



Unlocking the
Earaheedy Basin's
Next **BIG** Discovery



*Mining News Select
Perth Presentation*

17-18 June 2024

ASX: LSR

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Competent Persons Statement

The information in this report that relates to Exploration Targets and Exploration Results is based on information compiled by Mr. Ed Turner, who is a Competent Person and a Member of the Australian Institute of Geoscientists. Mr. Turner is the Managing Director of Lodestar Minerals Limited. Mrs. Turner has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for the reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Turner consents to the inclusion in the report of the matters based on her information in the form and context in which it appears. The information in this announcement that relates to previously released exploration results was disclosed under JORC 2012 in the ASX announcements dated:

- ***Rumble Resources ASX announcement dated 19th April 2023***
- ***Lodestar Minerals ASX announcement 15th Dec 2021***
- ***Lodestar Minerals ASX announcement 10th July 2023***
- ***Lodestar Minerals ASX announcement 23rd Dec 2022***
- ***Lodestar Minerals ASX announcement 17th July 2023***
- ***Lodestar Minerals ASX announcement 2nd August 2023***
- ***Lodestar Minerals ASX announcement 7th August 2023***
- ***Future Battery Minerals ASX announcement 24th August 2023***
- ***Lodestar Minerals ASX announcement 23rd March 2024***
- ***Lodestar Minerals ASX announcement 8th April 2024***
- ***Lodestar Minerals ASX announcement 6th June 2024***

These announcements are 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.

Board and Senior Management

Managing Director – Ed Turner

- Geologist with 35 years of experience with listed public companies in exploration management, resource development, capital raisings, and commercial acquisitions and divestments
- This experience includes precious metals, base metals, uranium and lithium in Australia, Africa, Eastern Europe, and South America
- Recent positions include CEO of Galena Mining Ltd and Kingwest Resources Ltd

Non-Executive Chairman – Ross Taylor

- Chartered Accountant and finance professional with extensive experience in global investment banking and financial markets
- Senior positions with Deutsche Bank, Bankers Trust and Barclays Capital
- Largest shareholder in Lodestar

Non-Executive Director – David McArthur

- Chartered Accountant with broad range of experience in financial and corporate management of public listed companies gained over the past 30+ years

Capital structure

ASX code	LSR
Shares on issue (before Entitlement Issue)	2,023m ¹¹
Options on issue	320m
Share price	0.2¢
Market capitalisation	A\$4m
Directors	7.2%
Top 20 shareholders	26%

11. See Lodestar Minerals ASX release dated 6th June 2024

Exploration Manager – Coraline Blaud

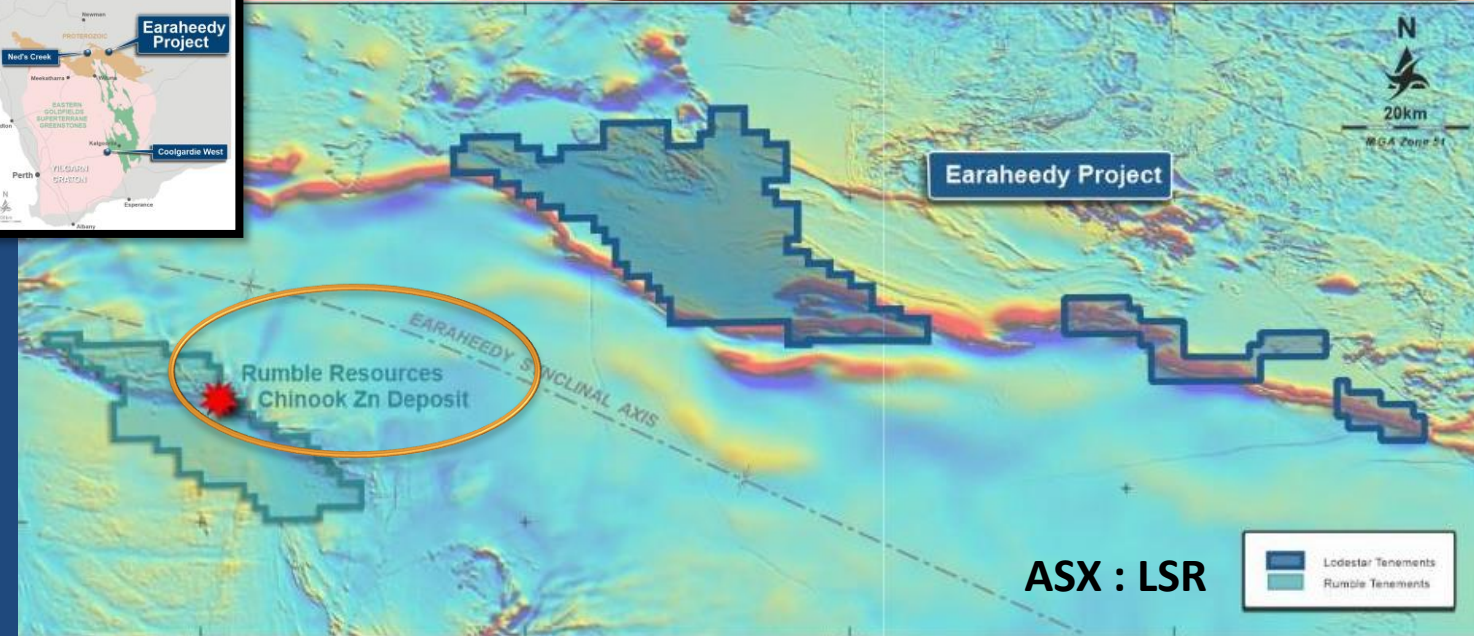
- Geologist with 10 years' experience in the junior mining sector working across multiple commodities including base metals, precious metals, lithium and potash in Western Australia, Europe and Africa
- Significant experience in Greenfields exploration and Resource Definition including the Abra Base Metal Deposit (Galena Mining Ltd) and the Menzies Gold Project (Kingwest Resources Ltd)

Earaheedy Project: Tier 1 Base Metal Jurisdiction

The Right Location for Discovery

Earaheedy has clear Tier-1 Base Metal potential:

- MVT Style: Zn-Pb-Ag targets on the same geological setting as Rumble Resources Chinook Discovery (94Mt @ 3.1% Zn+Pb and 4.1 g/t Ag)²
- Lodestar has >100km strike length¹ of the targeted Yelma-Frere unconformity within its tenements – the same geological setting as Rumble’s Tier 1 Zn-Pb-Ag Chinook Deposit
- VMS Style: Emerging Earraheedy metallogenic terrane, same age as DeGrussa (Cu)
- Copper in historical drilling at Main Gossan intersected **2m at 4.65% Cu and 3m at 1.97% Cu³**



