



Arcoona

E31/1203 Arcoona – 61 Sub-Blocks (171sqkm)

Commodity: Gold, Nickel, Platinum Group Elements

ASX:NMR

Project Highlights

E 31/1203 Arcoona

- Geophysics derived buried greenstones that have not been drill tested.
- Greenstones are the same as found in the Kurnalpi goldfield.
- Potential for Ni/Co/PGE mineralisation in major dykes that cross the tenement.
- Located 5km from Carouse Dam gold mine (>1.2Moz resource)

Arcoona Exploration Rationale

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Proven Gold Anomalies in Under Explored Terrain

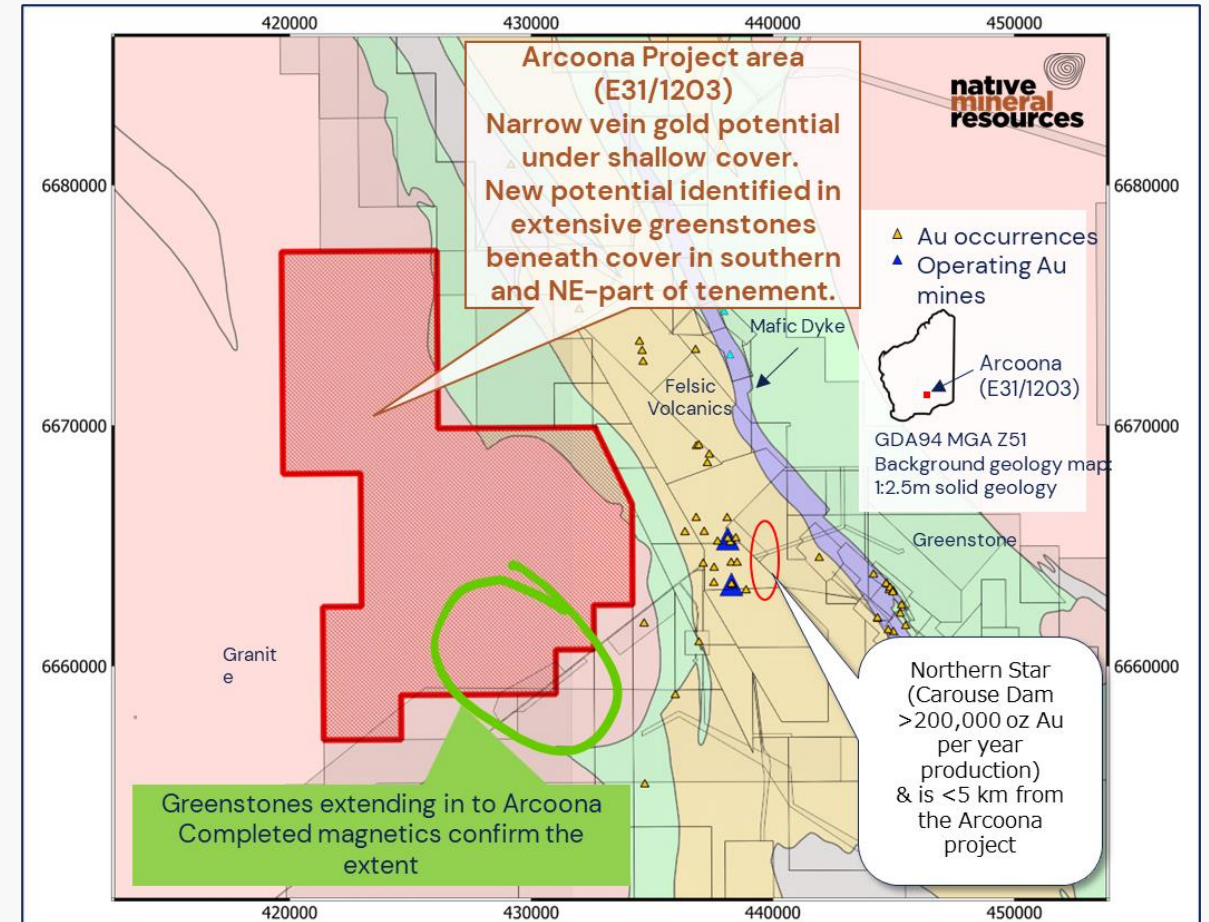
- Soil geochemical sampling shows gold occurrences above regions where greenstones are found on the tenement.

