035	1	1	561	13	5	23	8
EML-TR-035	6	5	772	18	23	182	14
EML-TR-036	8	10	748	24	27	191	17
EML-TR-037	5	3	655	15	12	68	11
EML-TR-038	13	7	674	15	13	66	8
EML-TR-040	2	4	559	16	8	39	8
EML-TR-040	7	4	799	15	19	137	11
EML-TR-041	4	2	646	18	12	66	12
EML-TR-043	11	1	689	13	9	53	9
EML-TR-050	8	1	1403	7	2	23	11
EML-TR-050	13	5	649	20	19	113	13
EML-TR-051	5	7	947	24	25	227	21
EML-TR-052	6	10	826	23	23	177	19
EML-TR-053	9	2	1056	9	2	10	7
EML-TR-055	10	2	578	16	4	15	8
EML-TR-063	2	3	662	10	4	18	6
EML-TR-063	7	1	566	13	6	28	7
EML-TR-064	1	1	503	17	4	10	9
EML-TR-065	10	10	996	18	28	264	19
EML-TR-066	0	1	537	16	10	45	8
EML-TR-066	6	1	649	11	6	29	7
EML-TR-066	8	2	596	20	13	68	12
EML-TR-068	14	2	667	24	27	165	15
EML-TR-069	14	1	895	10	11	85	9
EML-TR-070	11	5	576	19	15	76	11
EML-TR-072	13	2	518	16	22	102	8
EML-TR-078	8	4	667	20	24	148	12
EML-TR-079	11	3	564	18	12	58	10

[1] HREO (Heavy Rare Earth Oxide) = Sm_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Y_2O_3 + Lu_2O_3

[2] MREO (Magnetic Rare Earth Oxide) = Tb_4O_7 + Dy_2O_3 + Nd_2O_3 + Pr_6O_{11}

Auger hole	From (m)	Interval (metres)	TREO ppm	% HREO[1]	% MREO[2]	NdPr ppm	DyTb ppm
EML-TR-079	15	1	500	20	20	88	10

Appendix 3 – Total REE oxide distribution down-hole

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-001	0	1	493	40	18	71	20	
EML-TR-001	1	2	346	40	15	38	14	
EML-TR-001	2	3	319	42	17	42	13	
EML-TR-001	3	4	389	34	21	68	13	
EML-TR-001	4	5	332	34	20	56	11	
EML-TR-001	5	6	211	29	20	37	6	
EML-TR-002	0	1	198	35	14	21	6	
EML-TR-002	1	2	300	28	12	30	7	
EML-TR-002	2	3	292	24	20	51	6	
EML-TR-002	3	4	338	23	21	64	6	
EML-TR-002	4	5	352	25	23	73	7	
EML-TR-002	5	6	323	25	23	68	7	
EML-TR-002	6	7	346	25	23	74	7	
EML-TR-002	7	8	385	25	23	82	8	
EML-TR-002	8	9	375	27	23	78	8	
EML-TR-002	9	10	378	25	21	71	8	
EML-TR-007	0	1	294	38	16	38	10	
EML-TR-007	1	2	241	32	17	34	7	
EML-TR-007	2	3	312	30	17	45	9	
EML-TR-007	3	4	242	41	17	31	9	
EML-TR-007	4	5	295	31	21	53	9	
EML-TR-007	5	6	404	25	24	88	9	
EML-TR-007	6	7	483	23	26	**116**	11	
EML-TR-007	7	8	487	21	28	**127**	10	
EML-TR-008	0	5	N.A.					
EML-TR-008	5	6	239	21	11	22	5	
EML-TR-008	6	7	241	21	10	20	5	
EML-TR-008	7	8	327	17	12	33	5	
EML-TR-008	8	9	416	16	17	62	7	
EML-TR-008	9	10	93	11	10	8	1	
EML-TR-008	10	11	647	17	15	88	10	647
EML-TR-008	11	12	91	15	19	16	2	
EML-TR-008	12	13	254	17	20	46	4	
EML-TR-008	13	14	241	16	20	45	4	
EML-TR-008	14	15	245	18	22	51	4	
EML-TR-009	0	7	N.A.					