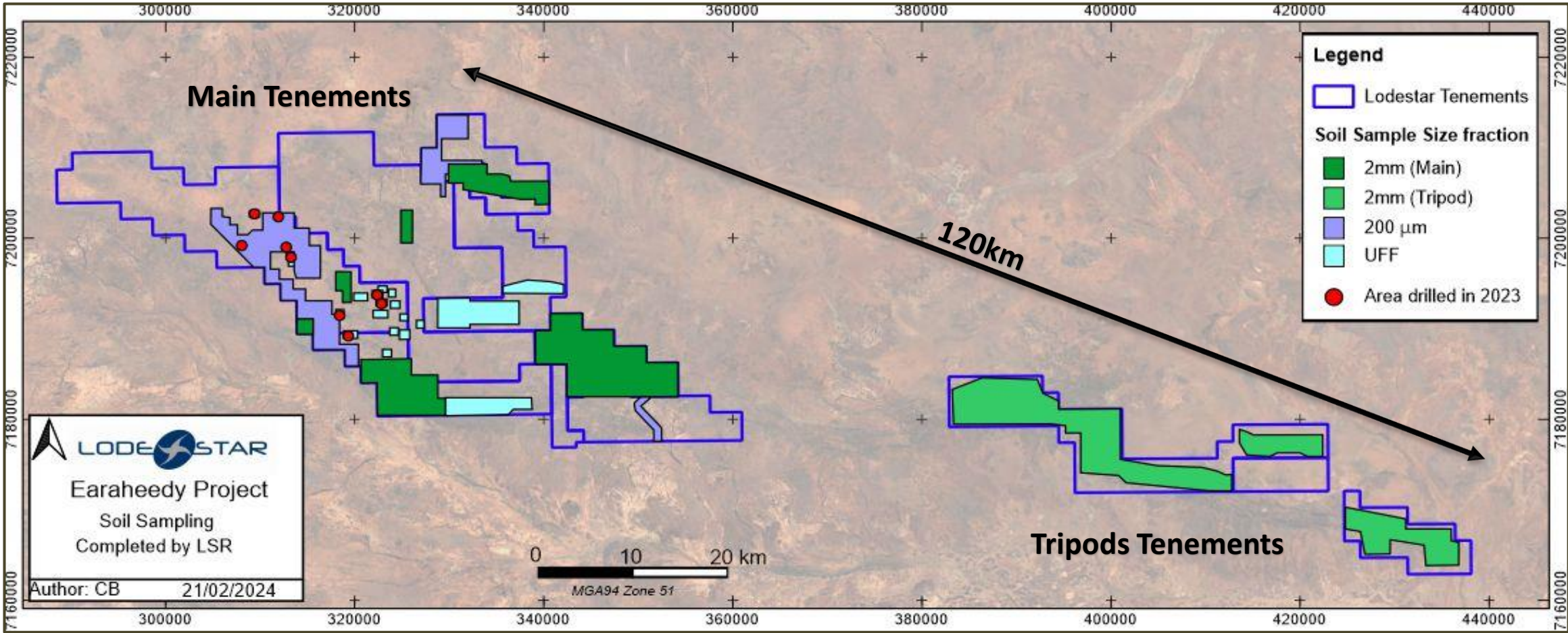
1. See Rumble Resources ASX release dated 19th April 2023
2. See Lodestar Minerals ASX release dated 10th July 2023
3. See Lodestar Minerals ASX release dated 15th December 2021

New Targets Highlight Scale and Prospectivity

- 16 new large base metal anomalies (Cu, Pb, Zn, Co) defined in first pass geochemical soil sampling
- New anomalies cover in excess of 100km of strike length and 30km strike width
- Despite the extent of sampling completed to date, LSR has only sampled approximately half of the Earraheedy Project area, so further high-quality targets are expected to be identified in the near-term
- Approx. 2,000 soil samples taken in 2024 at Lab. Assays expected in July.
- New drill targets to be defined for next phase of drilling in 2024

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Soil sampling to date vs areas drilled in 2023



