

## LOCKIER RANGE REE/LITHIUM PROJECT TENEMENTS GRANTED GASCOYNE, WESTERN AUSTRALIA

### Highlights

- Lockier Range tenement E09/2649 granted
- The Mt Yaragner REE Project<sup>1</sup> with the Lockier Range tenement has:
  - Very high tenor REE in stream sediments and soils
  - Large scale Th anomalies comparable with the nearby Yangibana (Hastings Technology (“HAS”)) and Mick Well (Kingfisher Mining (“KFM”)) Rare Earth Projects
  - Historical REE grades up to:
    - 14% Total Rare Earth Elements (“TREE”) in stream sediment sample
    - 3.36% Nd+Pr in stream sediment samples
    - 3.8% TREE in soil samples
- Thorium radiometric signatures from recently acquired radiometrics show clear comparisons to nearby Yangibana REE development project (Hastings Technology Metals Ltd) and Yin REE Project (Dreadnought Resources Ltd)<sup>2</sup>
- Extensive thorium anomalies within a 9km by 3km area at Mt Yaragner<sup>2</sup>
- Anomalies coincident with high tenor ( >1% Total Rare Earth Oxide assays “TREO”) from historic soil and stream sediment sampling.<sup>2</sup>

**Odessa Minerals Limited (ASX:ODE) (“Odessa” or the “Company”)** is pleased to announce that the 125 km<sup>2</sup> Lockier Range Project tenement (E09/2649) has now been granted by the DMIRS to Milford Resources Pty Ltd. Per the Lockier Range Project sale agreement, Odessa subsidiary OD4 Noonie Pty Ltd will now be able to acquire E09/2649 from Milford, subject to Ministerial approval.

Lockier Range sits immediately to the north of the Yinnetharra REE/Li Project which was recently acquired by Minerals 260 Ltd (ASX:MI6) on 27 March 2023.

The Lockier Project also sits 65km south-west of Hastings Technologies Metals Ltd’s (ASX:HAS) Yangibana REE project, 55km south-west of Dreadnought Resources (ASX:DRE) Yin REE project and 35km north of Kingfisher Mining Ltd’s (ASX:KFM) Mick Well REE project.

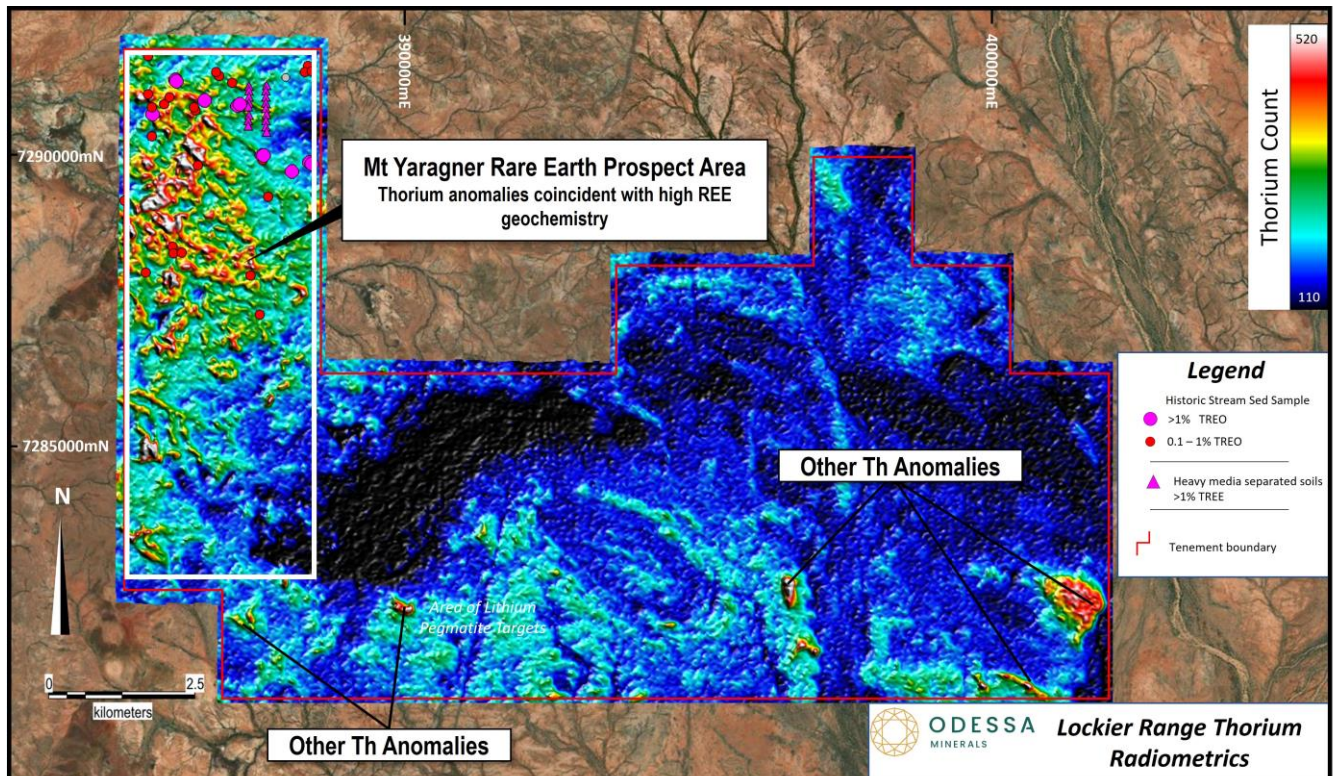
**David Lenigas, Odessa’s Executive Director, commented:** *“It’s fantastic news that the DMIRS has now finally approved the Lockier Range tenement, which allows us to now initiate an aggressive exploration programme to follow up on the numerous Thorium radiometric signatures we announced on the 17<sup>th</sup> of January. As we stated previously, it is well documented that thorium radiometrics and coincident ironstone anomalies are tell-tale markers of rare earth bearing carbonatites at the nearby Yangibana and Yin rare earth deposits. To now see high-resolution geophysical data from our Lockier Range project, particularly Mt Yaragner,*

