

# Inaugural Drill Program to Commence at Trident Lithium Project in NSW

## HIGHLIGHTS

- **Stelar's first hard rock lithium drilling program to commence at the Trident Lithium Project in NSW**
- **3,000m of reverse circulation (RC) drilling is planned to test the historic lithium prospects where high-grade rock chips up to 8.7% Li<sub>2</sub>O have been returned**
- **Trident is located approximately 50km north of Broken Hill, an area highly prospective for hard rock lithium mineralisation**

**Stelar Metals Limited (ASX:SLB)** ("**Stelar Metals**" or the "**Company**") is pleased to announce an inaugural RC drilling program at the Company's Trident Lithium Project ("**Trident**" or the "**Project**") is ready to commence in the following week. Preceding approval by the NSW Resource Regulator<sup>1</sup>, Stelar identified 19 drill sites as prospective for lithium mineralisation. Trident covers an area of 260 km<sup>2</sup> and is located approximately 50 km north of Broken Hill in New South Wales.

### **Colin Skidmore, Stelar's CEO, commented on this critical step for the Project:**

*"We are thrilled to have everything in place for the inaugural drill program at Trident, to finally uncover the untapped potential of our project site. Our team worked incredibly hard in the lead-up, ensuring all approvals were granted and the program was meticulously planned to ensure drilling optimisation."*

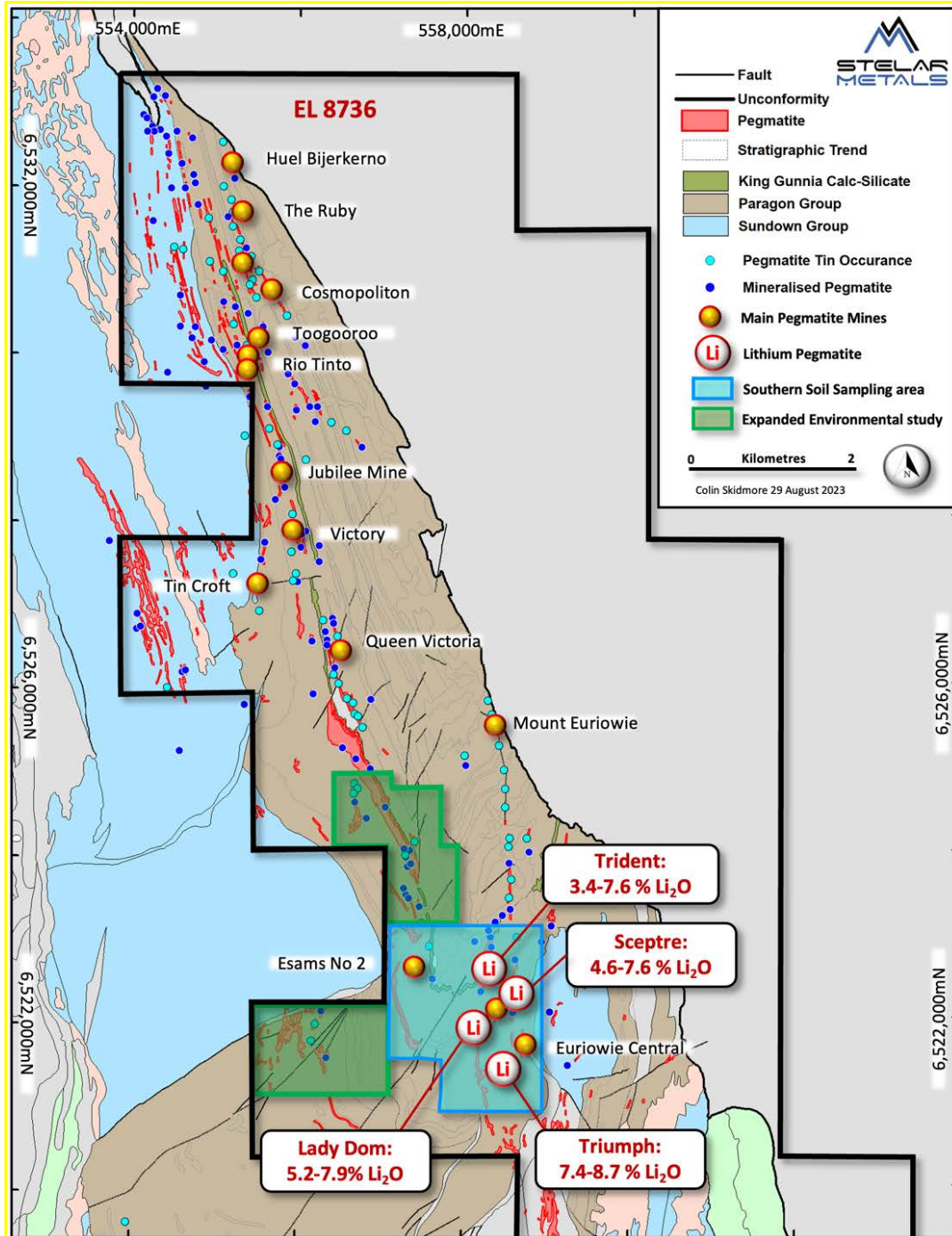
*"This is a significant development for Trident since project acquisition earlier this year, and we look forward to sharing results as they're returned over the coming months."*