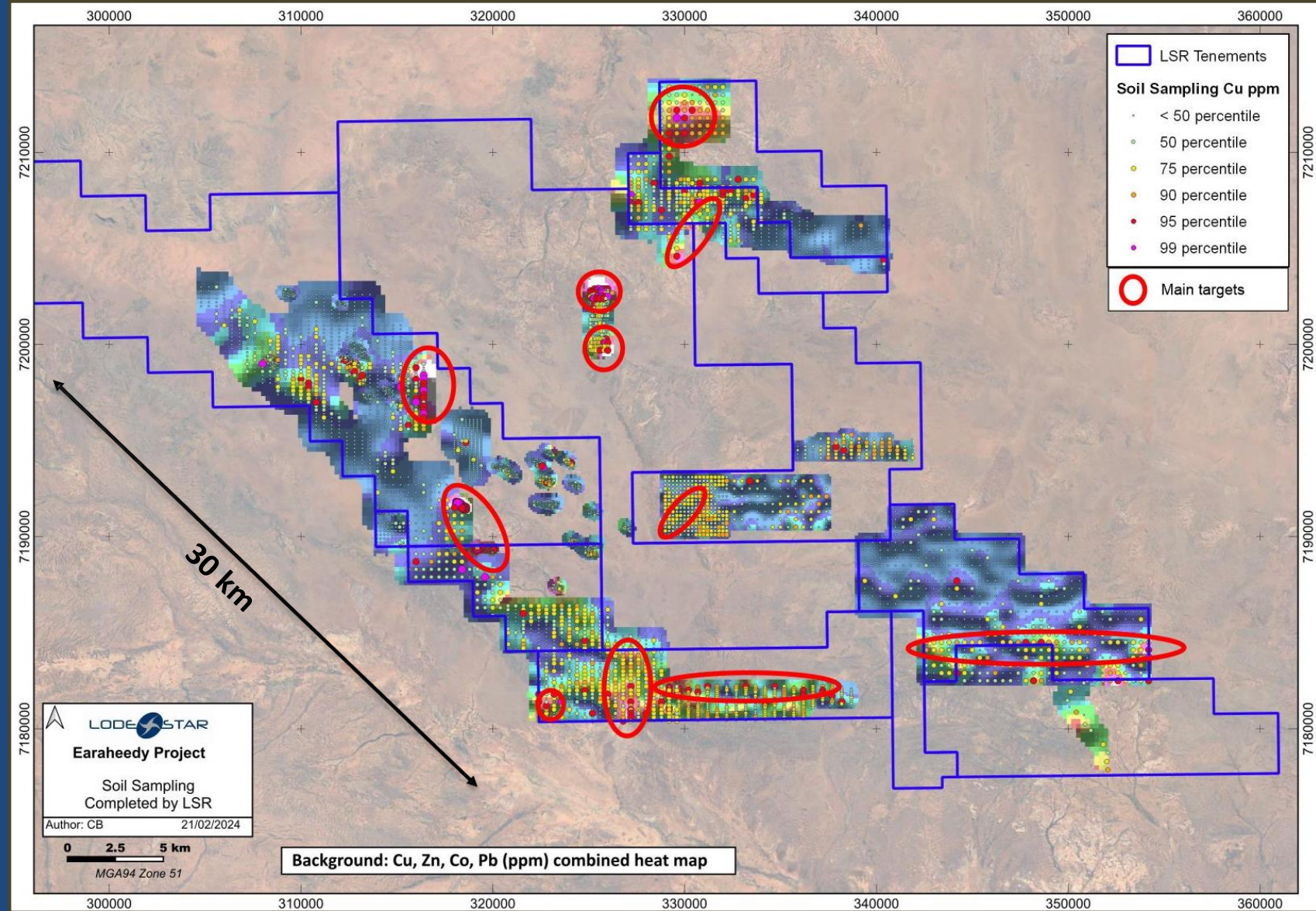
Earaheedy Project: High-Quality Targets



Newly defined Au, Cu, Zn targets

16 new large Cu, Pb, Zn, Co anomalies covering 100km of strike length and 30km strike width defined in first pass geochemical soil sampling⁶

Cu and Zn results on background heat map of combined Cu, Zn, Co and Pb values in Main Project Tenement Area



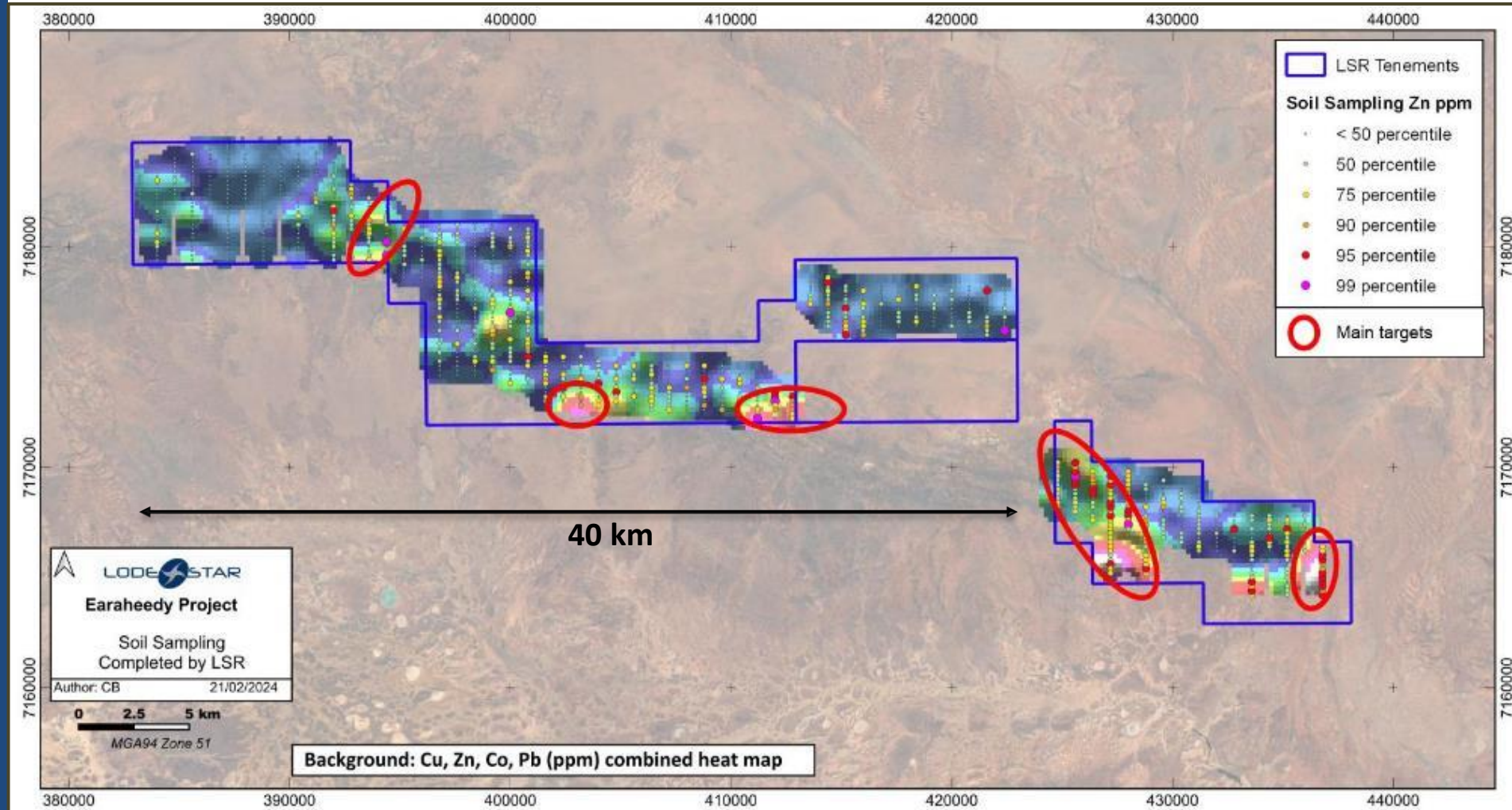
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⁶: See Lodestar Minerals ASX release dated 26th March 2024.

Earaheedy Project: *High-Quality Targets*



New targets areas to be follow up with infill soil sampling to delineate the targets more accurately before drilling.



