

Minbos Resources

Africa Down Under

August 2018

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Competent Persons

The information in this Presentation that relates to Exploration Results and Data Quality is based on, and fairly represents, information and supporting documentation prepared by Rebecca Morgan, who is a member of the Australian Institute of Geoscientists. Miss Morgan was previously a fulltime employee of Minbos (until February 2018) and is a consultant to Minbos. Miss Morgan has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity she is undertaking 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'. Miss Morgan consents to the inclusion in this Presentation of the matters based on her information in the form and context in which it appears.

The information in this release that relates to mineralogy and metallurgy results as provided to Minbos by the Australian Nuclear Science and Technology Organisation (ANSTO), has been reviewed by Mr Gavin Beer who is a Member of The Australasian Institute of Mining and Metallurgy and a Chartered Professional. Mr Beer is a Consulting Metallurgist with sufficient experience relevant to the activity which he is undertaking to be recognised a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" and as a "Qualified Person" under National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101"). Mr Beer consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

African Earth



Cabinda Phosphate Project (50%) is located in the Cabinda Province of Angola. The Cacata deposit has the potential to change agriculture in Angola.



Ambato Rare Earth Project is located on the eastern side of Madagascar. Despite its prospectivity and an established regulatory framework Ambato has remained undrilled.

Minbos has been active in Africa for 10 years and is now drilling rare earths (REE) in Madagascar.



Ambato REE Project – a Rare Opportunity?

Located in Central Madagascar the project hosts multiple Bastnaesite occurrences all undrilled.

The Ankazohambo prospect has returned rock chip samples up to 41% TREO¹ over a strike of 2.4km with mineralized widths of 50m in trenches.

90% of the REE in surface samples occurs as Bastnaesite grains which are highly liberated².

Potential for large tonnages, high grades and easy beneficiation at high recovery to saleable concentrate



Coarse Bastnaesite Grains

¹ASX Announcement 4th May 2018: Encouraging Mineralogy Results at Ambato.

²ASX Announcement 29 March 2018 Minbos enters option to purchase Rare Earths Project. Grades are expressed as Total Rare Earth Oxides TREO. The Company confirms that it is not aware of any new information or data that materially affects these exploration results and that no material change in the results has occurred.



Characteristics of Giant REE Deposits

Large REE deposits are related to alkaline igneous activity – either carbonatites or syenites.

Hydrothermal activity may result in redistribution of the REE and increases in grade.

Weathering and supergene enrichment has played a role in the formation of the highest grade deposits." (Smith et al 2016)



The REE occurrences of the Ambato region are closely associated to an alkaline complex composed of syenite and granite. Post magmatic hydrothermal process have resulted in secondary bastnaesite occurrences. The main bastnaesite occurrences are associated with syenites and strong laterization. (Rasoamalala et al 2014)

Smith et al., 2016. From mantle to critical zone: A Review of large and giant sized deposits of the rare earth elements. Geoscience Frontiers 7, 315-334. Rasoamalala et al., 2014. Geology of bastnaesite and monazite deposits in the Ambatofinandrahana area, central part of Madagascar: An overview. Journal of African Earth Sciences 94, 128-140.

Ambato undrilled prospects







Ankazahombo Laterite and Syenite intrusion





Ankazahambo Radiometric Anolmaly





Ankazahambo Bastnaesite Samples





Other Ambato Drilling Prospects





Drill Program Six diamond holes completed which have all intercepted REE bearing laterites. At least another 15 holes are planned to cover approximately 800m by 400m of the Ankazohambo radiometric anomaly.

Metallurgical Test Work regimes are being prepared to fast track core samples into a process flowsheet for beneficiation into REE concentrate.

Funding The company has completed a placement to new investors and a rights issue supported by all the major shareholders to fund these programs

Angola the company continues to work to capture value from the Cabinda Phosphate project for all stakeholders.

Updates are expected on all programs in the next month.

Thank You





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