



# ASX ANNOUNCEMENT

## BANGEMALL PROJECT UPDATE

- **EIS co-funded drilling campaign completed at Mount Vernon**
- **Increased land position over prospective Ni-Cu-Co-PGE targets**

**Miramar Resources Limited (ASX:M2R, “Miramar” or “the Company”)** provides an update on exploration activities within the Company’s projects in the Capricorn Orogen of Western Australia where Miramar is exploring for critical minerals including nickel (Ni), copper (Cu), cobalt (Co) and platinum group elements (PGE’s).

### **Maiden Bangemall drilling campaign completed**

The Company advises that the maiden RC drilling campaign at its Bangemall Ni-Cu-Co-PGE Projects has now been completed. The initial drilling campaign was co-funded by the WA Government’s Exploration Incentive Scheme (EIS) and was the first specifically targeting Norilsk-style Ni-Cu-Co-PGE mineralisation in the Capricorn Orogen.

The drilling tested multiple geological and/or geophysical targets at Mount Vernon and Trouble Bore.

Drilling at Mount Vernon tested seven targets and intersected Kulkatharra Dolerite sills intruding into sandstones, siltstones and sulphide-rich shale. Selected samples have been submitted for analysis.

Unfortunately, the drillers encountered difficulties whilst drilling through alluvial cover over the Trouble Bore target, which remains untested at this stage. The Company will review other options for testing this high priority target, including with diamond drilling.

In addition to the drilling campaign, additional rock chip sampling was also conducted across both the Mount Vernon and Trouble Bore Projects to assist in identifying potential regional and project-scale vectors towards magmatic Ni-Cu-Co-PGE sulphide mineralisation.

The new rock chip sampling data will be used along with regional datasets to help target further exploration.

### **Increased land position over prospective Ni-Cu-Co-PGE targets**

Miramar advises that it has increased its tenement holding surrounding the Mount Vernon and Trouble Bore Projects with two recent Exploration Licence applications, E52/4380 and E52/4387 (Figure 1).