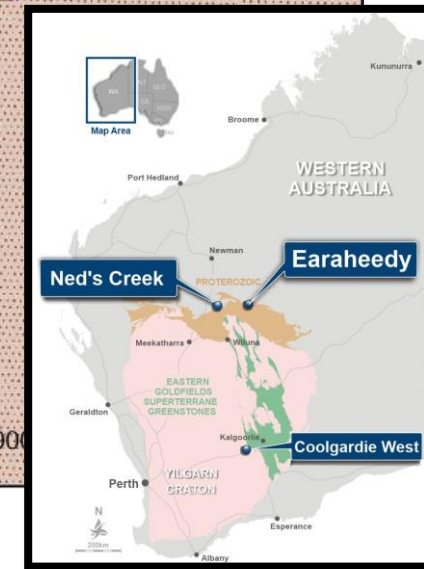
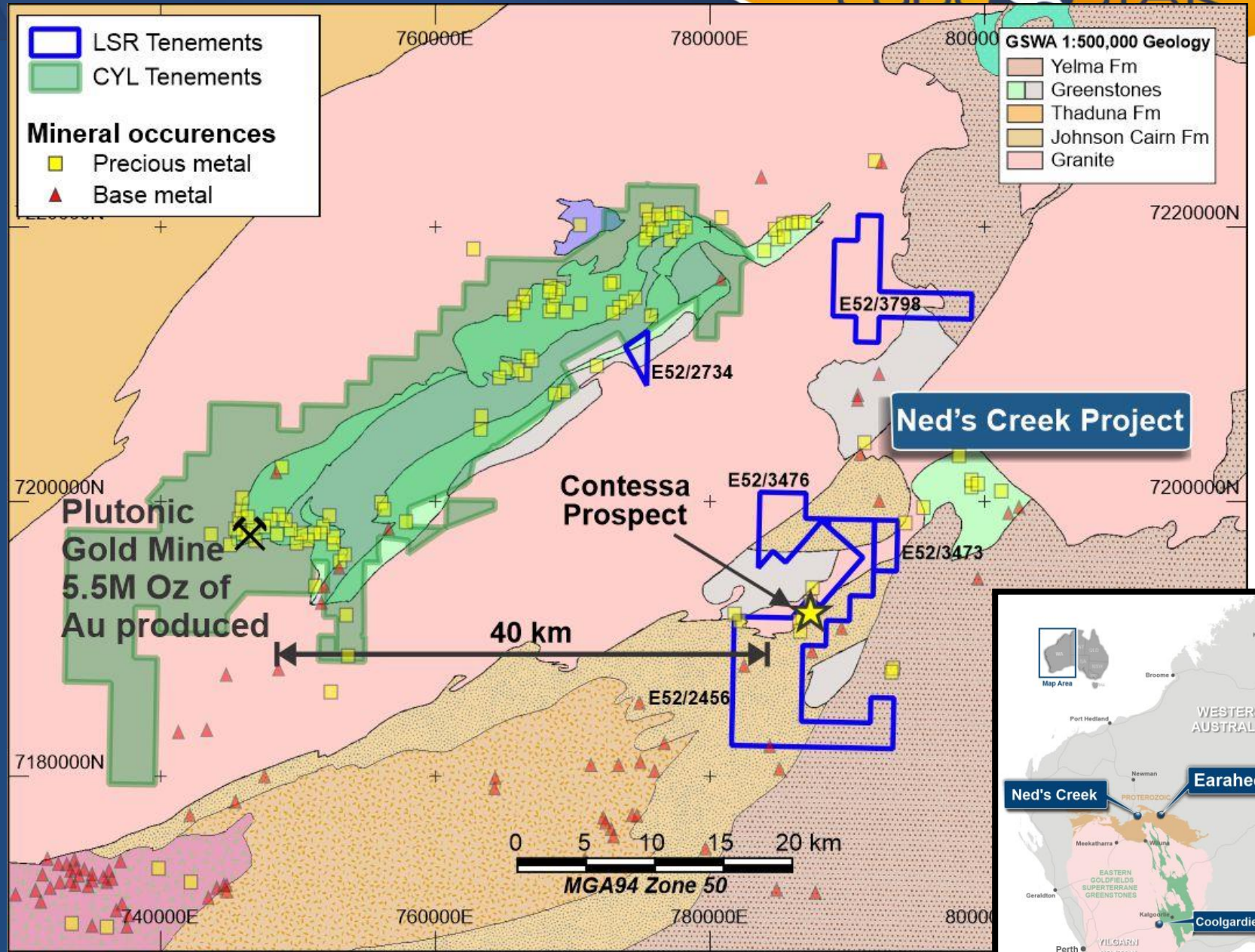
Cu and Zn results on background heat map of combined Cu, Zn, Co and Pb values in Tripod Tenement Area

Ned's Creek Project

Multiple Gold Prospects

Ned's Creek presents huge Gold potential:

- Previous exploration of the Ned's Creek Project returned grades up to **11m @ 29 g/t Au inc 1m @ 151 g/t Au** at Contessa
- 40km from the Plutonic Gold Mine and Processing Plant which produced **5.5M Oz of Au** since 1990