<sup>1</sup> Odessa Minerals ASX announcement dated 25 October 2022 – Lockier Range REE Project Acquisition

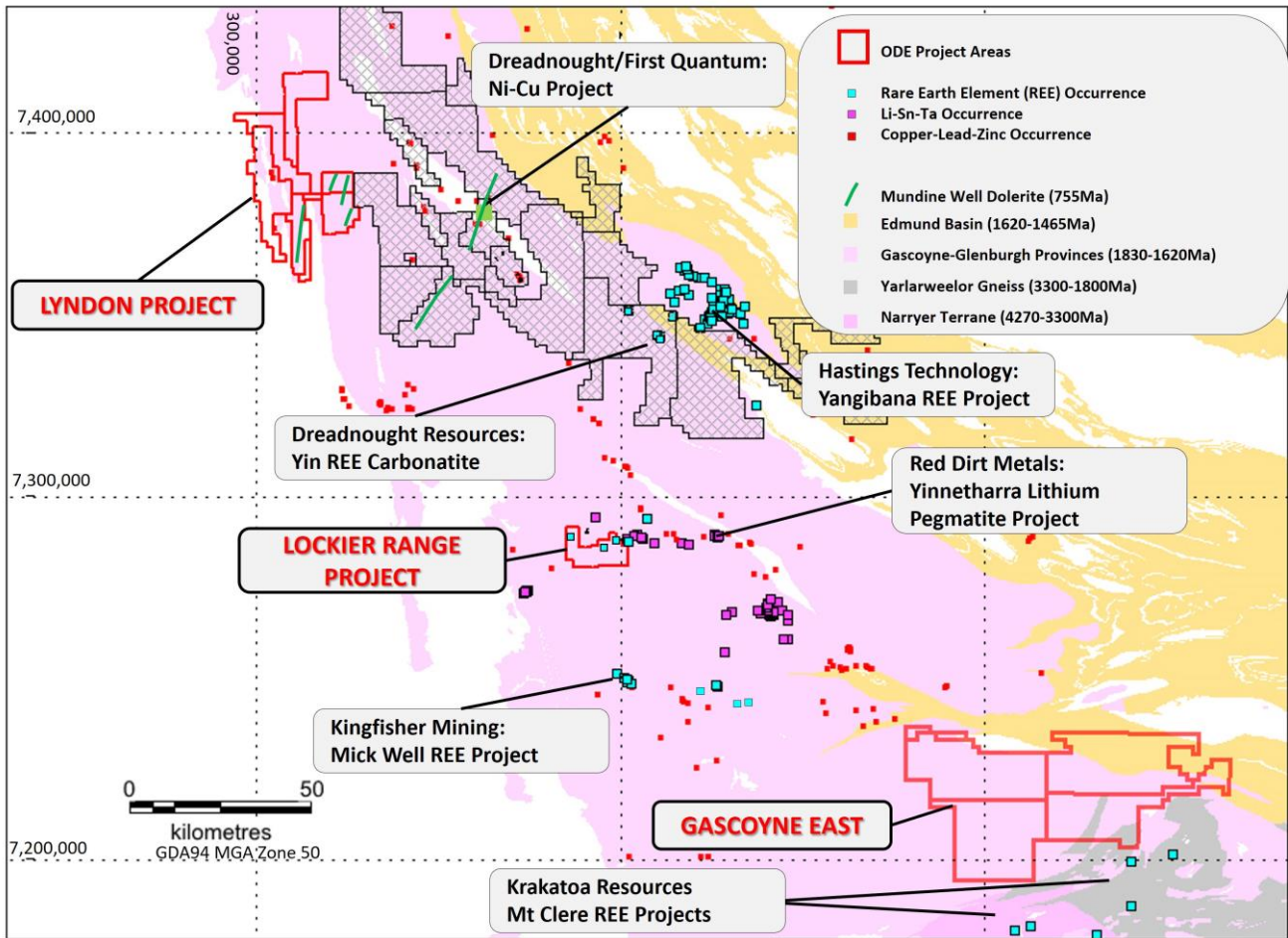
<sup>2</sup> Odessa Minerals ASX announcement dated 17 January 2023 – Rare Earth Carbonatite Targets Highlighted at Lockier Range

*interpreted with aerial imagery for iron oxide zones, within the area of historic high-level rare earth assays, makes for a compelling drill targeting exercise."*

As previously reported on 17<sup>th</sup> January 2023, the radiometrics data shows multiple high-order Thorium targets from the detailed 50 metre line-spaced fixed-wing survey.



*Figure 1 – Odessa’s Lockier Range Project showing newly acquired thorium radiometric data. The high thorium count relates to the Mt Yaragner area in the west and is coincident with historic high-grade geochemistry data. (Grid MGA95, Zone 51).*



*Figure 2 - Odessa Minerals' projects in the Gascoyne Region of Western Australia.*

Exploration plans for Lockier Range include an immediate detailed soil geochemical sampling programme and rock chip sampling over the key target areas identified from the radiometrics, with highest priority areas covering historic +1% TREO zones.

This announcement has been approved for release by the Board of Odessa Minerals.

## ENQUIRIES

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