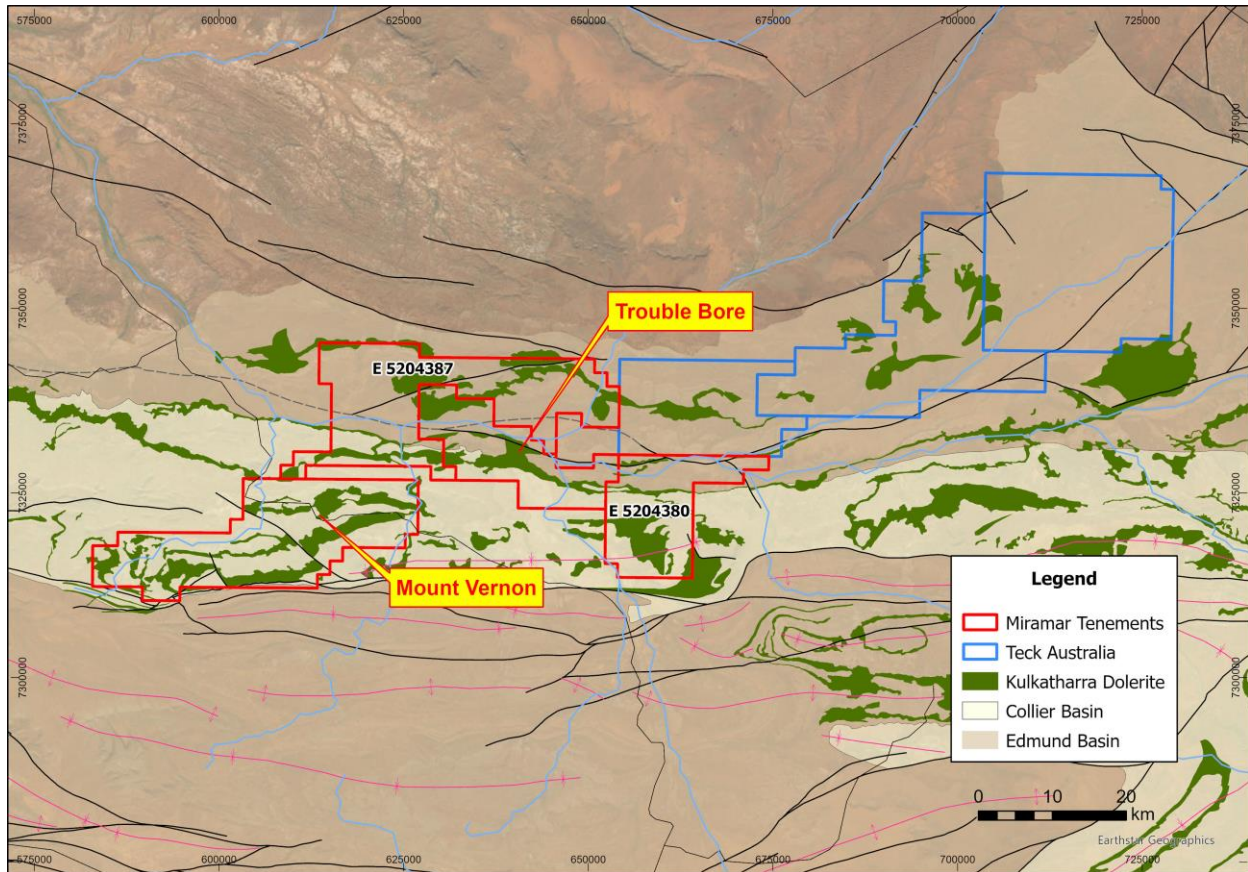
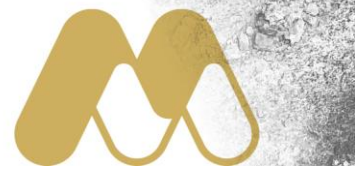
The Applications cover areas highlighted by both Geoscience Australia (Figure 2) and the CSIRO (Figure 3) as being prospective for mafic intrusion hosted Ni-Cu-Co-PGE.

The 2013 Capricorn airborne electromagnetic (AEM) survey highlighted several large conductors (Figure 4) which could be related to buried Ni-Cu-Co-PGE mineralisation and regional gravity data suggests potential for a buried magma chamber beneath dolerite sills within E52/4380.