Adjacent to Major Gold Deposits

- Northern Star's Carouse Dam gold mine located only 5km to the east.

New Opportunities Arising from New Data (Previously Been Overlooked)

- **Buried greenstones** (main gold bearing rocks of the Yilgarn) extending into tenement and un-tested!
- Gold and Nickel targets hosted within the recently interpreted extension of greenstones into the Arcoona tenement.
- NMR's nickel targets on the eastern margin of the tenement are in line with the same exploration targeting and success had by Blaze Minerals Ltd in identifying prospective **nickel (1m@ 0.76%)**, **cobalt (1m@ 860ppm)** and **chromium (1m@ 6,270ppm)** in drilling.

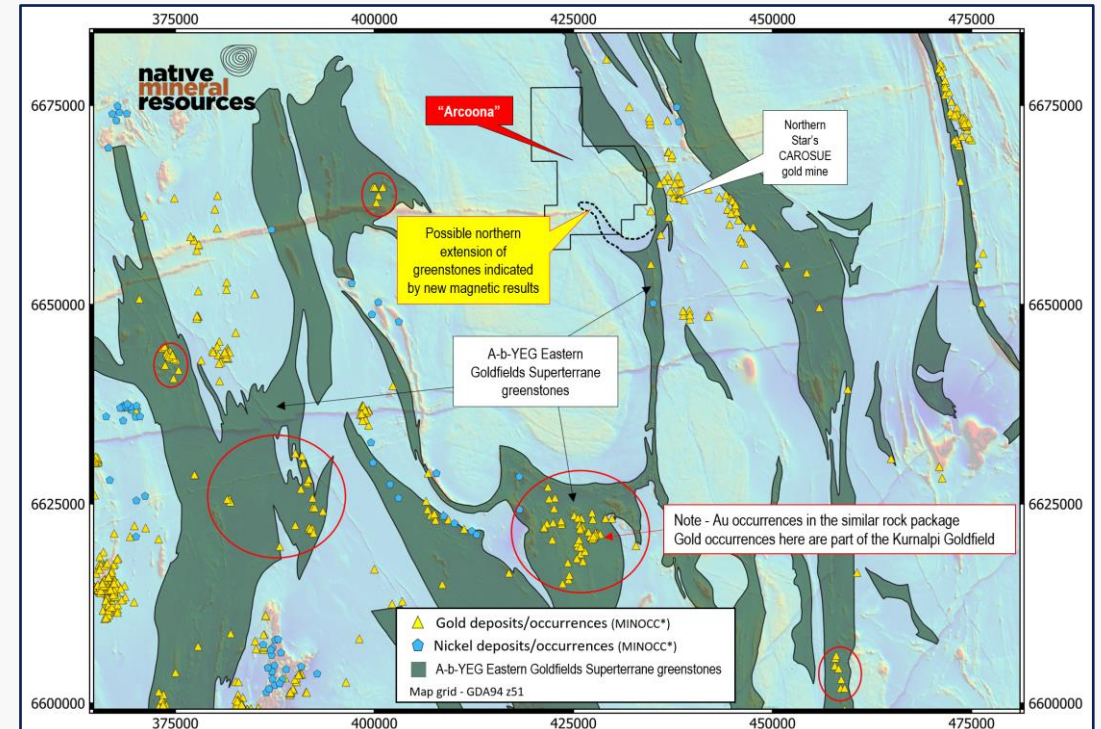
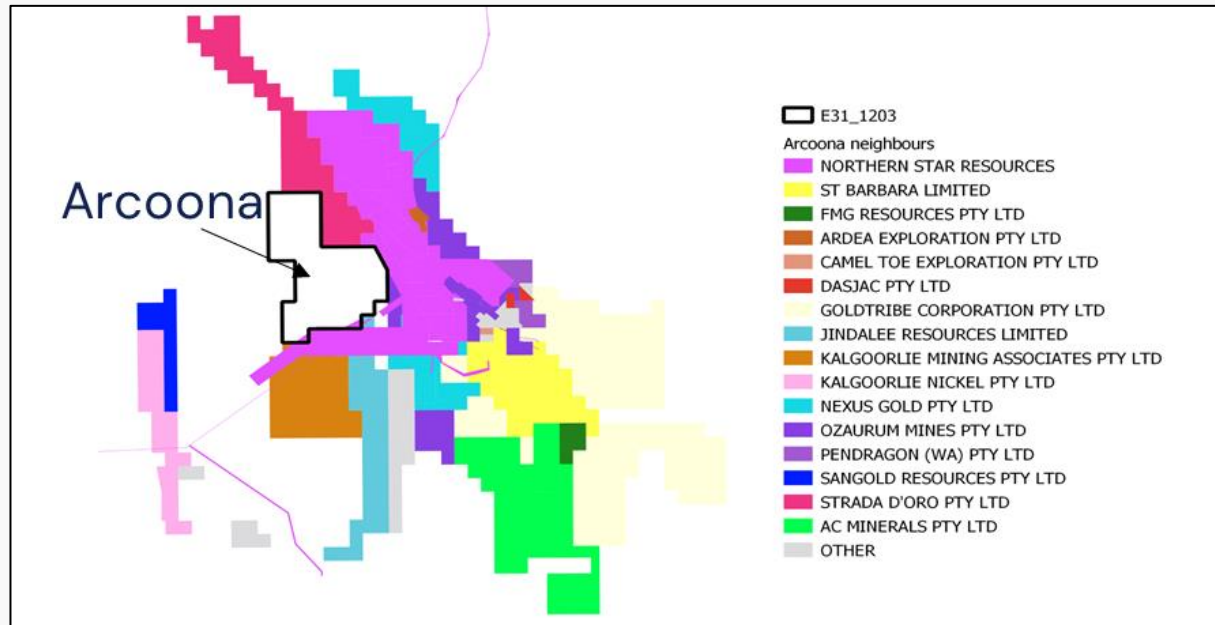