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-009	7	8	307	25	13	34	7	
EML-TR-009	8	9	374	26	15	46	9	
EML-TR-009	9	10	754	12	7	47	8	754
EML-TR-009	10	11	161	21	19	27	3	
EML-TR-009	11	12	164	21	22	32	4	
EML-TR-009	12	13	267	23	22	52	6	
EML-TR-009	13	14	365	19	24	79	7	
EML-TR-009	14	15	402	16	27	102	6	
EML-TR-009	15	16	499	19	29	138	10	
EML-TR-009	16	17	482	21	31	139	10	
EML-TR-010	0	1	198	32	14	21	6	
EML-TR-010	1	2	192	32	15	24	5	
EML-TR-010	2	3	208	26	16	29	5	
EML-TR-010	3	4	290	24	16	40	6	
EML-TR-010	4	5	279	23	17	43	5	
EML-TR-010	5	6	243	28	16	34	5	
EML-TR-010	6	7	266	28	16	37	6	
EML-TR-011	0	1	182	43	9	9	7	
EML-TR-011	1	2	233	31	7	10	6	
EML-TR-011	2	3	304	25	8	17	6	
EML-TR-011	3	4	275	26	9	20	6	
EML-TR-011	4	5	259	30	11	23	6	
EML-TR-011	5	6	310	22	12	30	6	
EML-TR-012	0	7	N.A.					
EML-TR-012	7	8	312	25	14	38	6	
EML-TR-012	8	9	318	26	14	38	7	
EML-TR-012	9	10	292	31	15	35	8	
EML-TR-012	10	11	284	36	14	33	9	
EML-TR-012	11	12	235	34	17	32	7	
EML-TR-012	12	13	255	42	14	27	9	
EML-TR-012	13	14	505	19	6	21	8	505
EML-TR-012	14	15	247	40	14	26	8	
EML-TR-012	15	16	227	36	14	26	7	
EML-TR-012	16	17	259	32	14	30	7	
EML-TR-013	0	10	N.A.					
EML-TR-013	10	11	627	19	23	**135**	12	599
EML-TR-013	11	12	605	18	23	**126**	12	
EML-TR-013	12	13	500	17	16	70	8	
EML-TR-013	13	14	545	18	20	98	10	
EML-TR-013	14	15	644	13	14	79	9	
EML-TR-013	15	16	667	15	19	**116**	10	
EML-TR-013	16	17	636	17	20	**119**	11	
EML-TR-013	17	18	590	16	20	**109**	10	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-013	18	19	541	17	21	**106**	9	
EML-TR-013	19	20	639	15	21	**125**	10	
EML-TR-014	0	10	N.A.					
EML-TR-014	10	11	489	14	6	22	7	
EML-TR-014	11	12	793	11	12	84	9	920
EML-TR-014	12	13	613	14	14	78	8	
EML-TR-014	13	14	**1213**	8	11	**126**	9	
EML-TR-014	14	15	879	14	24	**198**	12	
EML-TR-014	15	16	**1094**	13	27	**279**	15	
EML-TR-014	16	17	949	14	28	**256**	13	
EML-TR-014	17	18	917	12	29	**257**	11	
EML-TR-014	18	19	900	26	13	94	25	
EML-TR-014	19	20	6	33	17	1	0	
EML-TR-015	0	1	N.A.					
EML-TR-015	1	2	261	32	8	13	8	
EML-TR-015	2	3	304	25	7	12	8	
EML-TR-015	3	4	333	23	6	13	8	
EML-TR-015	4	5	317	25	7	15	8	
EML-TR-015	5	6	318	31	8	17	10	
EML-TR-015	6	7	292	27	10	20	9	
EML-TR-015	7	8	311	26	9	21	8	
EML-TR-015	8	9	404	20	9	27	8	
EML-TR-015	9	10	456	17	7	26	8	
EML-TR-015	10	11	342	23	11	31	8	
EML-TR-021	0	1	129	63	16	12	8	
EML-TR-021	1	2	139	60	16	15	8	
EML-TR-021	2	3	189	55	16	21	11	
EML-TR-021	3	4	183	52	16	20	10	
EML-TR-021	4	5	196	48	16	23	9	
EML-TR-021	5	6	267	37	13	26	10	
EML-TR-021	6	7	375	27	12	34	10	
EML-TR-021	7	8	551	19	10	47	10	564
EML-TR-021	8	9	487	14	17	75	7	
EML-TR-021	9	10	655	20	17	97	12	
EML-TR-022	0	1	679	13	14	86	10	833
EML-TR-022	1	2	545	14	10	43	9	
EML-TR-022	2	3	588	13	10	50	8	
EML-TR-022	3	4	755	12	12	78	9	
EML-TR-022	4	5	675	15	18	**110**	10	
EML-TR-022	5	6	773	15	23	**169**	11	
EML-TR-022	6	7	775	18	26	**185**	14	
EML-TR-022	7	8	917	20	31	**263**	18	
EML-TR-022	8	9	**1576**	20	36	**540**	29	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-022	9	10	1044	22	33	**326**	22	
EML-TR-023	0	1	340	28	7	15	10	
EML-TR-023	1	2	359	25	8	18	9	
EML-TR-023	2	3	452	22	11	41	10	
EML-TR-023	3	4	521	22	17	79	12	643
EML-TR-023	4	5	590	22	20	**105**	14	
EML-TR-023	5	6	602	20	18	93	12	
EML-TR-023	6	7	607	21	20	**109**	13	
EML-TR-023	7	8	662	21	25	**152**	14	
EML-TR-023	8	9	874	21	28	**225**	18	
EML-TR-025	0	10	N.A.					
EML-TR-025	10	11	374	21	16	50	8	
EML-TR-025	11	12	513	18	12	51	10	619
EML-TR-025	12	13	535	19	14	66	11	
EML-TR-025	13	14	574	23	17	86	15	
EML-TR-025	14	15	590	19	20	**108**	11	
EML-TR-025	15	16	589	17	20	**109**	9	
EML-TR-025	16	17	601	17	20	**114**	10	
EML-TR-025	17	18	656	18	23	**138**	11	
EML-TR-025	18	19	670	20	22	**137**	13	
EML-TR-025	19	20	840	12	15	**114**	9	