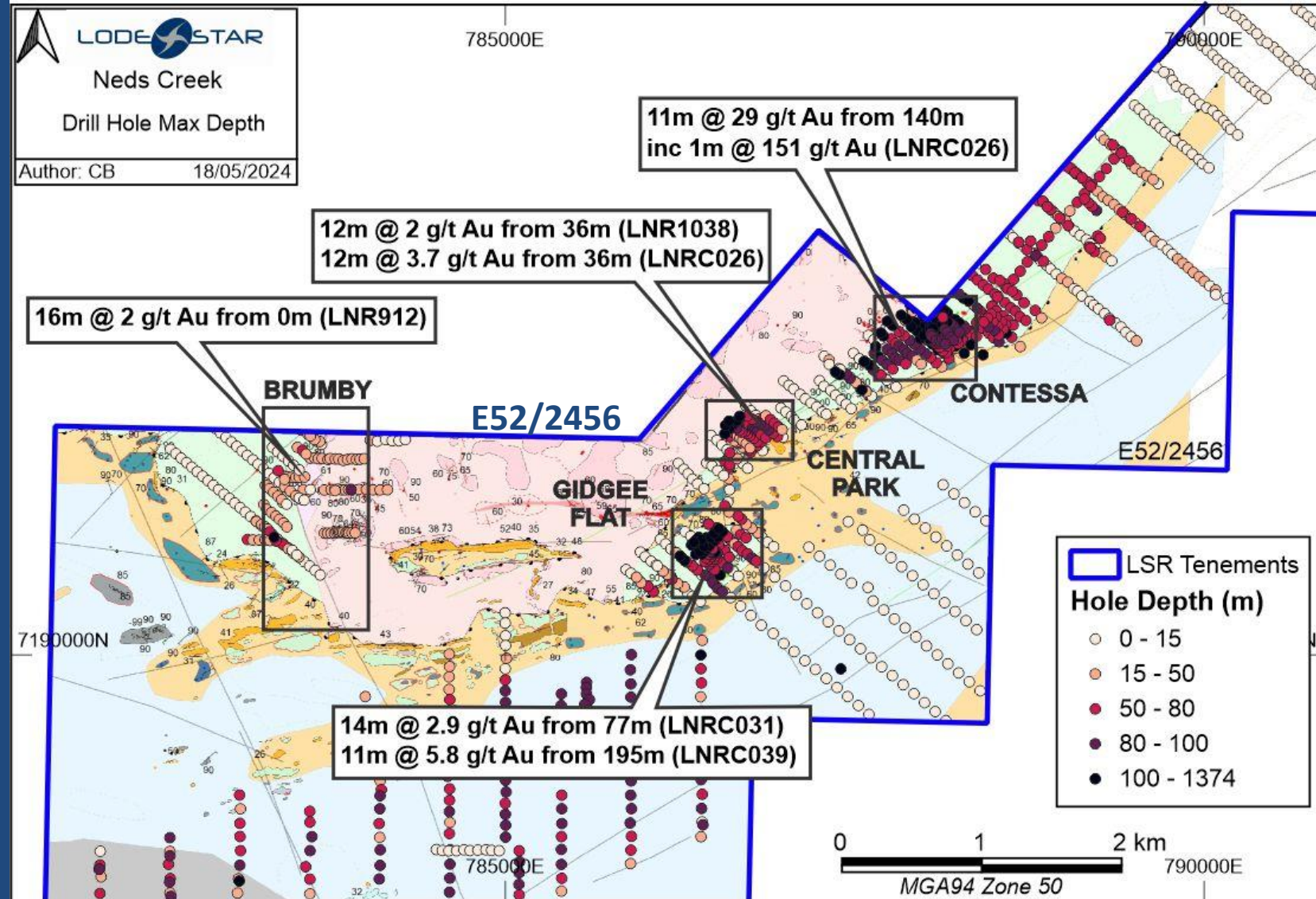


Ned's Creek Project: Previous Exploration



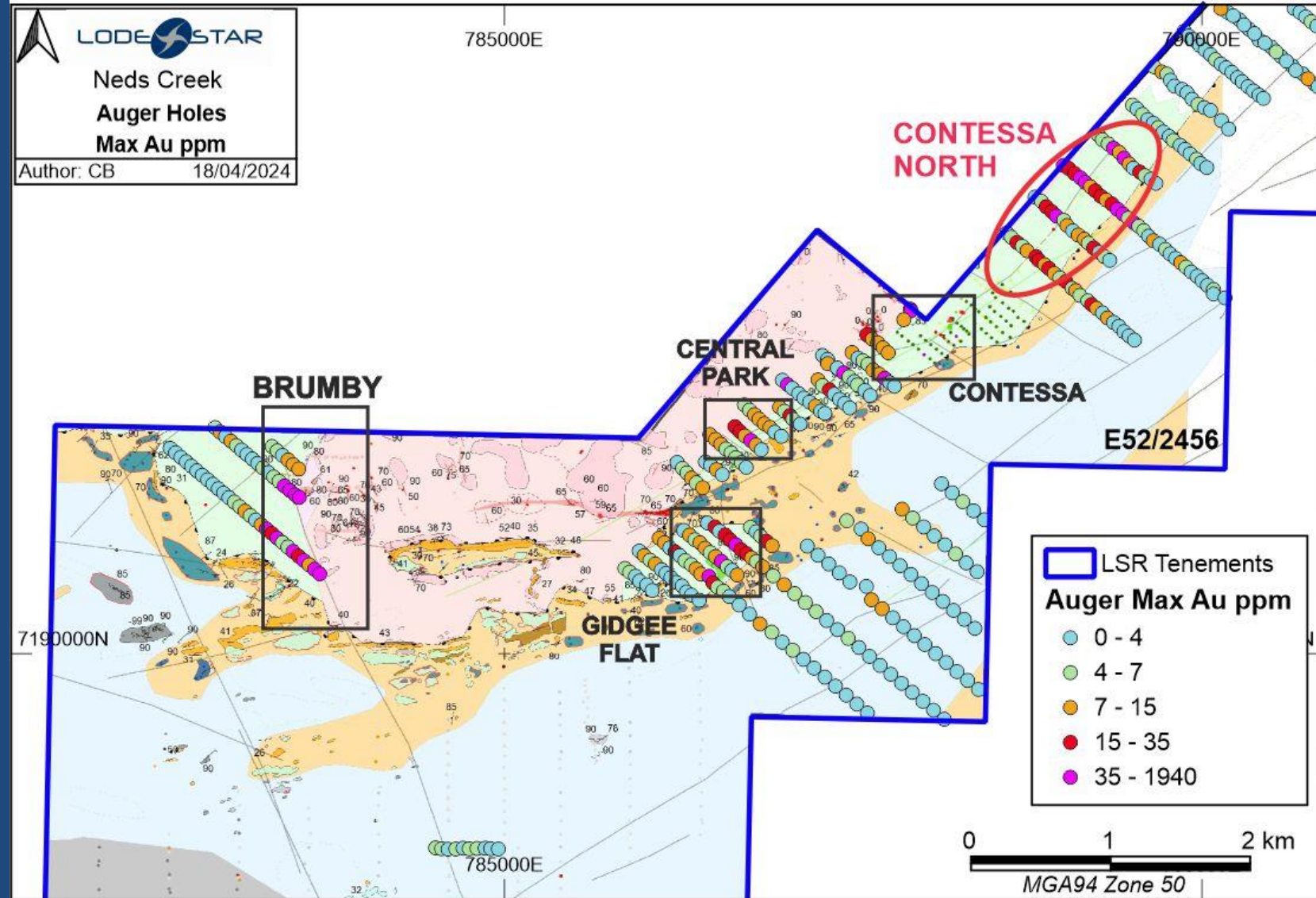
Drilling focussed on Main prospects, leaving large areas untested

- Previous exploration focussed on 4 main prospects in the main tenement
- Contessa returned the best mineralisation with **11m @ 29 g/t Au** and Gidgee Flat returned **11m @ 5.8 g/t Au**



