

8 July 2025

## Airborne EM Survey Commences at Aileron

Encounter Resources (ASX: ENR) ('Encounter' or 'the Company') is pleased to announce that an airborne electromagnetics survey has commenced at the Aileron project in the West Arunta region.

### Key Highlights:

- **1,000 km<sup>2</sup> helicopter-borne electromagnetic (EM) survey underway at the Aileron Project to:**
  - Detect conductive features indicative of potential copper sulphide mineralisation
  - Enhance targeting of niobium-REE mineralised carbonatites
  - Identify groundwater resources to support future operations
- **Survey is co-funded up to \$250,000 under the WA Government's Exploration Incentive Scheme (EIS)**
- **EM data will complement and refine targeting for the ongoing regional aircore drilling program**

### Executive Chairman, Will Robinson, comments:

*"We continue to build momentum in our 2025 exploration season, acquiring a high-value new geophysical dataset to generate new targets and complement existing ones across our highly prospective tenure. The favourable basement geology, combined with multiple anomalous copper observations in prior exploration at Aileron, means that conductive bodies defined in the airborne EM survey will represent high-priority targets for follow-up exploration."*



Photo 1 – Helicopter with EM system at Aileron field camp

## Additional Target Generation with EM

Encounter has two drill rigs operating at the Aileron Project; a reverse circulation (RC) rig is undertaking resource definition drilling at the Green deposit, while an aircore rig is conducting first-pass regional exploration across a series of high-priority targets.

Carbonatite discoveries to date confirm that the major fault systems within Encounter's tenure act as mantle-tapping conduits for mineralised carbonatite magmas, with high-grade zones forming at structural intersections and flexures which are the key focus of regional exploration.

These structural intersections and flexures are also prospective for other intrusive-related mineralisation such as IOCG-style copper-gold systems. In 2024, copper anomalism was identified at two regional targets: chalcopyrite in diamond drilling at Perce and cuprite in GSWA heavy mineral sampling at Leopard<sup>1</sup>.

In 2022, geochronology from drillhole EAL001 at the Aileron project confirmed magmatic rocks of a similar age to those in the Gawler Craton in South Australia which hosts Olympic Dam and other large scale IOCG deposits<sup>2</sup>.

Following review of airborne EM data generated from Geoscience Australia's 20 km line spaced regional program, Encounter validated the decision to fly a 1,000 km<sup>2</sup> helicopter-borne EM survey utilising the Xcite time-domain EM system on 300m line spacing.

The helicopter-borne EM survey will provide a new, high quality geophysical dataset which is intended to identify basement conductors potentially associated with copper-sulphide mineralisation. The EM data may also assist in identifying areas of deeper weathering and therefore be potentially indicative of preferentially weathered carbonatites. Additionally, the EM data may assist in identifying water resources for future operations.

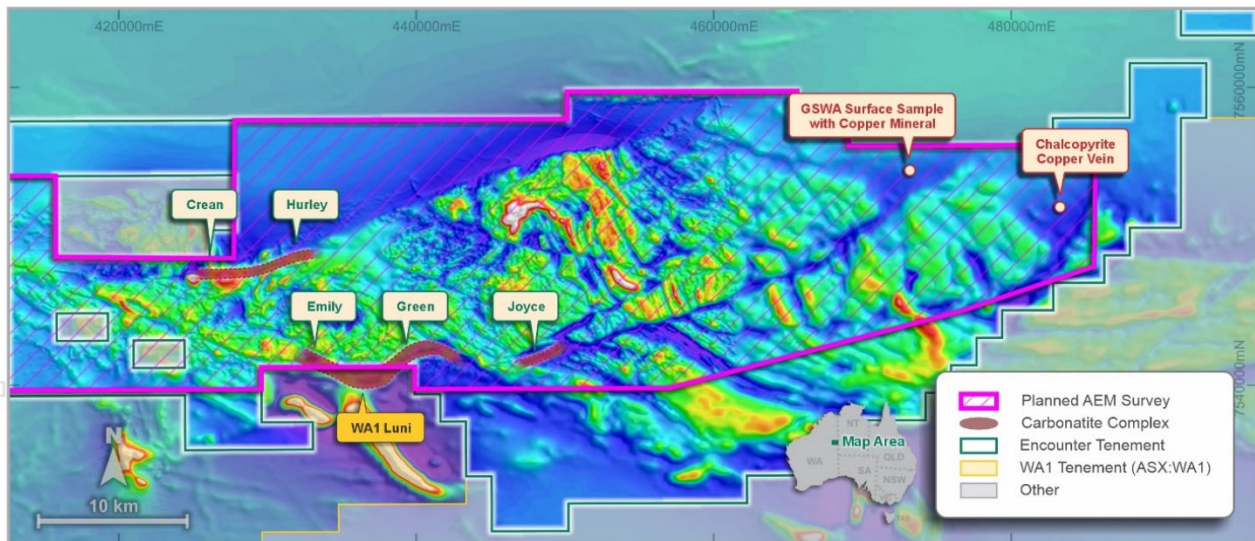


Figure 1 – Aileron Project Magnetics (RTP) – showing identified carbonatite complexes and the planned AEM survey area<sup>3</sup>