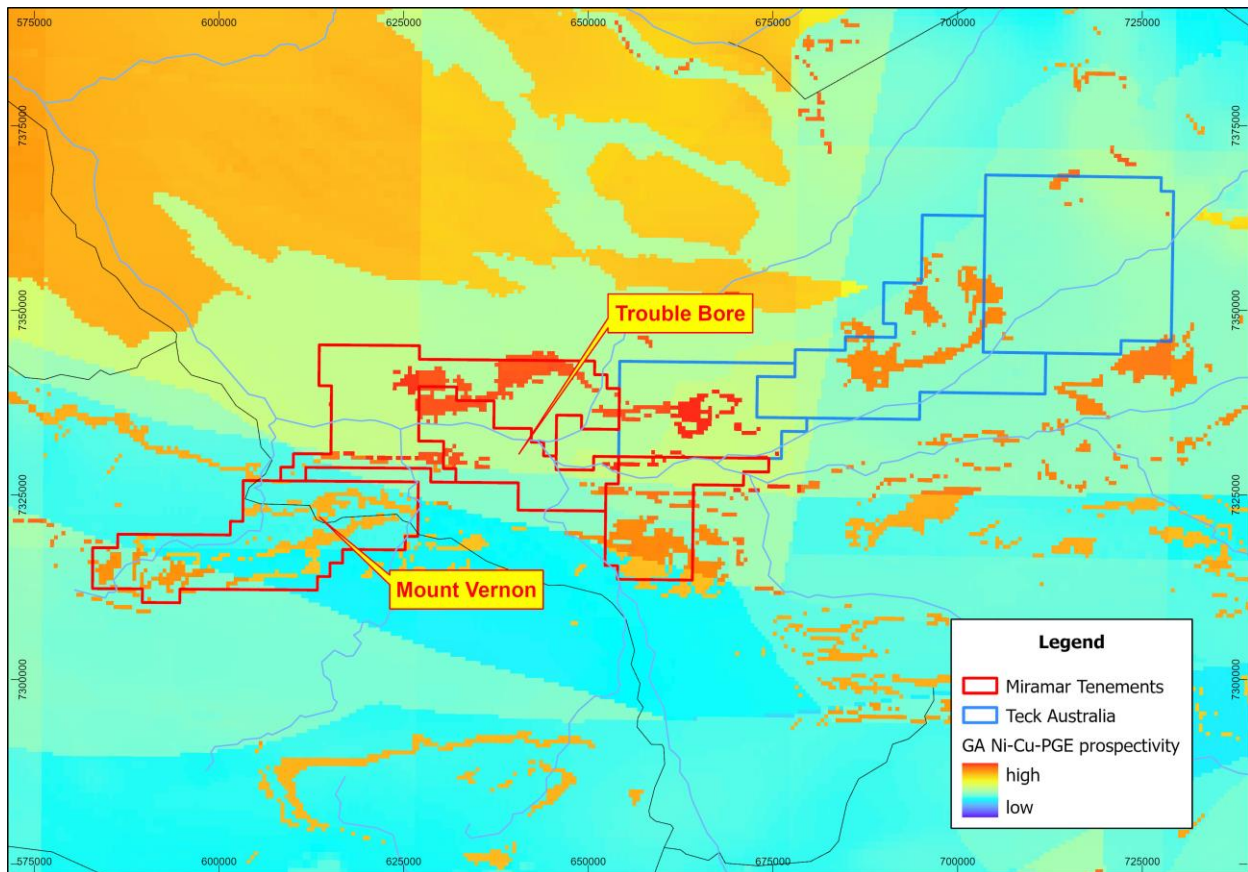
### **Upcoming Work Programmes**

The Company advises that further work is planned across its other projects including:

- Completion of a soil geochemical survey and systematic rock chip sampling at **Chain Pool**, including over the high-grade Joy Helen copper-lead-zinc occurrence (Sept-Oct)
- Interpretation of new Induced Polarisation (IP) data collected at 8-Mile (**Gidji JV**)
- Bedrock and/or aircore drilling across various targets within the **Gidji JV** Project