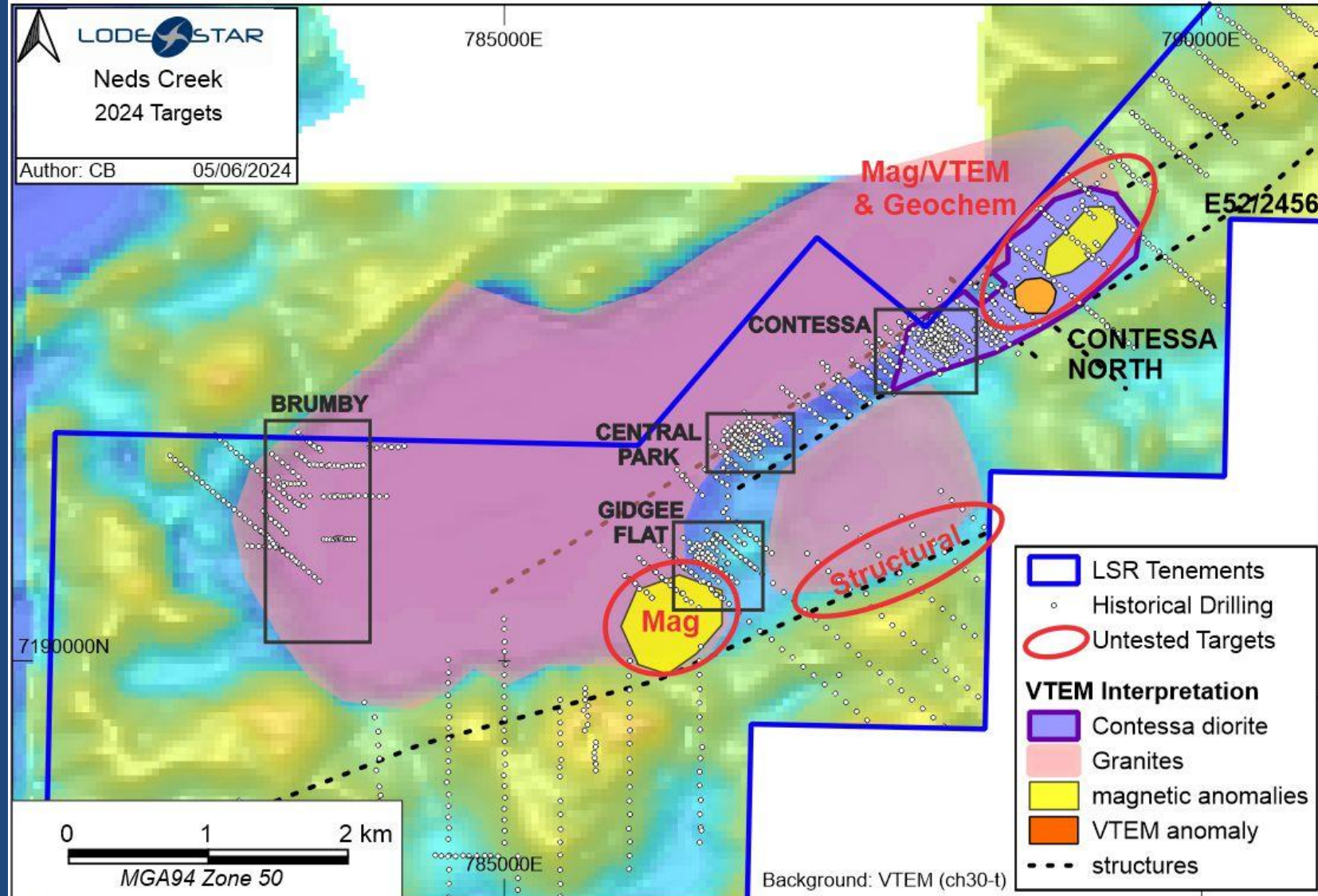
Geochemical holes show anomalous mineralisation at Contessa North

- Anomalous Au was intersected in first pass Aircore drilling at Contessa North but not followed up with deeper drilling to bedrock