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Regional Yilgarn Deposits

- Arcoona covers part of the greenstone unit that is host to the famous Kurnalpi goldfields which is located 45km to the south
- Arcoona lies along the northern structural continuation of this same greenstone belt.
- Northern Star's **Carouse Dam gold mine (>1.2Moz resource)** is located 5km to the west.
- Arcoona surrounded by some of the largest gold explorers & producers including **Northern Star, FMG & St Barbara.**

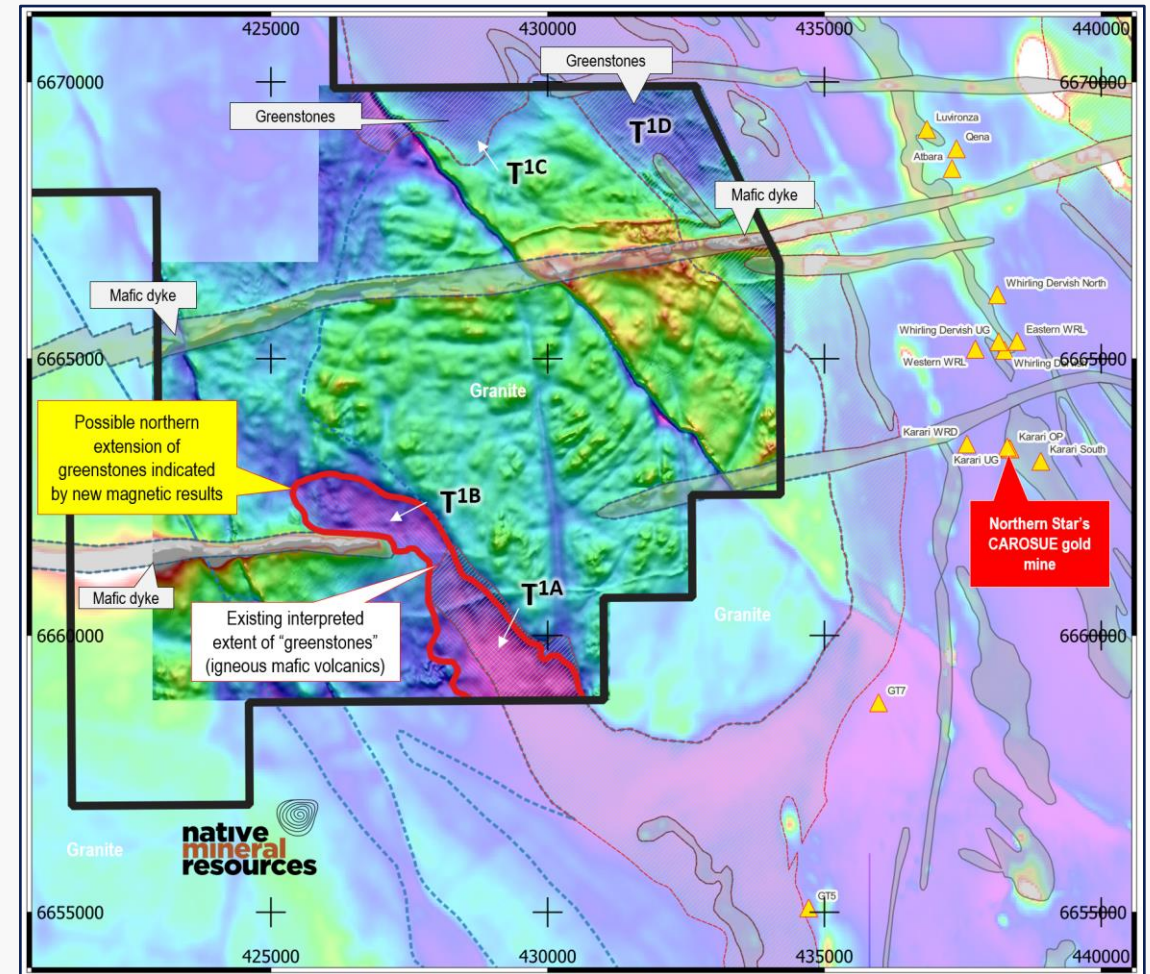


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NMR High Resolution Airborne Magnetics

- A 4,600-line km airborne magnetic and radiometric survey has been completed over the southern Arcoona tenement area providing unprecedented geophysical knowledge of the area.
- The survey has added additional support to the interpretation that greenstones extend beneath the cover at Arcoona.
- The data has reinforced and expanded the geological interpretation of a major greenstone belt extending north-west, into the southern part of the tenement & has generated 8 new targets.
- Delineates inferred greenstone units in the tenement (T1A – T1D).
- Southern greenstone targets (T1A & T1B) extend 5.5 km into the tenement and have not been tested by historical drilling.
- The buried greenstone belt extends to the Kurnalpi goldfield 40km to the south.
- Shows two narrow, NW-trending features interpreted to be faults & 2 E-W trending features that align with previous interpretations of the Widgiemooltha Dyke Swarm.