<sup>1</sup> ENR ASX announcement 24 March 2025

<sup>2</sup> ENR ASX announcement 25 August 2022

<sup>3</sup> ENR ASX announcement 14 October 2024

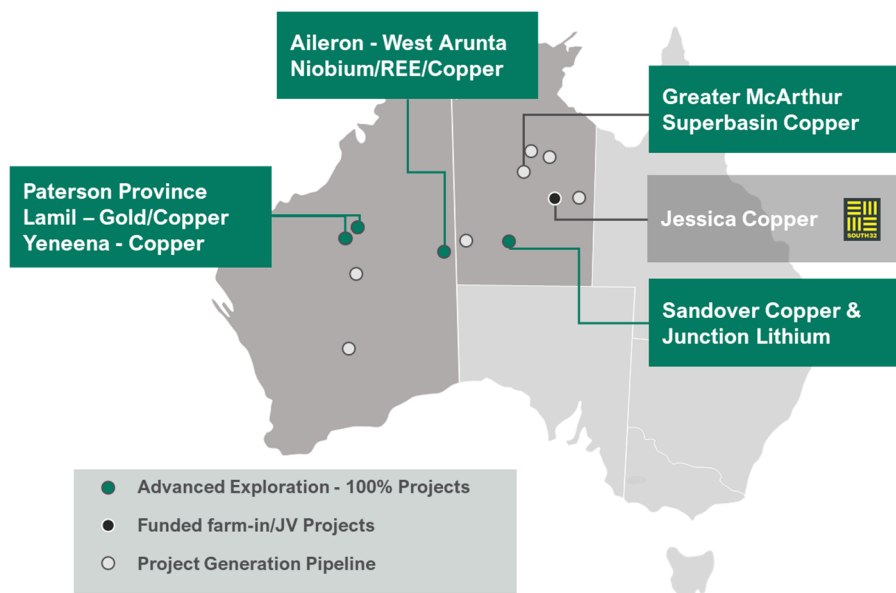
## About Encounter

Encounter Resources (ASX:ENR) is a leading Australian mineral exploration company focused on the discovery of major copper and niobium/rare earth element (REE) deposits.

The Company holds a commanding portfolio of 100%-owned projects located in some of Australia's most prospective mineral belts, targeting copper and critical minerals. Key among these is the Aileron Project in the highly endowed West Arunta region of Western Australia, which is emerging as a significant frontier for critical mineral exploration.

The Aileron Project includes a JORC 2012-compliant Inferred Mineral Resource of 19.2 million tonnes at 1.74% Nb<sub>2</sub>O<sub>5</sub>, highlighting its potential as a world-class critical minerals province.

Encounter's strategy is centred on high-impact discovery in Tier 1 jurisdictions, leveraging strong technical capability and a proven track record of attracting leading industry partners.



Deposit	1.0% Nb <sub>2</sub> O <sub>5</sub> cut-off (subset of 0.25% Nb <sub>2</sub> O <sub>5</sub> cut-off)		0.25% Nb <sub>2</sub> O <sub>5</sub> cut-off	
	Tonnage (Mt)	Grade (% Nb <sub>2</sub> O <sub>5</sub> )	Tonnage (Mt)	Grade (% Nb <sub>2</sub> O <sub>5</sub> )
Green	12.1	1.63	48.0	0.81
Emily	3.7	1.94	13.9	0.93
Crean	3.5	1.92	5.7	1.38
<b>Total</b>	<b>19.2</b>	<b>1.74</b>	<b>67.6</b>	<b>0.88</b>

Table 1 – Aileron Project Inferred Mineral Resource Estimate

Notes:

- The resource is constrained within optimised pit shells based on a price of US\$45 per kilogram Nb (US\$30/kg FeNb) and is reported above a 0.25% Nb<sub>2</sub>O<sub>5</sub> cut-off grade.
- The resource reported above a 1% Nb<sub>2</sub>O<sub>5</sub> cut-off grade is a subset of the 0.25% Nb<sub>2</sub>O<sub>5</sub> cut-off grade.
- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.

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*The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases and confirms that it is not aware of any new data or information that materially affects the information disclosed in this announcement and previously released by the Company in relation to mineral resource estimates. All material assumptions and technical parameters underpinning the mineral resource estimates in the relevant market announcements continue to apply and have not materially changed.*

*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 announcements.*

*This announcement has been approved for release by the Board of Encounter Resources Limited.*

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