Geological & Geophysical Review delineated new targets

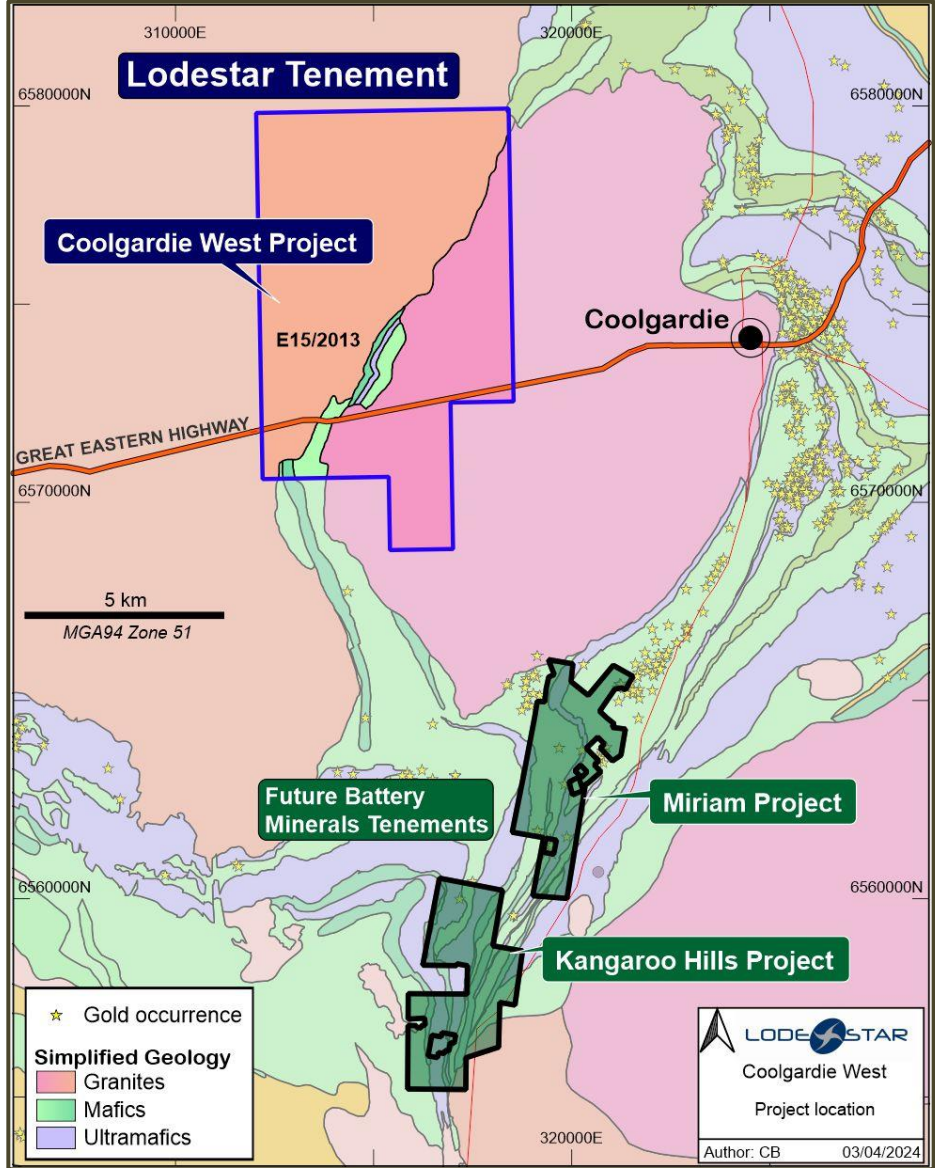
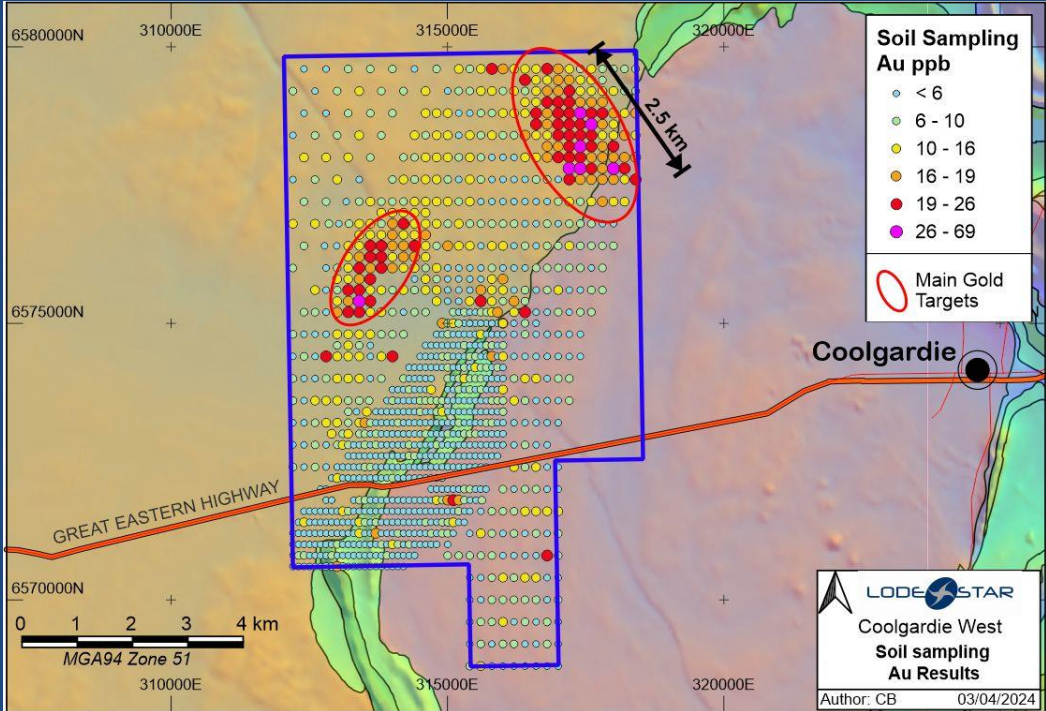
- All the mineralisation is located along the granite intrusive contact
- Magnetic and VTEM targets defined and never drilled
- These include Contessa North
- Smaller granite delineated from VTEM survey could present a repeat of the Contessa Zone mineralisation



Coolgardie West Project



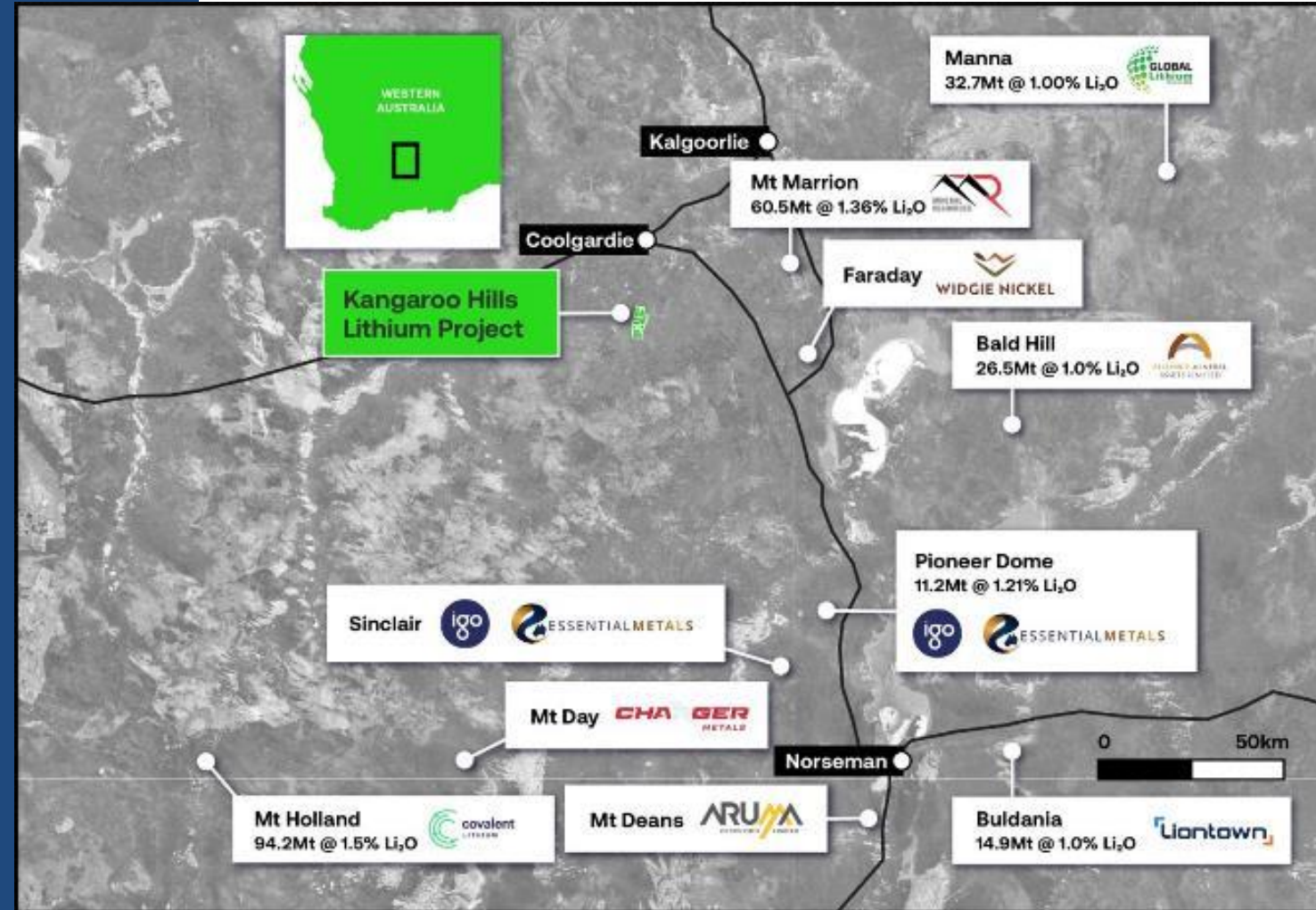
- Newly granted exploration licence near Coolgardie
- Previous soil geochemical programmes have identified two large Au anomalies that require follow up⁸
- Recent infill sampling has more clearly defined these two targets which are planned to be drill tested in the next Quarter