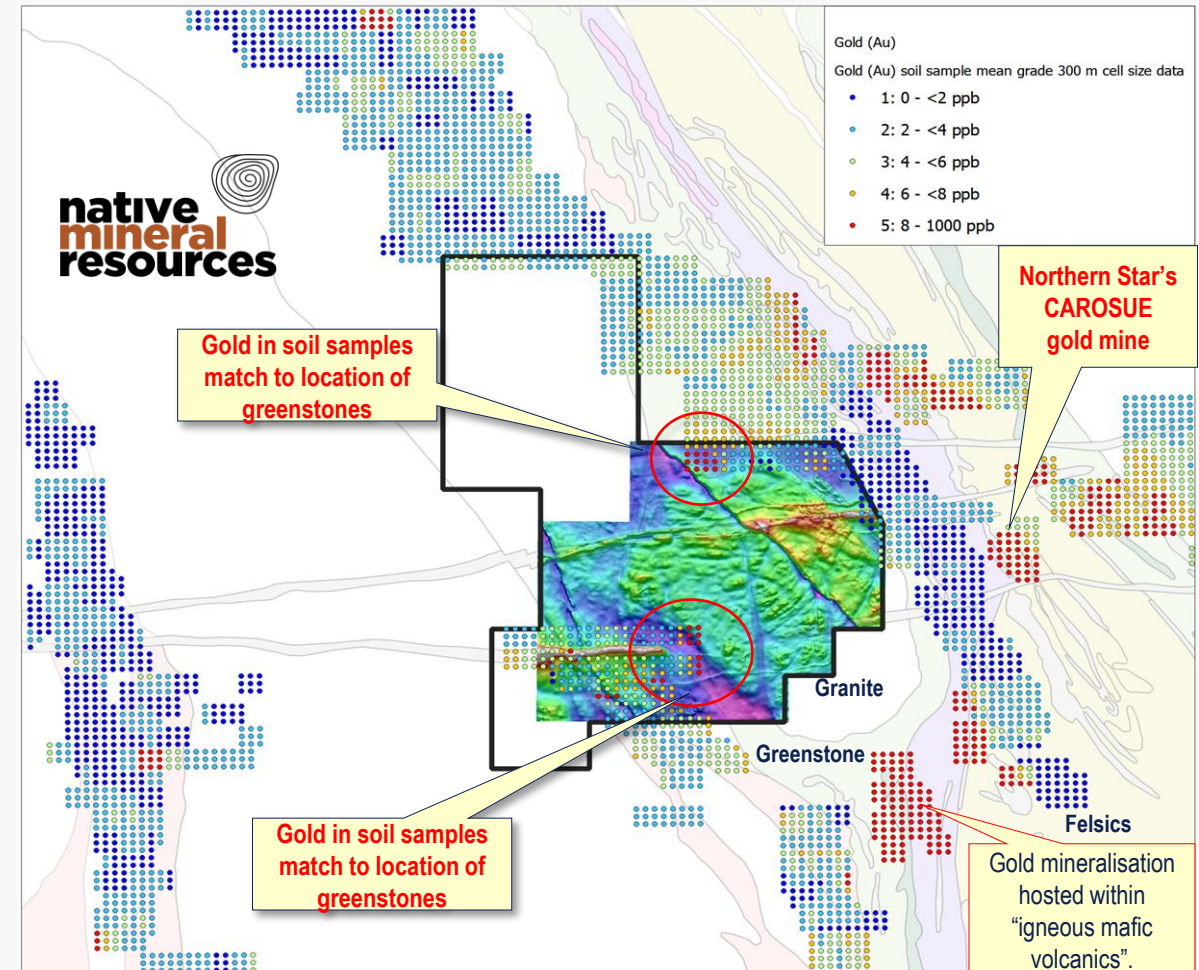


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Regional Historical Soil Sampling

- The historic soil sample dataset created by the Geological Survey of Western Australia shows the Arcoona region to be very prospective for gold.
- NMR has recognised a direct correlation between the interpreted greenstones on Arcoona and the location of anomalous gold (red circles in Figure).
- The dataset shows that both greenstones and felsic units are anomalous for gold.
- Large portions of the Arcoona tenement have not been sampled despite anomalous results on the edges of sampled areas.