EML-TR-026	0	10	N.A.					
EML-TR-026	10	11	435	19	5	13	9	
EML-TR-026	11	12	279	31	10	18	9	
EML-TR-026	12	13	278	31	8	13	9	
EML-TR-026	13	14	243	32	14	25	8	
EML-TR-026	14	15	446	19	11	39	8	
EML-TR-026	15	16	349	23	13	39	8	
EML-TR-026	16	17	1154	8	6	57	9	876
EML-TR-026	17	18	1112	10	9	88	11	
EML-TR-026	18	19	644	17	20	**115**	11	
EML-TR-026	19	20	595	19	20	**110**	11	
EML-TR-027	0	10	N.A.					
EML-TR-027	10	11	768	15	26	**192**	11	820
EML-TR-027	11	12	843	13	28	**228**	10	
EML-TR-027	12	13	869	13	26	**213**	11	
EML-TR-027	13	14	911	13	27	**234**	11	
EML-TR-027	14	15	896	14	27	**232**	12	
EML-TR-027	15	16	738	16	28	**197**	11	
EML-TR-027	16	17	790	16	27	**203**	12	
EML-TR-027	17	18	779	16	30	**220**	11	
EML-TR-027	18	19	826	16	26	**205**	12	
EML-TR-027	19	20	776	18	29	**213**	12	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-028	0	1	144	63	15	12	9	
EML-TR-028	1	2	155	54	15	16	9	
EML-TR-028	2	3	171	56	15	17	10	
EML-TR-028	3	4	130	49	16	15	6	
EML-TR-028	4	5	352	29	20	61	10	
EML-TR-028	5	6	468	25	21	85	11	
EML-TR-028	6	7	443	27	21	79	12	
EML-TR-029	0	8	N.A.					
EML-TR-029	8	9	217	42	16	26	9	
EML-TR-029	9	10	308	31	18	46	9	
EML-TR-029	10	11	297	34	17	40	11	
EML-TR-029	11	12	324	31	18	49	10	
EML-TR-029	12	13	509	18	16	73	9	509
EML-TR-029	13	14	396	23	19	67	9	
EML-TR-029	14	15	446	23	21	85	10	
EML-TR-029	15	16	404	23	21	77	9	
EML-TR-029	16	17	412	24	21	78	10	
EML-TR-029	17	18	424	23	22	83	9	
EML-TR-035	0	1	N.A.					
EML-TR-035	1	2	561	13	5	23	8	561
EML-TR-035	2	3	441	19	10	33	9	
EML-TR-035	3	4	386	18	16	53	7	
EML-TR-035	4	5	365	18	14	43	7	
EML-TR-035	5	6	419	20	14	51	9	
EML-TR-035	6	7	535	18	14	67	10	
EML-TR-035	7	8	638	15	15	86	10	
EML-TR-035	8	9	722	18	23	**152**	13	772
EML-TR-035	9	10	**1028**	20	33	**320**	19	
EML-TR-035	10	11	938	20	32	**285**	18	
EML-TR-036	0	8	N.A.					
EML-TR-036	8	9	507	22	21	96	11	
EML-TR-036	9	10	514	21	21	99	11	
EML-TR-036	10	11	618	17	18	**102**	10	
EML-TR-036	11	12	683	21	28	**174**	14	
EML-TR-036	12	13	922	23	32	**278**	20	
EML-TR-036	13	14	**1120**	25	33	**343**	26	748
EML-TR-036	14	14	940	28	31	**270**	24	
EML-TR-036	15	16	967	29	31	**278**	26	
EML-TR-036	16	17	747	29	29	**199**	20	
EML-TR-036	17	18	656	30	26	**154**	19	
EML-TR-037	0	1	233	42	14	22	11	
EML-TR-037	1	2	333	29	13	34	10	
EML-TR-037	2	3	310	28	9	18	9	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-037	3	4	361	26	11	28	10	
EML-TR-037	4	5	446	20	10	37	9	
EML-TR-037	5	6	527	17	11	49	10	
EML-TR-037	6	7	746	13	7	43	11	655
EML-TR-037	7	8	693	16	18	**111**	12	
EML-TR-038	0	10	N.A.					
EML-TR-038	10	11	416	19	11	38	7	
EML-TR-038	11	12	383	22	11	35	8	
EML-TR-038	12	13	449	22	15	57	10	
EML-TR-038	13	14	629	11	5	24	7	
EML-TR-038	14	15	387	23	10	29	9	
EML-TR-038	15	16	**1549**	6	4	59	9	
EML-TR-038	16	17	504	16	16	75	7	674
EML-TR-038	17	18	525	14	17	82	6	
EML-TR-038	18	19	558	18	19	96	9	
EML-TR-038	19	20	568	20	20	**100**	11	
EML-TR-039	0	4	N.A.					
EML-TR-039	4	5	126	72	10	5	9	
EML-TR-039	5	6	144	67	13	8	10	
EML-TR-039	6	7	147	59	15	13	9	
EML-TR-039	7	8	120	69	10	4	7	
EML-TR-039	8	9	147	69	11	6	10	
EML-TR-039	9	10	146	60	14	12	8	
EML-TR-039	10	11	146	60	12	9	8	
EML-TR-039	11	12	194	47	14	19	8	
EML-TR-039	12	13	334	28	17	50	8	
EML-TR-039	13	14	428	24	19	71	9	
EML-TR-040	0	1	N.A.					
EML-TR-040	1	2	385	23	8	22	9	
EML-TR-040	2	3	622	14	6	32	8	
EML-TR-040	3	4	505	16	8	35	7	559
EML-TR-040	4	5	437	20	9	30	9	
EML-TR-040	5	6	672	15	10	58	10	
EML-TR-040	6	7	450	21	11	40	9	
EML-TR-040	7	8	709	16	18	**118**	10	
EML-TR-040	8	9	712	16	20	**132**	11	799
EML-TR-040	9	10	900	13	16	**130**	11	
EML-TR-040	10	11	875	16	21	**169**	13	
EML-TR-041	0	1	264	38	10	16	11	
EML-TR-041	1	2	229	40	11	15	10	
EML-TR-041	2	3	289	26	9	19	8	
EML-TR-041	3	4	461	18	6	21	9	
EML-TR-041	4	5	664	16	8	40	12	646

