

20 November 2023

## DIAMOND CORE DRILLING STARTS AT EARAHEEDY PROJECT

### HIGHLIGHTS

- **1,000m diamond core programme to follow up the significant gold and base metal intersections from the recent RC drilling programme which included:**
  - **8m @ 1.05 g/t Au** from 44m in LERC012 (inc. **4m @ 1.73 g/t Au**)
  - **8m @ 0.74 g/t Au** from 8m in LERC008
  - **4m @ 0.60 g/t Au** from 32m in LERC022
  - **12m @ 0.10 % Cu** from 40m in LERC017
  - **4m @ 0.16 % Cu** from 76m in LERC014
  - **2m @ 0.24 % Zn** from 160m in LERC012
  - **4m @ 0.29 % Zn** from 20m in LERC015
- **Drilling to test depth and strike extensions of mineralised intervals as well as to test the orientation of the mineralisation and stratigraphy**

### Management Commentary:

**Lodestar Managing Director Ed Turner commented:** *"We are on a rapid learning curve at Earahedy and with successful first pass Aircore and RC drilling we now look forward to completing our first diamond core drilling programme before Christmas. We believe the Project has the potential to host multiple copper-gold deposits but as we are drilling under sand cover we need the oriented diamond core to measure geological contacts, dips and strikes to help us vector in to the best mineralisation. Our geological model, which has gold and copper being associated along with the presence of volcanic sills within the sedimentary pile, has similarities to the **high-grade VMS copper-gold DeGrussa deposit**, which occurs within the region in the same aged sedimentary rocks of the Bryah Basin."*

Lodestar Minerals Limited ("**LSR**" or "**the Company**") (**ASX:LSR**) is pleased to report the commencement of our first diamond core drilling programme at the Earahedy Project (the "**Project**"). The drilling is designed to follow up significant gold and copper intersections in first pass Aircore and RC drilling as reported on 17 July 2023, 2 August 2023 and 3 November 2023 (Figure 1).