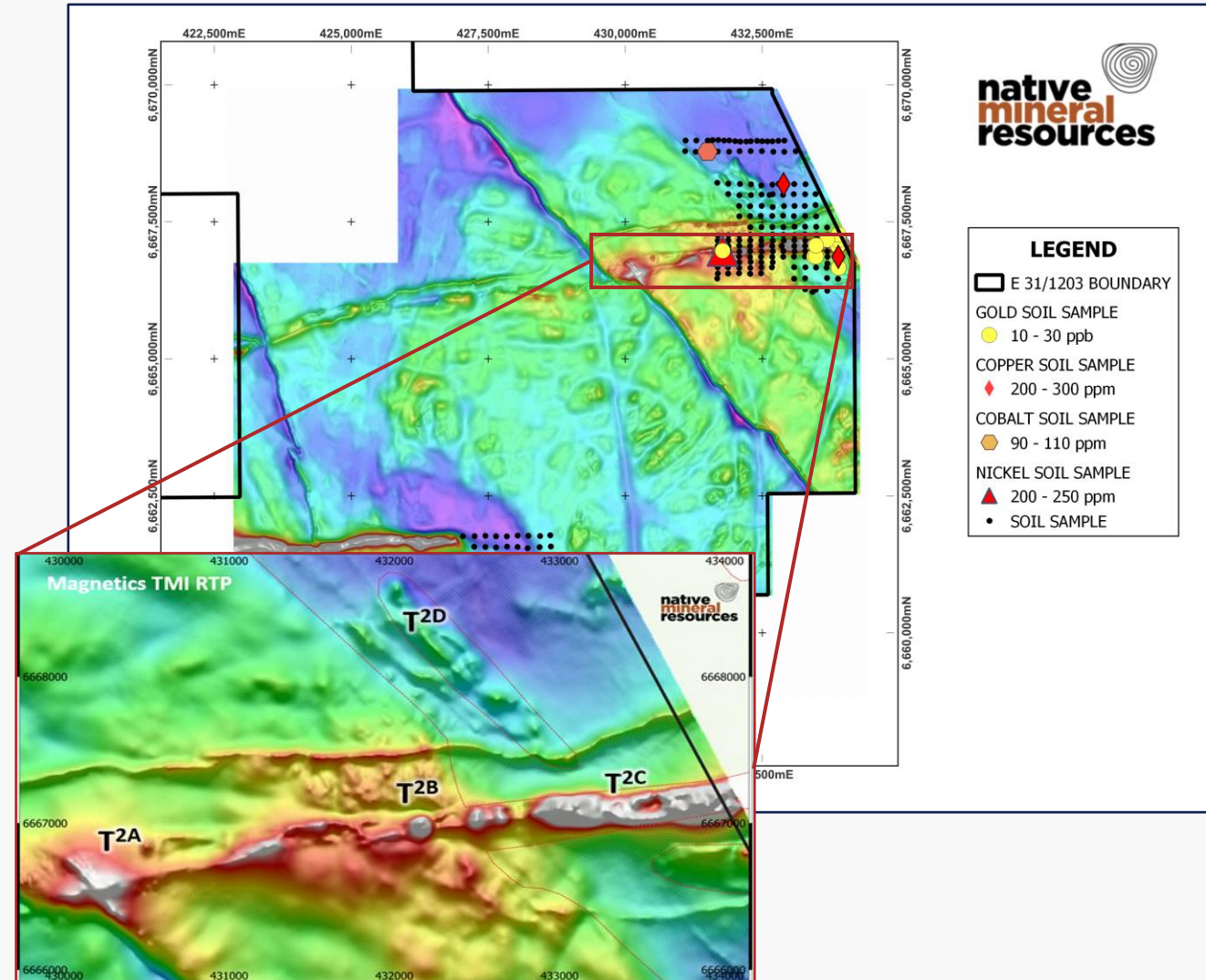
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Widgiemooltha Dyke Targets (T2A – T2D)

- Widgiemooltha dykes cross-cut the tenement and are, in turn, cut by two interpreted faults.
- Recent work at the Jimberlana project has recognised the prospectivity of the dyked for Ni, Cu, & PGE.
- Blaze Minerals has reported results of up to 1,804ppm Ni from RC drilling at Jimberlana*.
- Targets T2A – T2C are all highly prospective for Ni, Cu, Au and PGE mineralisation.
- Dyke structures have had little historical exploration with one
- Target T2D lies outside the dyke but is interpreted to be an extension of a mapped greenstone unit and is considered prospective for gold (see bottom Figure).

