



PROJECTS - AUSTRALIA



PROJECTS - ARGENTINA



ABOUT

PepinNini Minerals Limited is a diversified ASX listed Exploration Company focused on developing and discovering major new mineral deposits. The Company has secured strategically located exploration tenements in the Musgrave Province of South Australia, the Amadeus Basin of Western Australia and the Georgetown Inlier of North Queensland. A portfolio of prospective exploration tenements has been established in Argentina.

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ASX:PNN

MUSGRAVE AEM SURVEY COMMENCES

PepinNini Minerals Ltd (PNN) is pleased to announce that the collaborative Airborne Electromagnetic Survey (AEM) first announced in 2014 over the Musgrave Province has commenced.

The research collaboration between PNN and CSIRO (ASX:5 May 2014) will involve a staged approach to geophysical data acquisition and interpretation for the first time over this vast area of the Musgrave Province of South Australia using the latest electromagnetic systems over terrain highly prospective for magmatic Ni-Cu-PGE deposits (*Figure 1*).

The work is to be undertaken in collaboration technically and with co-funding with the South Australian Department of State Development (DSD – through the PACE Initiative), the Goyder Institute for Water Research (GI) and Geoscience Australia (GA) who are undertaking a new regional AEM Survey primarily focused on mapping water resources (location, extent and geological controls). This regional Survey will capture approximately 16,000km of new AEM data over the central and eastern Musgrave Province of South Australia (*Figure 2*).

PNN will contribute funding (*set aside in 2014*) of up to \$200,000 in collaboration with funding from DSD, GI, CSIRO and GA for a combined project value in excess of \$2.0m.

The regional survey comprises two parts; a western block which will be covered using the Tempest® airborne fixed-wing time-domain electromagnetic (TDEM) survey system flown by geoscience group CGG, and an adjoining eastern block which will be flown by SkyTEM™ Surveys using the helicopter mounted SkyTEM312^{FAST} TEM system.

The follow-up collaborative research program between PNN and CSIRO will build on the regional AEM survey by employing a multi staged approach to the acquisition of data. An emphasis will be placed on dynamic near real-time (24hour) review of regional data which may lead to further data acquisition over targets of interest within PNN tenements using optimised in-fill, closer spaced lines, and line orientations to best facilitate the potential identification of buried mineral systems (*Figure 2*).





The research application of airborne electromagnetic survey techniques may determine the presence of any significant bedrock conductivity responses associated with the identified regional magnetic and gravity targets that may indicate massive or semi-massive nickel-copper-cobalt and PGE sulphide accumulations. In addition it will rapidly identify areas of conductive overburden where electromagnetic responses may be masked and prove infill data acquisition to be an undesirable investment.

PNN looks forward to working alongside CSIRO and utilizing technical innovation to provide rapid target delineation in high priority areas.