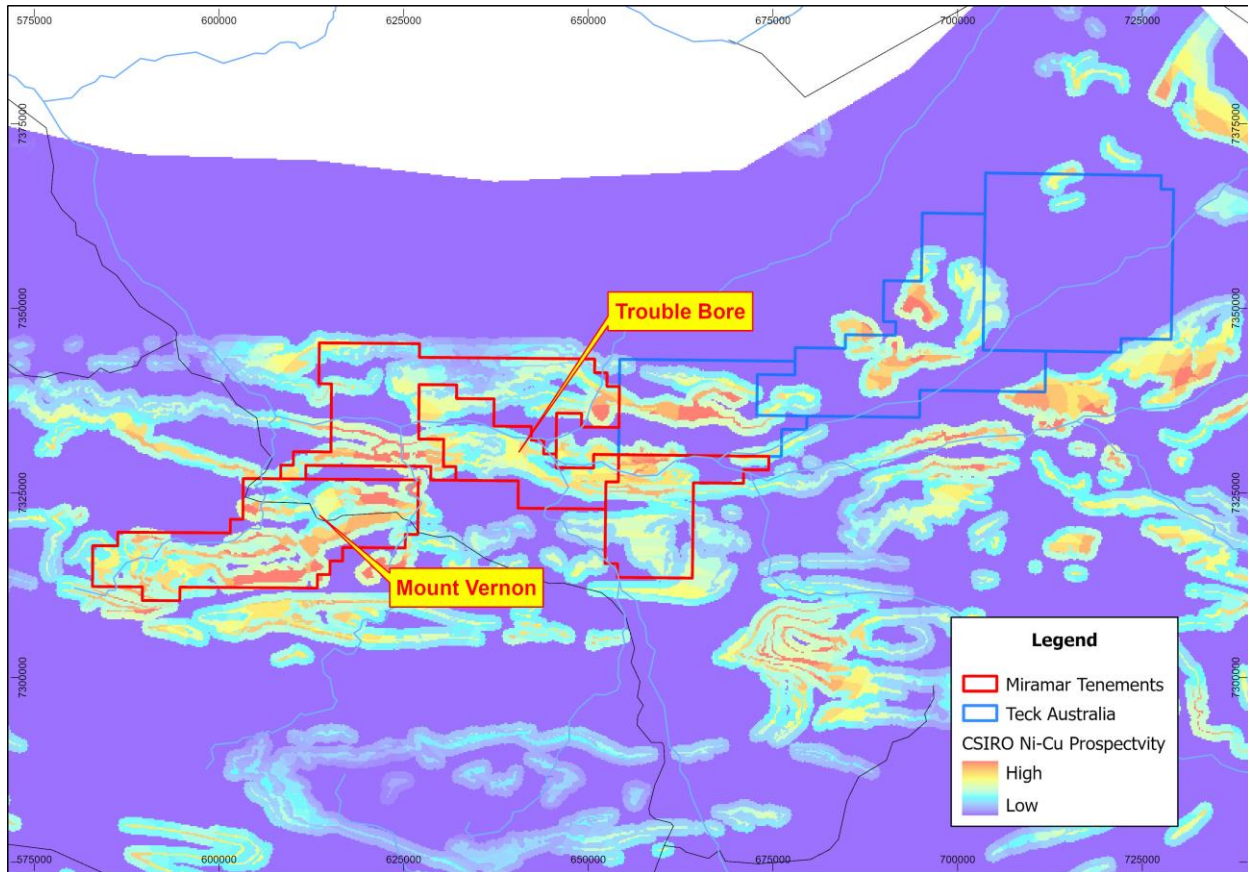
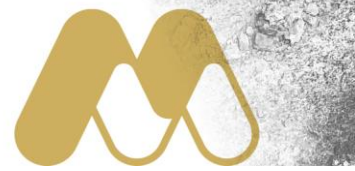