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-041	5	6	628	20	17	92	13	
EML-TR-042	0	8	N.A.					
EML-TR-042	8	9	138	70	12	7	10	
EML-TR-042	9	10	151	72	13	8	11	
EML-TR-042	10	11	153	65	14	11	10	
EML-TR-042	11	12	193	47	16	21	9	
EML-TR-042	12	13	234	42	16	28	10	
EML-TR-042	13	14	295	32	17	41	9	
EML-TR-042	14	15	398	29	18	62	12	
EML-TR-042	15	16	493	22	15	61	10	
EML-TR-042	16	17	436	23	19	74	10	
EML-TR-042	17	18	431	26	20	77	11	
EML-TR-043	0	6	N.A.					
EML-TR-043	6	7	144	63	10	6	9	
EML-TR-043	7	8	136	53	12	9	7	
EML-TR-043	8	9	203	36	14	21	7	
EML-TR-043	9	10	254	37	12	22	10	
EML-TR-043	10	11	315	24	14	36	8	
EML-TR-043	11	12	689	13	9	53	9	689
EML-TR-043	12	13	337	28	18	51	9	
EML-TR-043	13	14	368	24	21	69	8	
EML-TR-043	14	15	413	25	22	78	11	
EML-TR-043	15	16	441	25	23	91	10	
EML-TR-049	0	1	178	44	16	20	8	
EML-TR-049	1	2	159	53	15	15	9	
EML-TR-049	2	3	154	55	16	16	9	
EML-TR-049	3	4	168	53	16	18	9	
EML-TR-049	4	5	233	45	18	31	11	
EML-TR-049	5	6	374	32	20	62	12	
EML-TR-049	6	7	370	27	19	63	10	
EML-TR-050	0	8	N.A.					
EML-TR-050	8	9	**1403**	7	2	23	11	1403
EML-TR-050	9	10	451	26	13	46	13	
EML-TR-050	10	11	339	31	12	27	12	
EML-TR-050	11	12	417	28	12	36	13	
EML-TR-050	12	13	460	26	13	49	12	
EML-TR-050	13	14	669	19	10	55	13	
EML-TR-050	14	15	575	22	18	92	13	
EML-TR-050	15	16	621	21	20	**109**	14	649
EML-TR-050	16	17	576	20	22	**114**	12	
EML-TR-050	17	18	802	20	26	**196**	15	
EML-TR-051	0	3	N.A.					
EML-TR-051	3	4	321	24	7	14	9	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-051	4	5	390	23	9	25	9	
EML-TR-051	5	6	627	18	13	69	11	947
EML-TR-051	6	7	878	16	21	**167**	14	
EML-TR-051	7	8	845	16	20	**159**	13	
EML-TR-051	8	9	**1278**	27	33	**397**	32	
EML-TR-051	9	10	**1139**	23	32	**341**	24	
EML-TR-051	10	11	**1102**	33	29	**287**	32	
EML-TR-051	11	12	760	32	25	**169**	23	
EML-TR-052	0	6	N.A.					
EML-TR-052	6	7	702	16	19	**118**	12	826
EML-TR-052	7	8	777	13	17	**120**	11	
EML-TR-052	8	9	565	17	18	92	9	
EML-TR-052	9	10	479	18	17	73	7	
EML-TR-052	10	11	588	22	21	**112**	12	
EML-TR-052	11	12	929	25	27	**230**	22	
EML-TR-052	12	13	**1052**	28	28	**269**	28	
EML-TR-052	13	14	**1045**	32	30	**285**	31	
EML-TR-052	14	15	990	33	28	**247**	30	
EML-TR-052	15	16	**1136**	26	22	**226**	28	
EML-TR-053	0	9	N.A.					
EML-TR-053	9	10	**1596**	4	1	12	7	1,056
EML-TR-053	10	11	517	14	3	8	7	
EML-TR-053	11	12	378	21	4	8	8	
EML-TR-053	12	13	384	20	5	10	8	
EML-TR-053	13	14	195	38	11	13	7	
EML-TR-053	14	15	203	35	13	20	7	
EML-TR-053	15	16	169	41	12	14	7	
EML-TR-053	16	17	186	39	15	20	7	
EML-TR-053	17	18	256	28	17	36	7	
EML-TR-053	18	19	210	33	15	24	7	
EML-TR-054	0	2	N.A.					
EML-TR-054	2	3	315	21	10	27	6	
EML-TR-054	3	4	324	25	10	26	8	
EML-TR-054	4	5	351	24	12	34	8	
EML-TR-054	5	6	376	22	16	51	8	
EML-TR-054	6	7	413	21	14	48	8	
EML-TR-054	7	8	417	20	16	59	8	
EML-TR-054	8	9	379	25	15	48	9	
EML-TR-054	9	10	391	25	15	49	10	
EML-TR-054	10	11	397	21	18	64	8	
EML-TR-054	11	12	489	20	19	85	10	
EML-TR-055	0	2	N.A.					
EML-TR-055	2	3	242	40	9	11	10	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-055	3	4	267	32	8	13	9	
EML-TR-055	4	5	323	27	6	12	8	
EML-TR-055	5	6	315	27	9	19	8	
EML-TR-055	6	7	264	34	11	21	9	
EML-TR-055	7	8	301	32	13	30	10	
EML-TR-055	8	9	259	31	10	17	7	
EML-TR-055	9	10	286	28	8	17	7	
EML-TR-055	10	11	510	14	5	16	7	578
EML-TR-055	11	12	646	17	4	14	10	
EML-TR-057	0	5	N.A.					
EML-TR-057	5	6	142	54	14	13	7	
EML-TR-057	6	7	125	58	14	11	6	
EML-TR-057	7	8	126	53	15	13	6	
EML-TR-057	8	9	141	50	13	13	7	
EML-TR-057	9	10	159	46	14	16	7	
EML-TR-057	10	11	211	37	16	26	7	
EML-TR-057	11	12	306	25	18	48	7	
EML-TR-057	12	13	357	25	18	58	9	
EML-TR-057	13	14	426	21	20	75	9	
EML-TR-057	14	15	450	24	20	81	10	
EML-TR-063	0	1	N.A.					
EML-TR-063	1	2	212	31	9	14	6	
EML-TR-063	2	3	720	10	4	19	7	662
EML-TR-063	3	4	588	9	4	16	5	
EML-TR-063	4	5	678	10	4	18	6	
EML-TR-063	5	6	454	15	6	21	7	
EML-TR-063	6	7	346	21	9	25	7	
EML-TR-063	7	8	566	13	6	28	7	
EML-TR-063	8	9	412	20	8	24	8	
EML-TR-063	9	10	430	18	8	29	7	
EML-TR-063	10	11	434	21	14	54	8	
EML-TR-064	0	1	391	15	4	9	6	
EML-TR-064	1	2	503	17	4	10	9	503
EML-TR-064	2	3	313	16	4	5	5	
EML-TR-065	0	10	N.A.					
EML-TR-065	10	11	907	16	26	**223**	14	996
EML-TR-065	11	12	895	17	26	**219**	16	
EML-TR-065	12	13	823	18	27	**210**	15	
EML-TR-065	13	14	862	18	28	**224**	15	
EML-TR-065	14	15	846	18	28	**226**	14	
EML-TR-065	15	16	888	18	29	**244**	15	