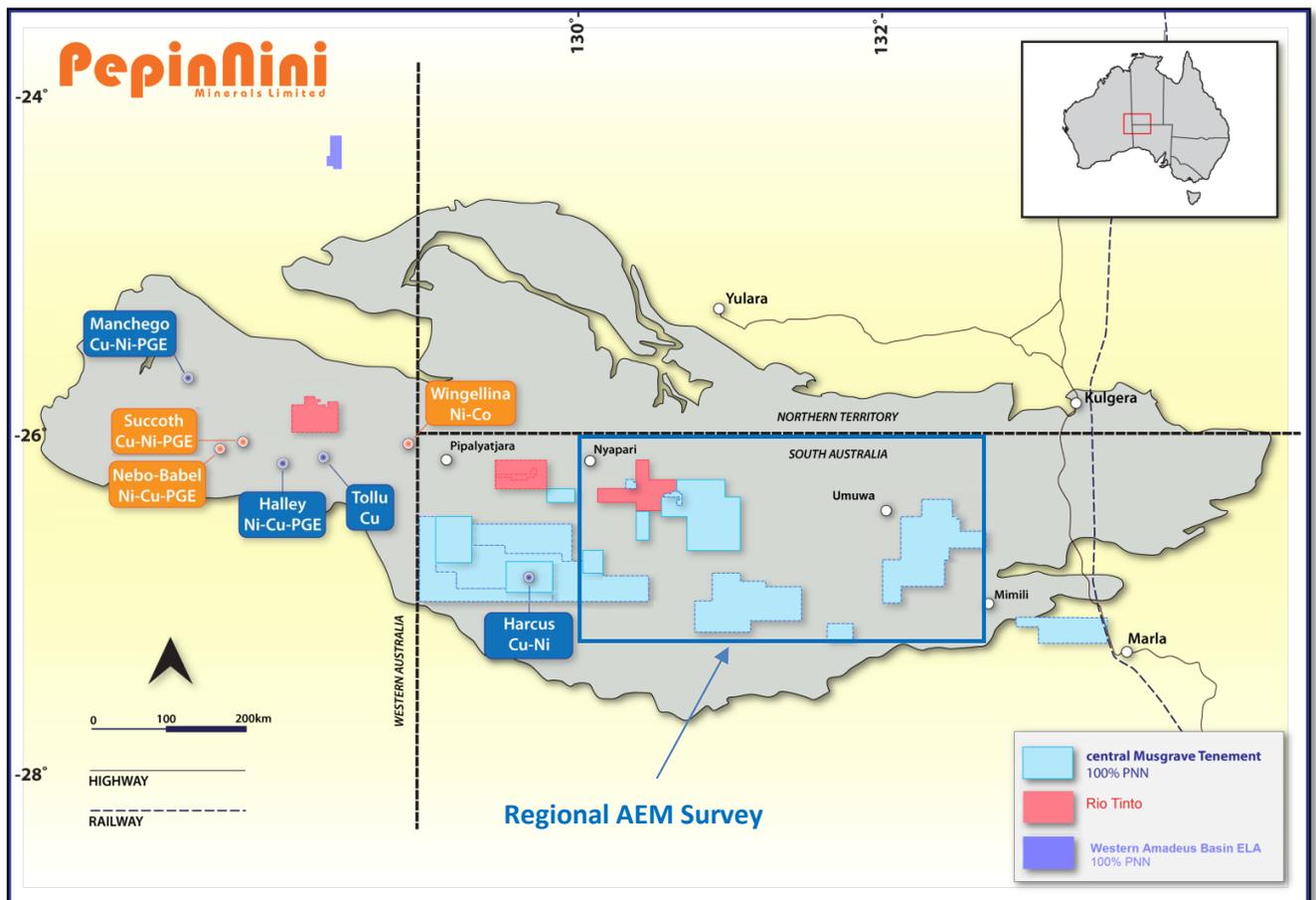


Figure 1: PNN's Musgrave Project tenement locations showing area of regional AEM Survey.

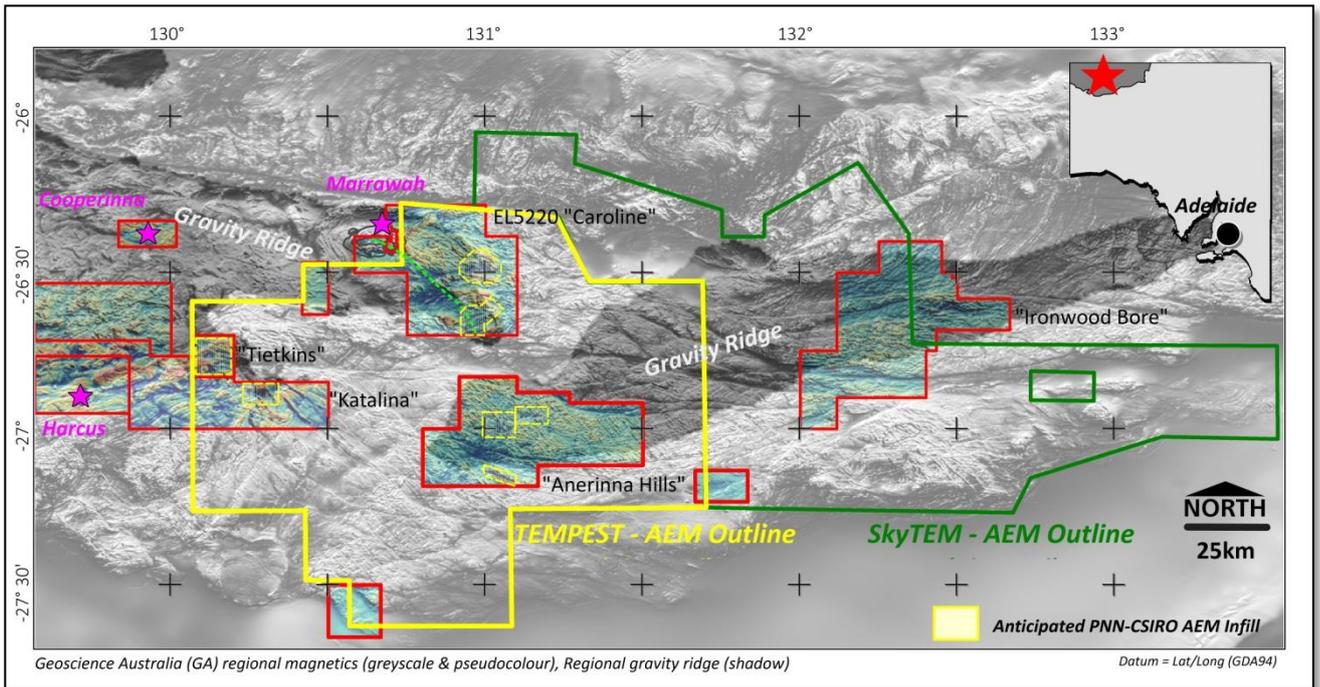


Figure 2: Airborne Electromagnetic Survey Areas (Tempest & SkyTEM) – showing PNN tenure, central Musgrave Region South Australia