8. See LodeStar Minerals ASX release dated 8th April 2023.

A new LCT Pegmatite Discovery

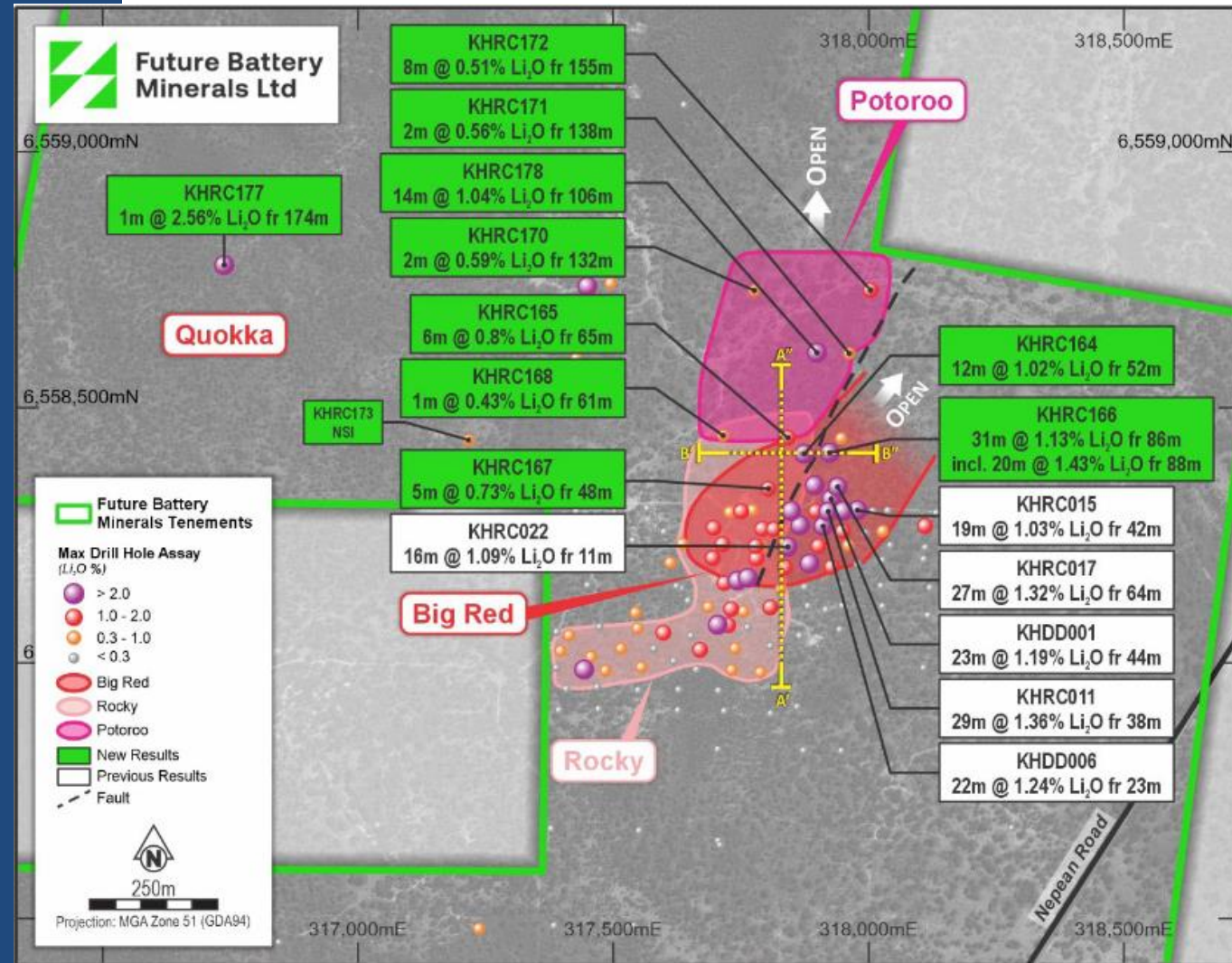
- Future Battery Minerals (FBM) owns the Kangaroo Hills Lithium Project in WA and the Nevada Lithium Project in the USA
- Kangaroo Hills is 25km south of Coolgardie, and FBM's main project
- LSR has 9.3M FBM shares and 27.5M Performance Rights convertible upon FBM proving a Mineral Resource (MRE) of >10Mt @ 1.0% Li₂O⁹



9. See Lodestar Minerals ASX release dated 7 August 2023

Advancing towards an economic Resource

- Phase 4A drilling has extended the mineralized pegmatites at Big Red and discovered the fault offsetted Potoroo deposit
- Proven the size potential after intersecting stacked sets of mineralized pegmatites¹⁰
- This included:
 - 29m @ 1.36% Li₂O from 38m (KHRC011)
 - 27m @ 1.32% Li₂O from 64m (KHRC017)
 - 23m @ 1.19% Li₂O from 44m (KHDD001)
- Phase 4B drilling underway to test for further extensions to Big Red and Potoroo



10. See Future Battery Minerals ASX release dated 24 August 2023.

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Why Invest in Lodestar Now?

✓ *Systematically unlocking value from 100% owned Earahedy, Ned's Creek and Coolgardie West Projects*

Busy news flow pipeline over next 6 months:

- *Define drill targets at Earahedy following infill geochemical soil sampling for the 16 new base metal targets*
 - *Drill untested gold targets at Ned's Creek*
 - *Drill untested gold targets at Coolgardie West*
- ✓ *Lithium exposure via FBM shareholding: FBM making rapid progress at the Kangaroo Hills and Nevada Lithium Projects*

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