EML-TR-065	16	17	896	17	26	**223**	14	
EML-TR-065	17	18	**1369**	18	26	**334**	26	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-065	18	19	1257	20	30	**346**	27	
EML-TR-065	19	20	1221	23	34	**387**	30	
EML-TR-066	0	1	537	16	10	45	8	537
EML-TR-066	1	2	121	59	14	10	7	
EML-TR-066	2	3	112	50	14	11	5	
EML-TR-066	3	4	99	53	13	8	5	
EML-TR-066	4	5	127	32	11	10	4	
EML-TR-066	5	6	455	16	8	30	6	
EML-TR-066	6	7	649	11	6	29	7	649
EML-TR-066	7	8	136	62	13	10	8	
EML-TR-066	8	9	573	19	12	59	10	596
EML-TR-066	9	10	618	22	14	76	13	
EML-TR-067	0	10	N.A.					
EML-TR-067	10	11	197	46	16	22	9	
EML-TR-067	11	12	204	44	16	24	9	
EML-TR-067	12	13	245	35	18	35	8	
EML-TR-067	13	14	256	35	17	35	9	
EML-TR-067	14	15	331	31	18	51	10	
EML-TR-067	15	16	361	26	19	59	9	
EML-TR-067	16	17	393	26	19	66	10	
EML-TR-067	17	18	380	26	19	64	9	
EML-TR-067	18	19	390	25	19	66	9	
EML-TR-067	19	20	376	25	19	63	9	
EML-TR-068	0	6	N.A.					
EML-TR-068	6	7	325	21	12	32	7	
EML-TR-068	7	8	356	22	13	38	8	
EML-TR-068	8	9	312	21	12	29	7	
EML-TR-068	9	10	334	21	11	30	7	
EML-TR-068	10	11	322	25	12	32	7	
EML-TR-068	11	12	326	24	16	45	7	
EML-TR-068	12	13	379	23	20	66	8	
EML-TR-068	13	14	435	23	22	86	9	
EML-TR-068	14	15	547	24	27	**133**	13	667
EML-TR-068	15	16	787	23	27	**197**	17	
EML-TR-069	0	6	N.A.					
EML-TR-069	6	7	133	35	15	15	5	
EML-TR-069	7	8	137	31	15	17	4	
EML-TR-069	8	9	117	32	13	11	4	
EML-TR-069	9	10	176	23	15	21	4	
EML-TR-069	10	11	238	18	9	17	4	
EML-TR-069	11	12	447	13	7	24	6	
EML-TR-069	12	13	348	19	11	33	7	
EML-TR-069	13	14	456	20	18	71	9	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-069	14	15	895	10	11	85	9	895
EML-TR-069	15	16	380	20	18	59	8	
EML-TR-070	0	6	N.A.					
EML-TR-070	6	7	365	30	9	23	11	
EML-TR-070	7	8	338	30	14	38	10	
EML-TR-070	8	9	457	23	11	41	11	
EML-TR-070	9	10	426	23	10	34	10	
EML-TR-070	10	11	484	21	12	49	10	
EML-TR-070	11	12	520	20	14	61	10	576
EML-TR-070	12	13	536	19	12	52	10	
EML-TR-070	13	14	566	20	17	84	11	
EML-TR-070	14	15	584	20	16	84	11	
EML-TR-070	15	16	675	18	16	97	12	
EML-TR-071	0	1	161	43	12	12	6	
EML-TR-071	1	2	116	42	12	9	5	
EML-TR-071	2	3	129	44	10	8	5	
EML-TR-071	3	4	105	38	14	11	4	
EML-TR-072	0	6	N.A.					
EML-TR-072	6	7	373	24	13	40	9	
EML-TR-072	7	8	318	25	10	22	8	
EML-TR-072	8	9	300	26	13	30	8	
EML-TR-072	9	10	416	19	13	48	8	
EML-TR-072	10	11	442	19	17	64	9	
EML-TR-072	11	12	438	20	16	63	9	
EML-TR-072	12	13	496	18	21	97	9	
EML-TR-072	13	14	509	17	22	**103**	9	518
EML-TR-072	14	15	528	14	21	**102**	7	
EML-TR-072	15	16	454	18	24	100	8	
EML-TR-078	0	2	N.A.					
EML-TR-078	2	3	280	36	11	21	10	
EML-TR-078	3	4	170	48	15	17	8	
EML-TR-078	4	5	149	48	14	14	7	
EML-TR-078	5	6	227	39	15	24	9	
EML-TR-078	6	7	297	30	13	30	9	
EML-TR-078	7	8	480	21	17	72	10	
EML-TR-078	8	9	600	20	22	**117**	12	667
EML-TR-078	9	10	658	19	22	**134**	11	
EML-TR-078	10	11	638	19	24	**143**	12	
EML-TR-078	11	12	773	20	27	**197**	14	
EML-TR-079	0	6	N.A.					
EML-TR-079	6	7	268	34	9	13	9	
EML-TR-079	7	8	277	33	7	10	9	
EML-TR-079	8	9	321	29	7	15	9	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-079	9	10	373	27	6	14	10	
EML-TR-079	10	11	349	21	8	20	7	
EML-TR-079	11	12	665	13	6	33	9	
EML-TR-079	12	13	495	21	16	70	10	564
EML-TR-079	13	14	531	21	15	71	11	
EML-TR-079	14	15	483	20	15	64	9	
EML-TR-079	15	16	500	20	20	88	10	500
EML-TR-080	0	7	N.A.					
EML-TR-080	7	8	182	51	12	11	9	
EML-TR-080	8	9	177	45	13	15	8	
EML-TR-080	9	10	234	38	15	26	9	
EML-TR-080	10	11	302	28	14	34	8	
EML-TR-080	11	12	322	28	14	37	8	
EML-TR-080	12	13	405	23	19	68	9	
EML-TR-080	13	14	388	24	19	63	9	
EML-TR-080	14	15	321	27	19	52	8	
EML-TR-080	15	16	326	26	14	37	9	
EML-TR-080	16	17	353	28	19	58	10	
EML-TR-081	0	1	113	73	13	7	8	
EML-TR-081	1	2	125	62	14	9	8	
EML-TR-081	2	3	140	54	14	13	7	
EML-TR-081	3	4	141	50	16	15	7	
EML-TR-081	4	5	147	44	16	17	6	
EML-TR-081	5	6	170	38	17	22	7	
EML-TR-082	0	4	N.A.					
EML-TR-082	4	5	62	65	15	5	4	
EML-TR-082	5	6	83	76	13	5	6	
EML-TR-082	6	7	79	75	13	4	6	
EML-TR-082	7	8	86	66	15	8	6	
EML-TR-082	8	9	82	62	13	7	5	
EML-TR-082	9	10	179	34	18	26	6	
EML-TR-082	10	11	231	30	18	34	7	
EML-TR-082	11	12	304	23	20	53	7	
EML-TR-082	12	13	432	22	23	91	10	
EML-TR-082	13	14	418	21	22	83	9	
EML-TR-083	0	1	117	38	12	9	4	
EML-TR-083	1	2	118	37	11	9	4	
EML-TR-083	2	3	133	32	13	13	4	
EML-TR-083	3	4	89	43	11	7	4	
EML-TR-083	4	5	91	43	10	5	4	
EML-TR-083	5	6	109	39	12	9	4	
EML-TR-083	6	7	123	32	11	11	4	
EML-TR-083	7	8	123	38	11	9	4	