Bullion Drilling Services is conducting the RC drill program of around 3,000m, focusing on testing historic lithium prospects, which have identified significant LCT-pegmatites (*Figure 1 and Figure 2*). Stelar's geologists have finalised the drill hole design to ensure drilling optimisation below the known shallow workings and beneath the oxide zone to assess the lithium mineral zoning. Previous rock chip sample results<sup>2</sup> at Trident prospects include:

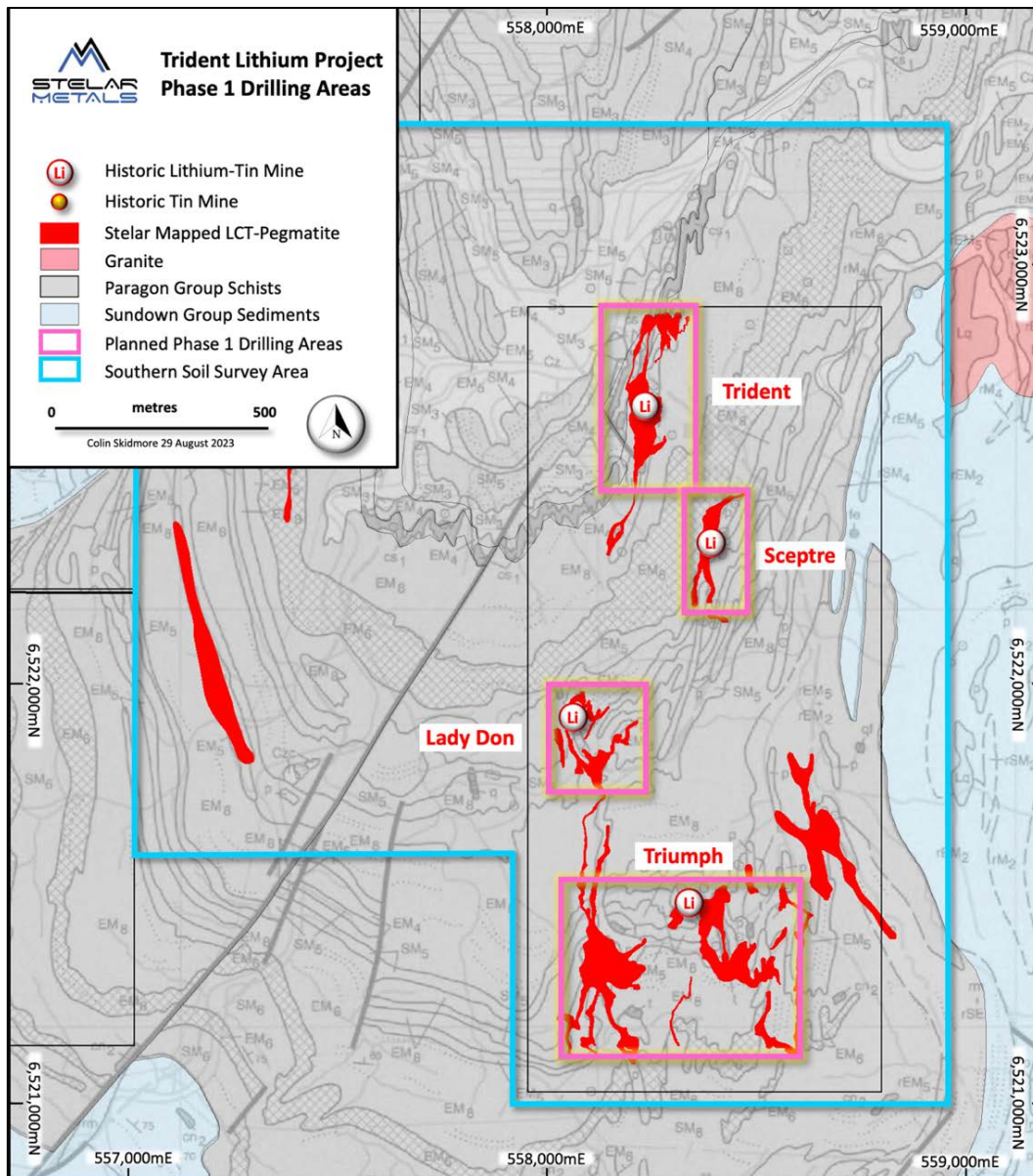
- **7.4-8.7% Li<sub>2</sub>O** (Triumph Mine)
- **5.2-7.9% Li<sub>2</sub>O** (Lady Dom Mine)
- **3.4-7.6% Li<sub>2</sub>O** (Trident Mine)
- **4.6-7.6% Li<sub>2</sub>O** (Sceptre Mine)