**Figure 1.** Mount Vernon and Trouble Bore Projects highlighting new Exploration Licence Applications.

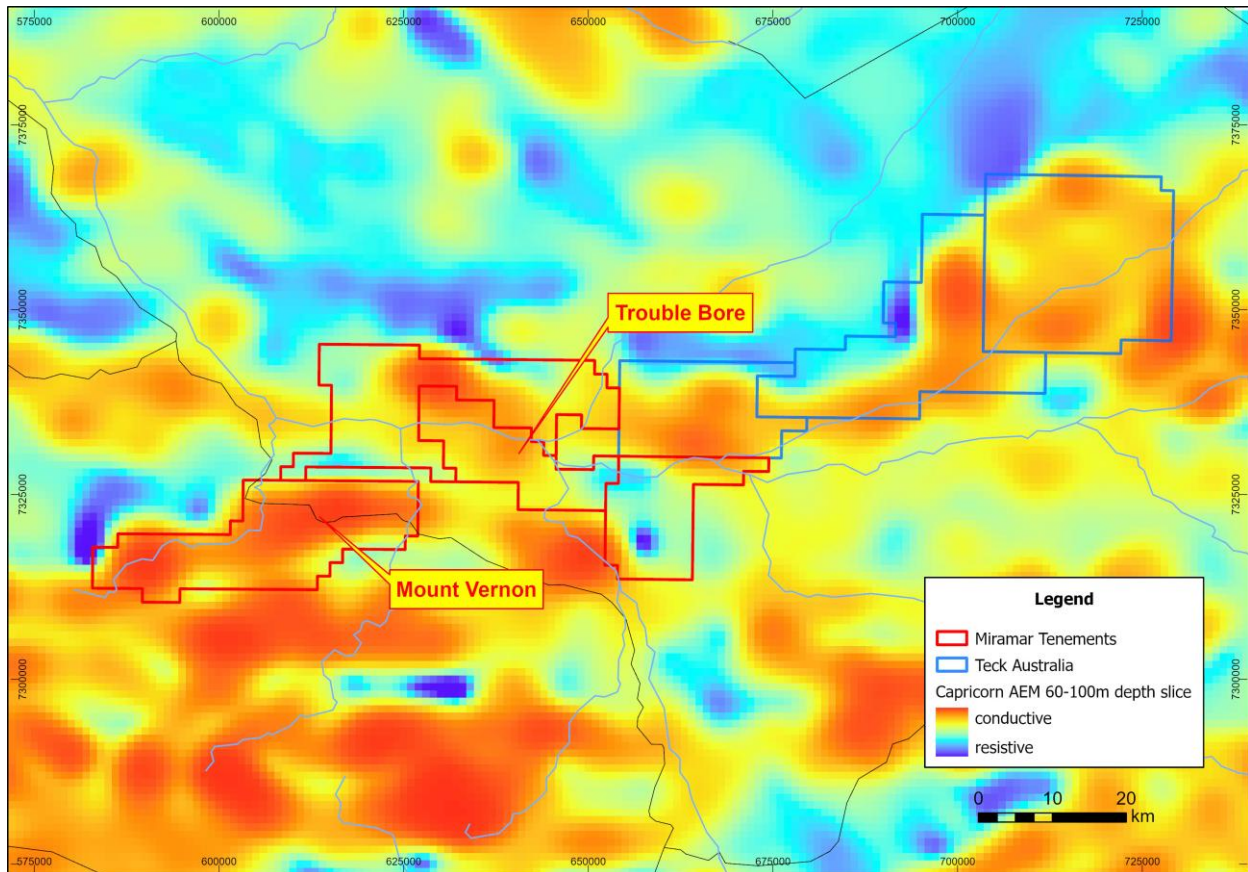


**Figure 2.** Geoscience Australia Ni-Cu-PGE prospectivity mapping results (Report 2016/01).

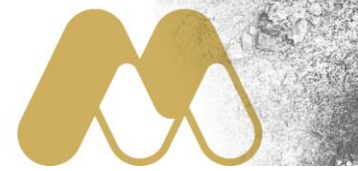




**Figure 3.** CSIRO Ni-Cu prospectivity analysis



**Figure 4.** 2013 Capricorn AEM data (60-100m conductivity depth slice).



For more information on Miramar Resources Limited, please visit the company's website at [www.miramarresources.com.au](http://www.miramarresources.com.au), follow the Company on social media (Twitter @MiramarRes and LinkedIn @Miramar Resources Ltd) or contact:

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This announcement has been authorised for release by Mr Allan Kelly, Executive Chairman, on behalf of the Board of Miramar Resources Limited.

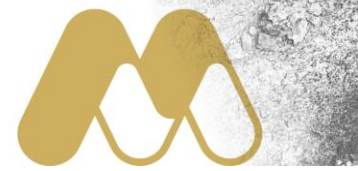
### COMPETENT PERSON STATEMENT

The information in this report that relates to Exploration Targets or Exploration Results is based on information compiled by Allan Kelly, a "Competent Person" who is a Member of The Australian Institute of Geoscientists. Mr Kelly is the Executive Chairman of Miramar Resources Ltd. He is a full-time employee of Miramar Resources Ltd and holds shares and options in the company.

Mr Kelly has sufficient experience that is relevant to the style of mineralisation and type of deposits 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 Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

Mr Kelly consents to the inclusion in this Announcement of the matters based on his information and in the form and context in which it appears.





**About Miramar Resources Limited**

Miramar Resources Limited is an active, WA-focused mineral exploration company exploring for gold, copper and Ni-Cu-PGE deposits in the Eastern Goldfields and Gascoyne regions of WA.

Miramar’s Board has a track record of discovery, development and production within Australia, Africa, and North America, and aims to create shareholder value through discovery of high-quality mineral deposits.