* Source: <https://www.blazelimited.com.au/projects/nickel-projects/#cojinup-creek-project>

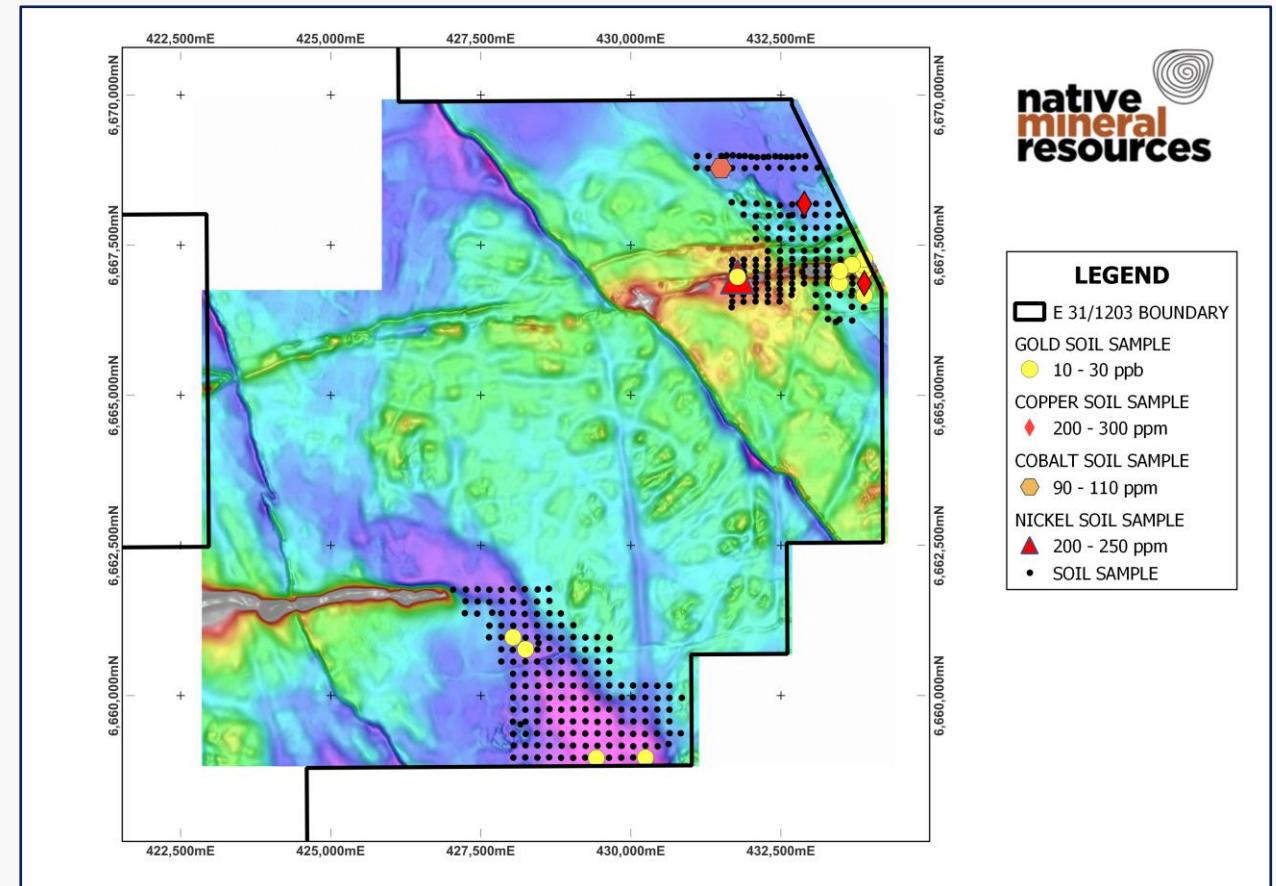


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NMR Ultrafine Soil Sampling

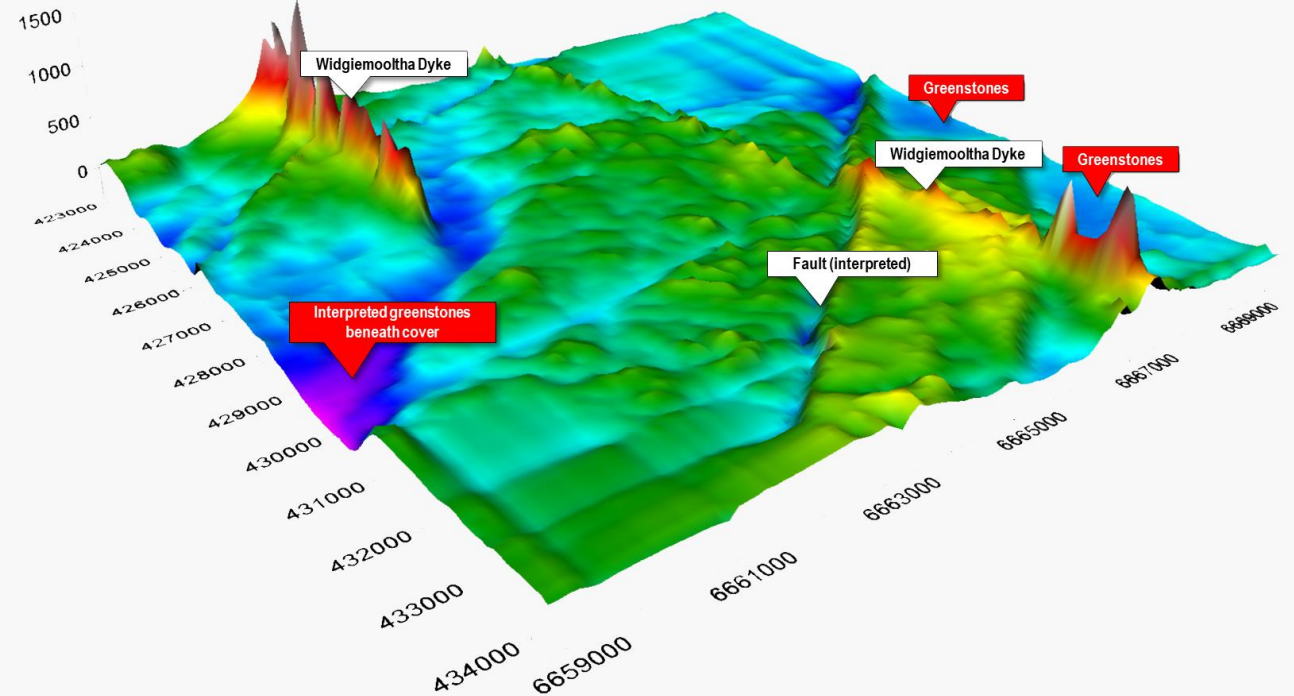
- NMR conducted an Ultrafine soil sampling program over the inferred greenstone target, T1A and the dyke targets T2B & T2c using LabWest's Ultrafine clay soil sampling technique.
- The results from the soil sampling were inconclusive, as the assays may have been affected by a calcrete layer located below the clay horizon that was sampled.
- Highest soil sample assays were **24.5ppb Au, 288ppm Cu, 110ppm Co & 234ppm Ni**.
- Most of the anomalous results plot over targets T2B & T2c while four anomalous Au samples overlay the inferred greenstone in the south at T1A (see adjacent Figure).



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- Model of magnetic results plotted with the Z-axis equivalent to magnetic TMI values in nT.
- Low values shown are interpreted as greenstones (see labels).
- The highest values are interpreted to correspond with the two main Widgiemooltha dykes cutting across the tenement and host granite.



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Authorised for release by Mr. Blake Cannavo, CEO.

Competent Person Statement

The information that relates to Exploration Targets and Exploration Results is based on, and fairly represents, information compiled by Mr Greg Curnow, a Competent Person, who is a Member of the AusIMM. Mr Curnow is the Chief Geologist of NMR. Mr Curnow has sufficient experience in both mining and exploration, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, 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 Curnow consents to the inclusion of the matters based on his information in the form and context in which it appears.



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