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10 May 2023

Roadside Drilling Recommences at Murraydium Rare Earths Project

- Reconnaissance Roadside Air Core drilling has recommenced in the Bordertown Block of EL6717 in South Australia
- Targeting the same shallow Loxton Parilla Sands intersected in the first phase of the drilling which encountered encouraging XRF results of >1,000ppm combined Nd+Pr (refer to ASX Announcement dated 1 May 2023)
- Results occur within the same formation that hosts REEs in neighbouring Australian Rare Earths Ltd (ASX:AR3) Koppamurra Resource of 101mt @ 818 ppm TREO (Total Rare Earth Oxide) and their exciting Frances Prospect¹

Mr Brian Thomas, Lanthanein Technical Director commented “We are very excited with the commencement of the reconnaissance roadside drilling programme in the Bordertown Block of the Murraydium Project in the Southeast of South Australia. Following on from the highly encouraging XRF results in the first phase of the roadside programme we are looking forward to getting the results from this next phase of the drilling. Previous work done in the region by AR3 has outlined an extensive mineralised system where shallow near surface exploration has the potential to delineate significant JORC Resources of sand hosted REEs.”



Image 1: Roadside Drilling Team on Bangham Road south of Bordertown

¹ JORC resource comprising 1Mt @ 894ppm TREO (Measured), 63Mt @ 839ppm TREO (Indicated) and 38Mt @ 782ppm TREO (Inferred) (17 April 2023)

The Murraydium Project is located in the south-eastern region of South Australia within EL 6717 which includes four tenement blocks with a total area of 872 km² within the Murray Basin. The region is seeing continued activity in the exploration for ionic hosted REE minerals following on from the success of Australian Rare Earths (ASX:AR3) at their 100% owned Koppamurra Project, host to a total mineral resource of 101 Mt @ 818 ppm TREO, plus other successes with Resource Base Ltd (ASX:RBX) announcing a maiden Mineral Inferred Resource Estimate of 21Mt @ 767 ppm TREO at their Mitre Hill Deposit in the Murray Basin in Victoria (Figure 1).