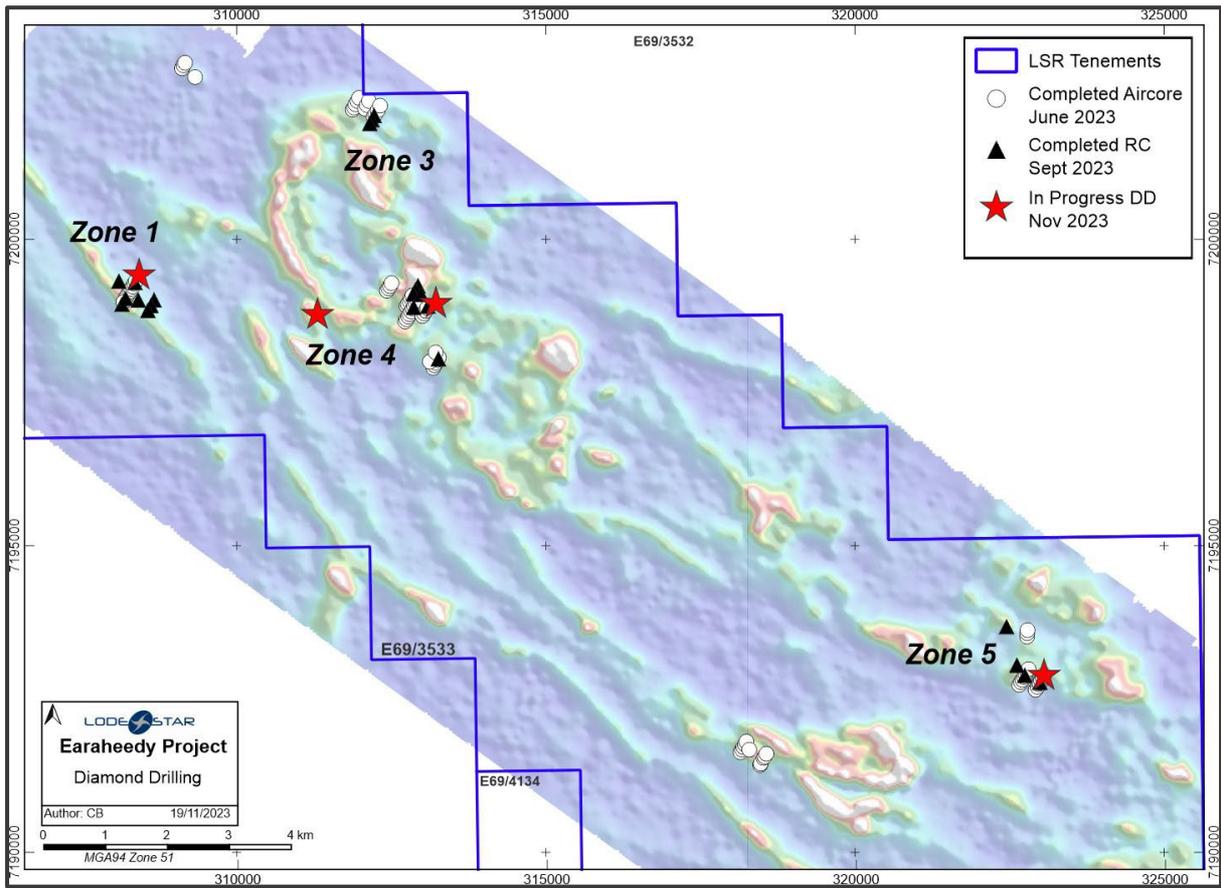


Figure 1: Drill hole location plan in relation to LSR Tenure on EM background.

Four diamond core holes for approximately 1,000m are planned in Zone 1, 4 and 5.



Figure 2: PX Drilling Rig drilling LEDD001



Figure 3: Exploration Manager Coraline Blaud and Leading Hand James Culpan inspecting core



Figure 4: Remote exploration basic core yard set up allowing the team to process core on site.

### EXPLORATION STRATEGY: NEXT STEPS

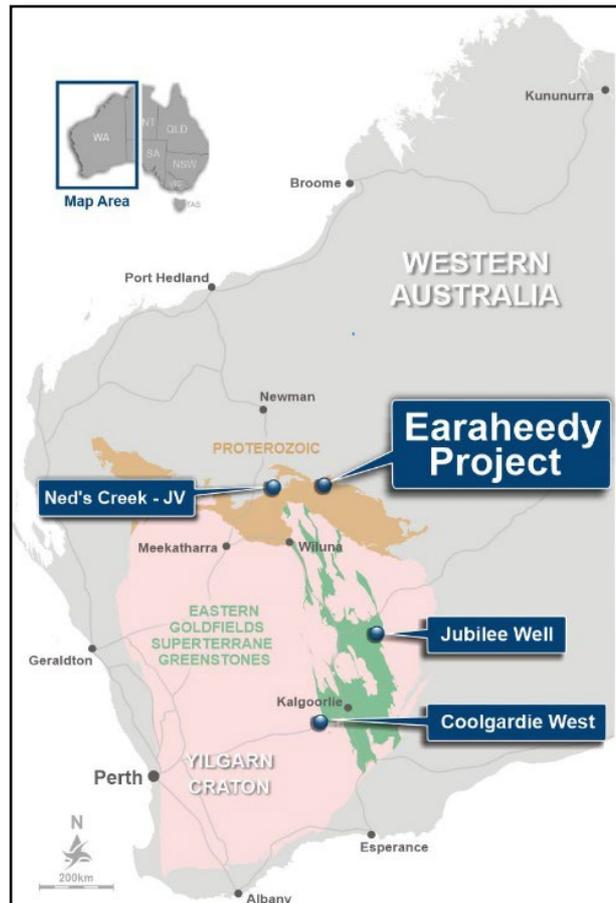
The diamond core drilling is expected to be completed in 2-3 weeks with the core being geologically processed directly on site by our Exploration Manager. The core will then be transported to Perth for cutting and sampling. Assays results are expected for late January to early February.

A total of 4,650 soil samples have been completed this year with all the assays expected to be received in January. These extensive geochemical soil sampling programmes will allow us to define new Copper-Gold, Gold and Zinc-Lead-Silver targets across our large tenure. The samples have been collected on wide space grid (200m x 200m, 200m x 400m, 200m x 800m) which will require infill program before defining drilling locations. The Company is planning to collect these additional samples early in the year to drill these new targets areas in Q1 2024.