HoleID	From	To	TREO ppm	% HREO	% MREO	NdPr ppm	DyTb ppm	Int
EML-TR-083	8	9	177	29	9	11	5	
EML-TR-084	0	1	N.A.					
EML-TR-084	1	2	205	41	8	7	9	
EML-TR-084	2	3	214	39	8	8	9	
EML-TR-084	3	4	189	43	8	7	8	
EML-TR-084	4	5	202	47	11	12	10	
EML-TR-084	5	6	220	45	15	24	10	
EML-TR-084	6	7	257	26	18	38	7	
EML-TR-084	7	8	212	37	14	22	8	
EML-TR-084	8	9	182	42	14	17	8	
EML-TR-084	9	10	154	51	14	14	8	
EML-TR-084	10	11	146	48	14	15	7	

Appendix 4: Auger drill-hole location

Hole ID	East	North	RL (m)	Depth	Azimuth	Dip	Tenement
EML-TR-001	193913.28	9184807.52	107.81	6	0	-90	880.184/2016
EML-TR-002	194797.42	9184792.72	121.22	10	0	-90	880.184/2016
EML-TR-007	188419.61	9183978.33	118.08	8	0	-90	880.184/2016
EML-TR-008	189201.69	9183986.57	125.28	15	0	-90	880.184/2016
EML-TR-009	189985.24	9184015.87	131.52	17	0	-90	880.184/2016
EML-TR-010	190807.85	9183996.67	149.63	7	0	-90	880.184/2016
EML-TR-011	191600.67	9183989.87	170.44	6	0	-90	880.184/2016
EML-TR-012	192406.83	9183992.03	176.58	17	0	-90	880.184/2016
EML-TR-013	193221.55	9183997.12	123.11	20	0	-90	880.184/2016
EML-TR-014	194021.32	9183981.42	122.86	20	0	-90	880.184/2016
EML-TR-015	194823.94	9183993.7	118.93	11	0	-90	880.184/2016
EML-TR-021	188427.26	9183198.76	125.83	10	0	-90	880.184/2016
EML-TR-022	189208.42	9183194.85	174.36	10	0	-90	880.184/2016
EML-TR-023	189977.35	9183212.51	173	9	0	-90	880.184/2016
EML-TR-025	191657.67	9183157.31	198.35	20	0	-90	880.184/2016
EML-TR-026	192396.98	9183179.7	127.7	20	0	-90	880.184/2016
EML-TR-027	193200.32	9183114.49	134.43	20	0	-90	880.184/2016
EML-TR-028	194065.48	9183207.29	116.01	7	0	-90	880.184/2016
EML-TR-029	194825.94	9183137.56	119.21	18	0	-90	880.184/2016
EML-TR-035	188396.29	9182401.25	153.41	11	0	-90	880.184/2016
EML-TR-036	189186.54	9182362.37	167.61	18	0	-90	880.184/2016
EML-TR-037	190009.27	9182446.25	143.32	8	0	-90	880.184/2016
EML-TR-038	190785.83	9182397.52	130.79	20	0	-90	880.184/2016
EML-TR-039	191531.61	9182407.63	120.53	14	0	-90	880.184/2016
EML-TR-040	192393.74	9182412.38	174.8	11	0	-90	880.184/2016
EML-TR-041	193198.71	9182416.39	166.63	6	0	-90	880.184/2016
EML-TR-042	194034.59	9182348.07	127.18	18	0	-90	880.184/2016

Hole ID	East	North	RL (m)	Depth	Azimuth	Dip	Tenement
EML-TR-043	194809.34	9182400.79	121.55	16	0	-90	880.184/2016
EML-TR-049	188407.43	9181598.5	135.67	7	0	-90	880.184/2016
EML-TR-050	189205.18	9181589.9	138.7	18	0	-90	880.184/2016
EML-TR-051	189949.61	9181649.88	143.96	12	0	-90	880.184/2016
EML-TR-052	190805.51	9181598.3	137.28	16	0	-90	880.184/2016
EML-TR-053	191615.02	9181586.31	227.14	19	0	-90	880.184/2016
EML-TR-054	192363.46	9181523.85	174.01	12	0	-90	880.184/2016
EML-TR-055	193216.98	9181607.76	168.46	12	0	-90	880.184/2016
EML-TR-057	194816.53	9181603.92	127.17	15	0	-90	880.184/2016
EML-TR-063	188407.15	9179989.16	135.58	11	0	-90	880.184/2016
EML-TR-064	188402.2	9180787.55	139.9	3	0	-90	880.184/2016
EML-TR-065	189223.73	9180820.92	171.05	20	0	-90	880.184/2016
EML-TR-066	190056.19	9180746.24	121.26	10	0	-90	880.184/2016
EML-TR-067	190812.97	9180784.29	141.28	20	0	-90	880.184/2016
EML-TR-068	191601.07	9180799.69	175.08	16	0	-90	880.184/2016
EML-TR-069	192405.24	9180792.24	138.47	16	0	-90	880.184/2016
EML-TR-070	193212.02	9180795.78	138.84	16	0	-90	880.184/2016
EML-TR-071	194003.83	9180805.7	223.41	4	0	-90	880.184/2016
EML-TR-072	194774.97	9180815.52	141.48	16	0	-90	880.184/2016
EML-TR-078	189283.09	9180050.76	135.57	12	0	-90	880.184/2016
EML-TR-079	190018.46	9180035.76	145.96	16	0	-90	880.184/2016
EML-TR-080	190792.01	9180036.97	143.53	17	0	-90	880.184/2016
EML-TR-081	191647.74	9179997.75	124.41	6	0	-90	880.184/2016
EML-TR-082	192321.45	9179996.27	123.77	14	0	-90	880.184/2016
EML-TR-083	193241.35	9180060.83	125.05	9	0	-90	880.184/2016
EML-TR-084	194012.01	9180008.13	186.08	11	0	-90	880.184/2016

Appendix 5

The following Table and Sections are provided to ensure compliance with JORC Code (2012 Edition).