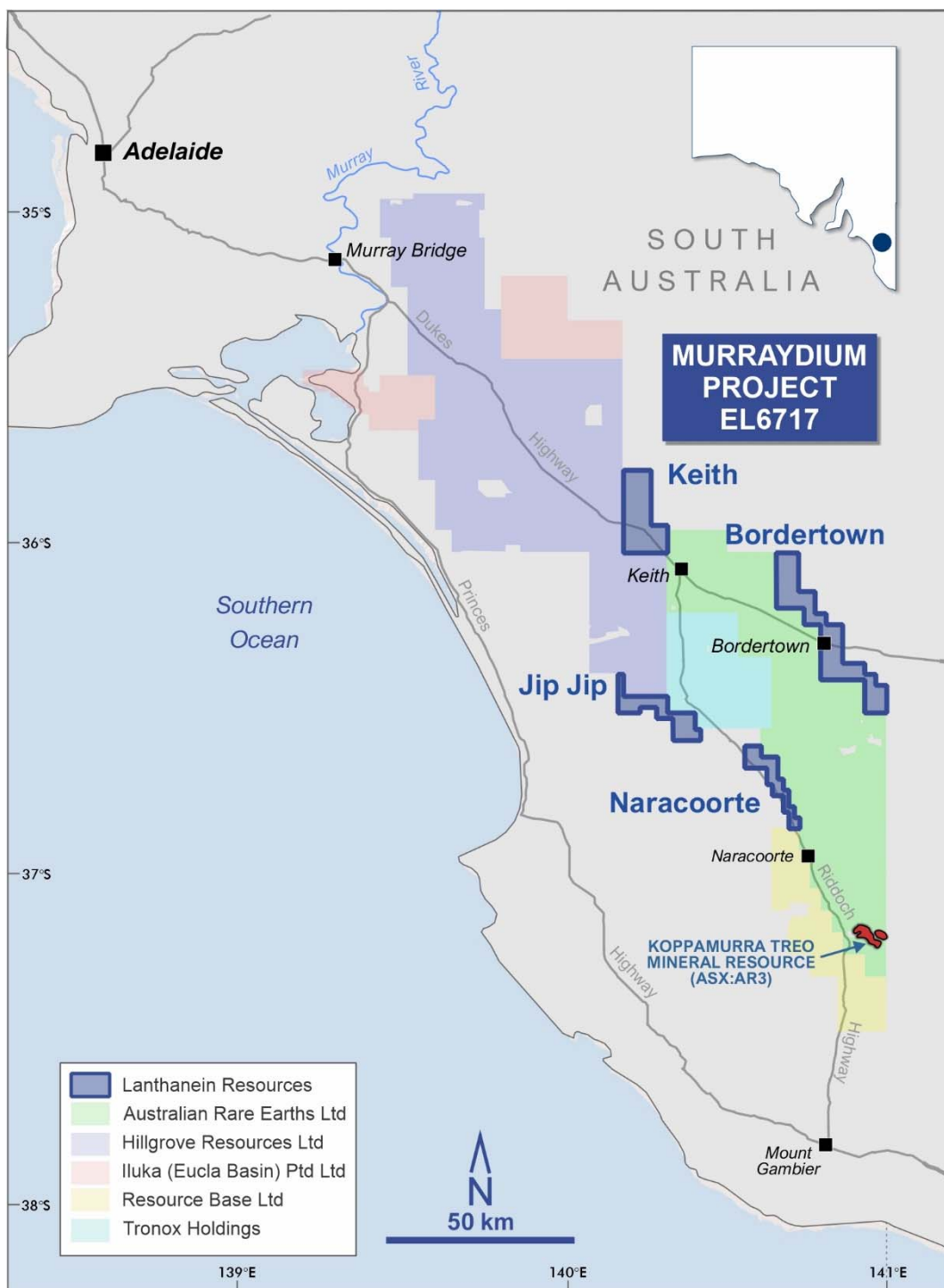


Figure 1: Location Plan of Murraydium Project

The project area forms part of an extensive Tertiary strand plain comprising a series of sandstone-dominant fluvial and beach-dune strand complexes. The sand units commonly form undulating sand ridges interspersed with low lying areas of clay, mud and sand. The Koppamurra Deposit of REE-bearing clays that contain the Yellow Tail and Red Tail deposits occurs within the lower part of the Loxton-Parilla Sand unit (Figure 2). The Loxton-Parilla Sand is a very extensive unit widely distributed across the southern Murray Basin. Extensive areas of Loxton-Parilla Sand are exposed at surface within the Bordertown Block where it typically forms rolling terrain of low sandy hills and ridges.

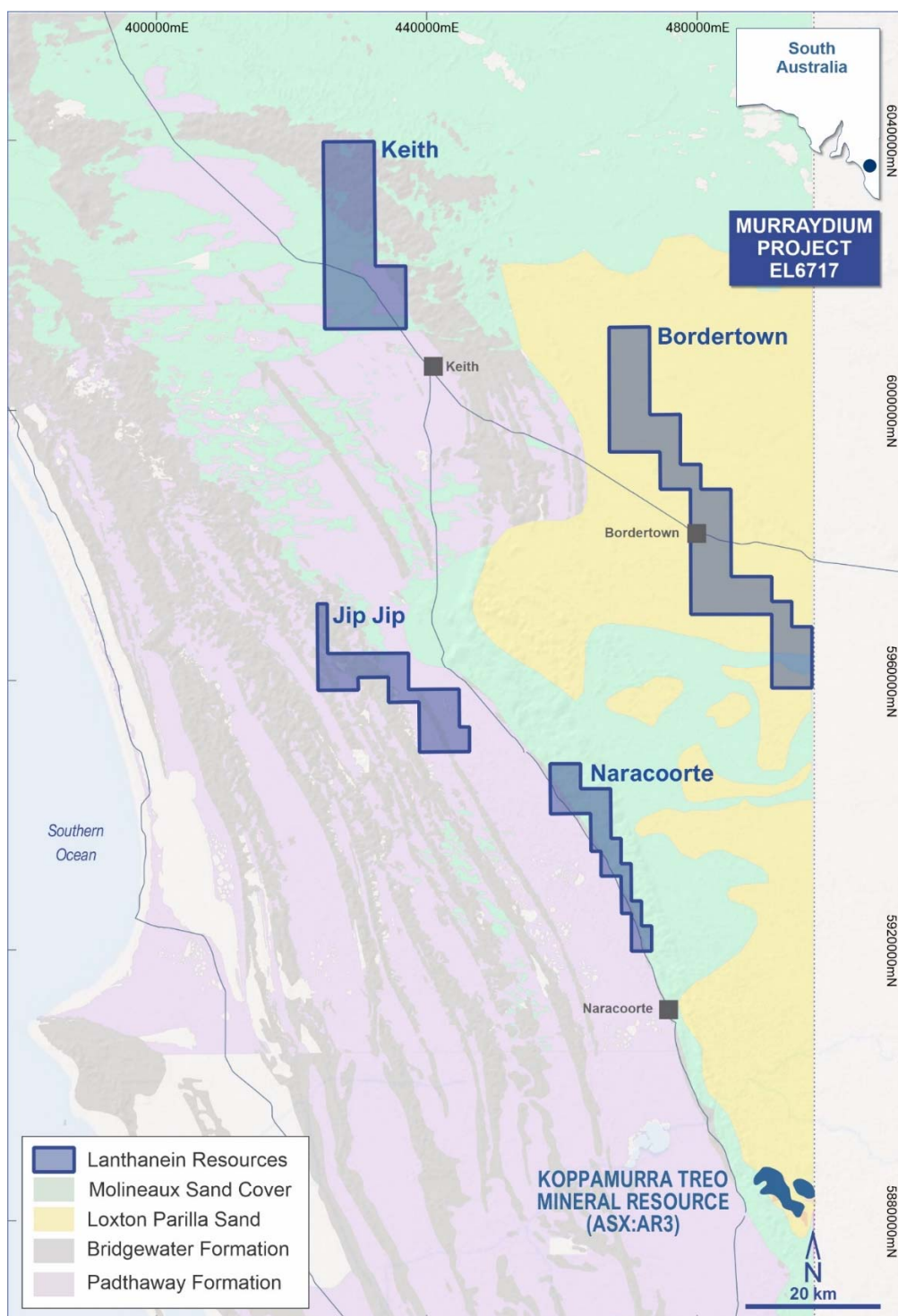


Figure 2: Plan showing extent of Loxton Parilla Sands in the South East of South Australia

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

For additional information please visit our website at www.lanthanein.com

LANTHANEIN RESOURCES LTD**Competent Person's Statement**

The information in this report that relates to Geophysical Exploration Results is based on information compiled by Peter Swiridiuk - Member of the Aust. Inst. of Geoscientists. Peter Swiridiuk is a Technical Consultant and Non-Executive Director for Lanthanein Resources. Peter Swiridiuk has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter Swiridiuk consents to the inclusion in the report of the matters based on the information in the form and context in which it appears. Additionally, Mr Swiridiuk confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.