## ABOUT LODESTAR

Lodestar Minerals is an active Western Australian base metal and gold explorer. Lodestar's projects comprise the 100% owned Earaaheedy, Jubilee Well and Coolgardie West projects as well as the Ned's Creek JV Project (Figure 5).

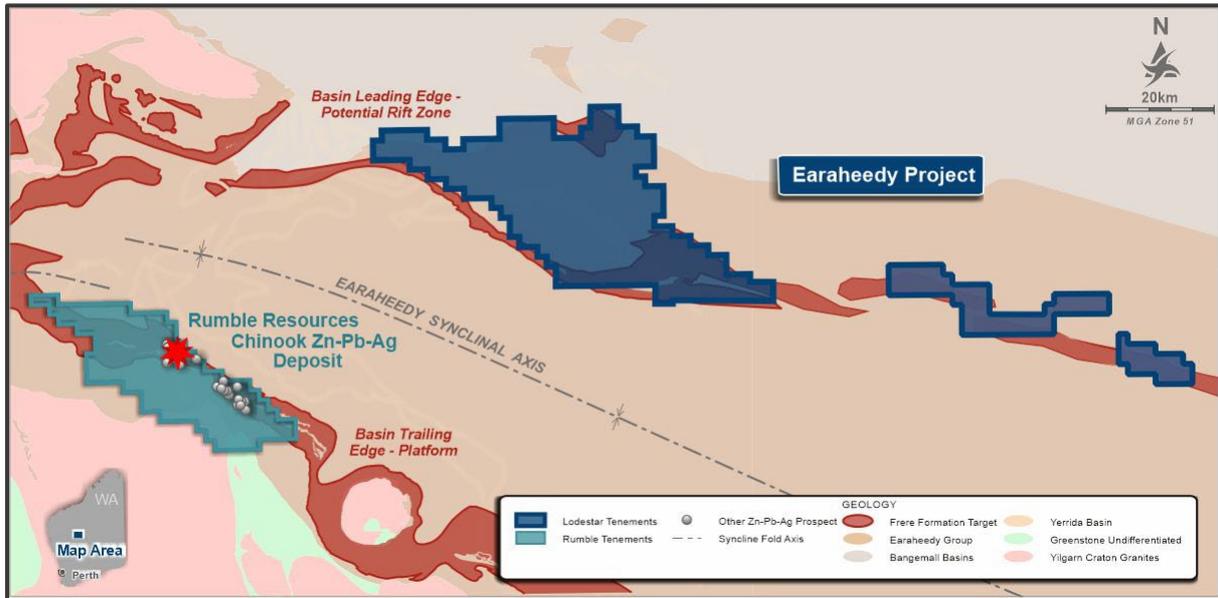
Lodestar also has exposure to lithium via its significant shareholding in Future Battery Minerals (**ASX:FBM**) who own the Kangaroo Hills lithium Project in Western Australia and the Nevada Lithium Project in the US.



**Figure 5: Lodestar's Project locations**

The Earaaheedy Project (Figure 6) is a major strategic land holding comprising over 1,400 sqkm in the emerging Earaaheedy Province. The Project is located on the northern margin of the prospective Earaaheedy Basin and Lodestar now owns approximately 100km of strike length of the Yelma-Frere unconformity which hosts Rumble Resource's Zn-Pb Ag Chinook Deposit on the Earaaheedy Basin's southern margin. The Chinook MRE is **94Mt @ 3.1% Zn+Pb and 4.1 g/t Ag**.

The Project also includes Cu-Au targets within a similar geological setting to the DeGrussa Copper Deposit which is located in the neighbouring Bryah Basin. Limited historic drilling within Lodestar's tenements has intercepted high grade copper including **2m @ 4.65% Cu and 3m @ 1.97% Cu**.



**Figure 6: Lodestar's Earahedy Project tenements**

This announcement has been authorised by the Board of Directors of the Company.

**-ENDS-**

### Contacts

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### Competent Person Statement

*The information in this report that relates to Exploration Results is based on information compiled by Ed Turner, Managing Director, who is a Member of the Australasian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, 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 Turner consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.*

*This announcement is available to view on the Lodestar website. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.*