JORC (2012) Table 1 – Section 1: Sampling Techniques and Data for auger hole drilling

Item	JORC code explanation	Comments
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. • Include reference to measures taken to ensure sample representativity and the appropriate calibration 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 drilling was	• Exploration results are based on auger drilling conducted by BCM´s exploration team. • The data presented is based on the assay of soils and saprolite by auger drilling at 1m sample intervals. • Sampling was supervised by a BCM geologist or field assistants. • Every 1-metre sample was collected in a raffia bag in the field and transported to the exploration shed to be dried in the sun, prior to homogenisation. • Samples were homogenised and subsequently riffle split with about 2 kg sent to SGS for analysis and a similar amount stored. • 1 certified blank sample, 1 certified reference material (standard) samples and 1 field duplicate sample were inserted into the sample sequence for each 25 samples.

Item	JORC code explanation	Comments
	used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	
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).	• Auger drilling was completed by a hand held-mechanical auger with a 3" auger bit. The drilling is an open hole, meaning there is a significant chance of contamination from surface and other parts of the auger hole. Holes are vertical and not oriented.
Drill Sample Recovery	• Method of recording and assessing core and chip sample recoveries and results assessed. • Measures taken to maximise sample recovery and ensure representative nature of the samples. • Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to	• No recoveries are recorded. • The operator observes the volume of each metre and notes any discrepancy. • No relationship is believed to exist between recovery and grade.

Item	JORC code explanation	Comments
	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 in nature. Core (or costean, channel, etc) photography. • The total length and percentage of the relevant intersections logged.	• All holes were logged by BCM geologists or field technicians, detailing the colour, weathering, alteration, texture and any geological observations. Care is taken to identify transported cover from in-situ saprolite/clay zones and the moisture content. Logging was done to a level that would support a Mineral Resource Estimate. • Qualitative logging with systematic photography of the stored box. • The entire auger hole is logged.
Sub-Sampling Techniques and Sampling Procedures	• If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all sub-sampling stages to maximise representativity of samples.	• Auger sampling procedure is completed in the exploration shed in Apui. • The entire one metre sample is bagged on site, in a raffia bag which is transported to the exploration shed, where it is naturally dried prior to homogenisation, then quartered to about 1kg to go to SGS and another 1kg to store on site. • Sample preparation for the auger samples was conducted at SGS Vespasiano (greater Belo Horizonte) comprising oven drying, crushing of entire sample to 75% < 3mm followed by rotary splitting and pulverisation of 250 to 300 grams at 95% minus 150# • The <3mm rejects and the 250-300 grams pulverised sample were returned to BCM for storage. • Only the last 10 metres were sent to assay, the samples above will be send if required.

<table>
<tr><th>Item</th><th>JORC code explanation</th><th>Comments</th></tr>
<tr><td></td><td>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.
Whether sample sizes are appropriate to the grain size of the material being sampled.</td><td></td></tr>
<tr><td>Quality of Assay Data and Laboratory Tests</td><td>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.
Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established</td><td>1 blank sample, 1 certified reference material (standard) sample and 1 field duplicate sample were inserted by BBX into each 25-sample sequence.
Standard laboratory QA/QC procedures were followed, including inclusion of standard, duplicate and blank samples.
The assay results of the standards fall within acceptable tolerance limits and no material bias is evident.
The assay technique used for REE was Lithium Metaborate Fusion ICP-MS (SGS code ICP95A and IMS95A). This is a recognised industry standard analysis technique for REE suite and associated elements. Elements analysed at ppm levels:
<table>
<tr><td>Ba</td><td>Ce</td><td>Cr</td><td>Cs</td><td>Dy</td><td>Er</td><td>Eu</td><td>Ga</td></tr>
<tr><td>Gd</td><td>Hf</td><td>Ho</td><td>La</td><td>Lu</td><td>Nb</td><td>Nd</td><td>Pr</td></tr>
<tr><td>Rb</td><td>Sm</td><td>Sn</td><td>Sr</td><td>Ta</td><td>Tb</td><td>Th</td><td>Tm</td></tr>
<tr><td>U</td><td>V</td><td>W</td><td>Y</td><td>Yb</td><td>Zr</td><td>Zn</td><td>Co</td></tr>
<tr><td>Cu</td><td>Ni</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
The sample preparation and assay techniques used are industry standard and provide total analysis.
The SGS laboratory used for the RRE assays is ISO 9001 and 14001 and 17025 accredited.
Analytical standard for REE ITAK-705 was used as CRM material in the batches sent to SGS.
The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident.</td></tr>
</table>

Item	JORC code explanation	Comments
		• The blanks used contain some REE, with critical elements Ce, Nd, Dy and Y present in small quantities. • Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident. • Laboratory inserted standards, blanks and duplicates were analysed as per industry standard practice. There is no evidence of bias from these results.
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.	• Apart from the routine QA/QC procedures by the Company and the laboratory, there was no other independent or alternative verification of sampling and assaying procedures. • Analytical results for REE were supplied digitally, directly from the SGS laboratory in Vespasiano to the BCMs Exploration Manager in Rio de Janeiro. • No twinned holes were used. • Geological data was logged onto paper and transferred to Excel spreadsheets at end of the day and then transferred into the drill hole database. Microsoft Access is used for database storage and management and incorporates numerous data validation and data integrity checks. All assay data is imported directly into the Microsoft Access database. • No adjustments were made to the data. • All REE assay data received from the laboratory in element form is unadjusted for data entry. • Conversion of elements analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors. (Source:https://www.jcu.edu.au/advanced-analytical-centre/resources/element-to-stoichiometric-oxide-conversion-factors).