<sup>1</sup> ASX Announcement 24 October 2023 – Inaugural lithium drilling program approved for Stelar's Trident Project

<sup>2</sup> ASX Announcement 28 August 2023 – High Grade Lithium Rock Chip Assays from Trident Project



**Figure 1:** Trident Lithium Project showing the location of major pegmatites, soil sampling areas, and expanded Environmental Assessment study areas.



**Figure 2:** Trident Lithium Project showing the Phase 1 planned drill areas over Trident, Sceptre, Lady Don, Triumph Pegmatites

### Details of Drill Program

The Trident Lithium Project extends over the 20 km strike length of the Euriovie Tin Pegmatite Field and is highly prospective for hard rock lithium mineralisation. The ~3,000 metre RC drill program will be the first to test the historic lithium mines at *Trident*, *Sceptre*, *Lady Don* and *Triumph*, and the recently mapped LCT-pegmatites at *Stag* and *Gloria*.

The program is designed to be flexible to allow an initial assessment of the orientation and morphology of the known lithium-mineralised pegmatites. Additionally, targeting below the known shallow workings and beneath the oxide zone will provide an opportunity to assess the lithium mineral zoning in the Trident Pegmatite System and test for the presence of spodumene, which typically weathers away near the surface.

Stelar's geologists have worked with expert structural geologists from PGN Geoscience (PGNG) to finalise optimal drill hole design based on the structural controls on the orientation and morphology of the mapped pegmatites at *Trident*, *Sceptre*, *Lady Don*, *Triumph*, *Stag* and *Gloria*.

### **Ortho-Imagery and LiDAR**

AeroMetrex completed the acquisition of high-resolution ortho-imagery and LiDAR datasets in mid-October and has delivered processed products, including a high-resolution digital terrain model, which will be used to level the drilling with the geological surface mapping accurately.

### **Future Work**

The inaugural drill campaign will be completed in November, with assay results expected to be returned in early 2024.

Mapping of other pegmatites in the Euriowie Pegmatite Field, including Typhoon and Carnival, is ongoing.

**THIS ANNOUNCEMENT HAS BEEN APPROVED FOR RELEASE BY THE BOARD OF STELAR METALS LIMITED**

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## ABOUT STELAR METALS

Stelar Metals' experienced and successful lithium exploration and development team is targeting discovery and production of the critical mineral lithium that is rapidly increasing in global demand to enable the world to achieve net zero emissions.

Stelar's Trident Lithium Project is located near mining, industrial, transport and green power infrastructure at Broken Hill in NSW. The Trident Lithium Project extends over the 20km strike length of the Euriowie Tin Pegmatite Field and is highly prospective for hardrock lithium mineralisation. Mapped LCT-type pegmatites vary in size but can be up to 100 metres wide and extend in outcrop for over 1 kilometre in length. Trident was one of the first lithium and tin mining provinces in Australia, which highlights both the fertility and large scale of Stelar's lithium-rich pegmatite system.

## EXPLORATION RESULTS

The information in this announcement that relates to Exploration Results is based on information compiled by Mr Colin Skidmore, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Skidmore is a full-time employee of Stelar Metals Ltd. Mr. Skidmore has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken 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 (the JORC Code (2012)). Mr. Skidmore consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

This announcement includes information that relates to Exploration Results prepared and first disclosed under the JORC Code (2012) and extracted from the Company's initial public offering prospectus which was released on the ASX on 16 March 2022. A copy of this prospectus is available from the ASX Announcements page of the Company's website: <https://stelarmetals.com.au/>.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement. Where the information relates to Exploration Results, 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.