Element ppm	Conversion Factor	Oxide Form
Ce	1.2284	CeO2
Dy	1.1477	Dy2O3
Er	1.1435	Er2O3
Eu	1.1579	Eu2O3
Gd	1.1526	Gd2O3

<table>
<tr><th>Item</th><th>JORC code explanation</th><th>Comments</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Ho</td><td>1.1455</td><td>Ho2O3</td></tr>
<tr><td>La</td><td>1.1728</td><td>La2O3</td></tr>
<tr><td>Lu</td><td>1.1371</td><td>Lu2O3</td></tr>
<tr><td>Nd</td><td>1.1664</td><td>Nd2O3</td></tr>
<tr><td>Pr</td><td>1.2082</td><td>Pr6O11</td></tr>
<tr><td>Sm</td><td>1.1596</td><td>Sm2O3</td></tr>
<tr><td>Tb</td><td>1.1762</td><td>Tb4O7</td></tr>
<tr><td>Tm</td><td>1.1421</td><td>Tm2O3</td></tr>
<tr><td>Y</td><td>1.2699</td><td>Y2O3</td></tr>
<tr><td>Yb</td><td>1.1387</td><td>Yb2O3</td></tr>
</table>
Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations are used for compiling REO into their reporting and evaluation groups:
TREO (Total Rare Earth Oxide) = La2O3 + CeO2 + Pr6O11 + Nd2O3 + Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Y2O3 + Lu2O3
LREO (Light Rare Earth Oxide) = La2O3 + CeO2 + Pr6O11 + Nd2O3
HREO (Heavy Rare Earth Oxide) = Sm2O3 + Eu2O3 + Gd2O3 + Tb4O7 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Y2O3 + Lu2O3
CREO (Critical Rare Earth Oxide) = Nd2O3 + Eu2O3 + Tb4O7 + Dy2O3 + Y2O3
(From U.S. Department of Energy, Critical Material Strategy, December 2011)
MREO (Magnetic Rare Earth Oxide) = Nd2O3 + Pr6O11 + Tb4O7 + Dy2O3
NdPr = Nd2O3 + Pr6O11
DyTb = Dy2O3 + Tb4O7
In elemental from the classifications are:
TREE: La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Tb+Lu+Y
HREE: Sm+Eu+Gd+Tb+Dy+Ho+Er+Tm+Tb+Lu+Y
CREE: Nd+Eu+Tb+Dy+Y
LREE: La+Ce+Pr+Nd
</td></tr>
</table>

Item	JORC code explanation	Comments
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.	• The UTM WGS84 zone 21S grid datum is used for current reporting. The drill holes collar coordinates for the holes reported are currently controlled by hand-held GPS.
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.	• Auger holes were over 200m to 800m apart, designed for testing iREE mineralization over the mapped felsic volcanics. • The data spacing and distribution is sufficient to establish the level of REE elements present in the target area and its continuity along the regolith profile appropriate for a Mineral Resource. • No sample composition was applied.
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	• The location and depth of the sampling is appropriate for the deposit type. • Relevant REE values are compatible with the exploration model for ionic REEs. • No relationship between mineralisation and drilling orientation is known at this stage.

Item	JORC code explanation	Comments
	mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	• The measures taken to ensure sample security.	• The auger samples in sealed plastic bags were sent directly to SGS by bus and then airfreight. The Company has no reason to believe that sample security poses a material risk to the integrity of the assay data.
Audit or Reviews	• The results of any audits or reviews of sampling techniques and data.	• The sampling techniques and data have been reviewed by the Competent Person and are found to be of industry standard.

JORC (2012) Table 1 - Section 2: Reporting of Exploration Results

Criteria	JORC code explanation	Commentary
Mineral Tenement and Land Tenure Status	• Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical 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.	• The EMA and EMA EAST leases are 100% owned by BCM with no issues in respect to native title interests, historical sites, wilderness or national park and environmental settings. • The company is not aware of any impediment to obtain a licence to operate in the area.
Exploration done by Other Parties	• Acknowledgment and appraisal of exploration by other parties.	• No exploration by other parties has been conducted in the region.
Geology	• Deposit type, geological setting and style of mineralisation.	• The REE mineralisation at EMA is contained within the tropical lateritic weathering profile developed on top of felsic rocks, rhyolites as per the Chinese deposits. • The REE mineralisation is concentrated in the weathered profile where it has dissolved from the primary mineral, such as monazite and xenotime, then adsorbed on to the neo-forming fine particles of aluminosilicate clays (e.g. kaolinite, illite, smectite). • This adsorbed iREE is the target for extraction and production of REO.
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	• Auger locations and diagrams are presented in this announcement. • Details are tabulated in the announcement.

Criteria	JORC code explanation	Commentary
	• 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.	
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.	• Weighted averages were calculated for all intercepts. • 500ppm TREO cut-off grade was applied to define the relevant intersections. • No metal equivalent values reported.
Relationship between mineralization widths and intercepted 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	• Significant values of REE were reported for the auger samples. • Mineralisation orientation is not known at this stage, although assumed to be flat. • The downhole depths are reported, true widths are not known at this stage.

Criteria	JORC code explanation	Commentary
	effect (eg 'down hole length, true width not known').	
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.	• Maps and tables of the soil auger holes location and target location are inserted.
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.	• Relevant REE mineralisation with grades higher than 500ppm TREO in auger holes was reported with confirmation of IAC (Ionic Adsorbed Clay) type mineralisation obtained in the EMD-017 and TR-016 samples in this same geological setting.
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.	• No other significant exploration data has been acquired by the Company.
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.	• Regional Specific Densities collection for the upcoming MRE. • Additional metallurgical test work with ammonium sulphate leach.