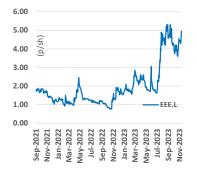


14th November 2023

Sector: Mining

Gold, copper & titanium exploration in Australia

Market data	
Markets	LSE – AIM
Ticker	EEE
Price (p/sh)	4.95
12m High (p/sh)	5.30
12m Low (p/sh)	1.28
Ordinary shares (m)	567.36
Mkt Cap (£m)	28.1



Source: Alpha

Description

Empire has a portfolio of natural resource projects in Australia and Austria. The company's main focus is on the high-grade Eclipse and Gindalbie gold projects in Western Australia and the Pitfield coppergold and titanium project, also in WA. www.empiremetals.co.uk

Board & key management

Non-Exec Chairman	Neil O'Brien
MD	Shaun Bunn
FD	Greg Kuenzel
NED	Peter Damouni

Analyst

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Empire Metals Limited

Pitfield just keeps Moving On Up...

Empire has now completed the three deep diamond drill holes at the company's Pitfield project in Western Australia. Assays are pending but core logging and portable XRF indicates that the entire length of each of the three holes is titanium mineralised and remains open to depth at 350m. Separately, geological mapping and sampling carried out over large previously identified geophysical anomalies has identified two new high-grade TiO₂ drill targets. Numerous rock chip samples exceeded 10% TiO₂ and one sample retuned 21.5% TiO₂. A more extensive 6,000m RC drill programme will commence later this month.

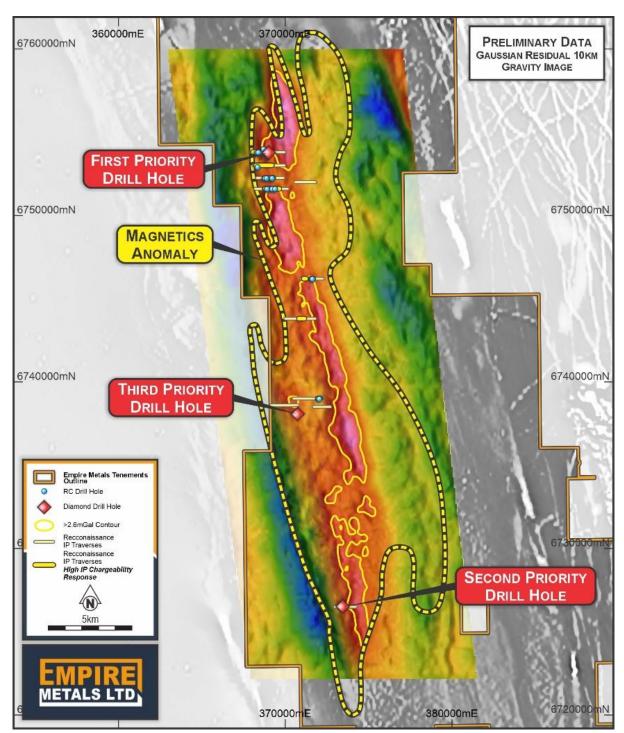
- Discovery background. The three deep, high impact diamond drill holes were designed to confirm the continuation of the high-grade titanium mineralisation discovered during the maiden RC (reverse circulation) programme in May. The maiden RC programme did not test any of the discrete high-density anomalies identified in the recent airborne gravity survey, a regional scale feature covering an area ~30km in length and up to 6km wide. Consequently, these diamond holes were strategically located to test this vast anomalous area, spaced many kilometres apart, and drilled at an angle, in order to attempt to get a handle on the scale potential of this emerging globally important titanium discovery.
- Part results are mind-boggling. Titanium mineralisation has been identified throughout the entire length of all three diamonds holes. This is staggering, not only because the holes are deep (each c.400m & angled, ∴ c.350m vertical depth) but also because they span an enormous 30km north-south distance along the largely coincident gravity and magnetic anomaly. Even more intriguingly, the geological setting and stratigraphy varies in each of the three holes, yet they are all titanium mineralised from start to finish. The holes intersected various sedimentary successions of interbedded sandstones and siltstones (Mt Scratch formation) and/or the Beaconsfield conglomerate formation, but all holes display evidence of strong hydrothermal alteration and titanium. This suggests to us that there was an extremely large and long-lived hydrothermal mineralising system in the area and Empire has probed only a very limited area so far.
- ▶ Even more new targets identified. A comprehensive mapping and rock chip sampling programme was completed during September-October 2023 over previously unexplored ground within the 40km by 8km regional geophysical anomaly. In addition to defining the outcrop of target rocks, 310 rock samples were collected, with 202 assay results received to date. The rock chip results have defined a high-grade area over 3km by 2km in the vicinity of diamond drillhole #2, as well as a 3km by 1km area close to diamond drillhole #3 which are now priority drill targets for the next programme.
- Fractional Process Pr
- The challenge for Empire now is to evaluate this very large project and vector in on areas with high grades and continuity, with focused exploration keeping one eye on potential resource and development pathways. More mineralogical work will also be key to determine metallurgical processing options and the completed diamond holes will help with this by providing core for testwork. There is still much to learn about this unique titanium occurrence but with excellent grades and the obvious scale potential, it is one of the most gripping new discoveries we have seen for a very long time.
- The next drill programme. A much larger RC programme (40 holes, 6,000m) along the length of the high-density gravity core (within the regional magnetic anomaly) will focus on these recently identified high-grade areas. Drilling is due to kick off later this month.

Pitfield continues to deliver the goods. There are still many questions on how the pieces of this giant titanium system fit together but it's still early days and the next RC drill programme will be highly instructive. Empire is not short of upcoming news catalysts.

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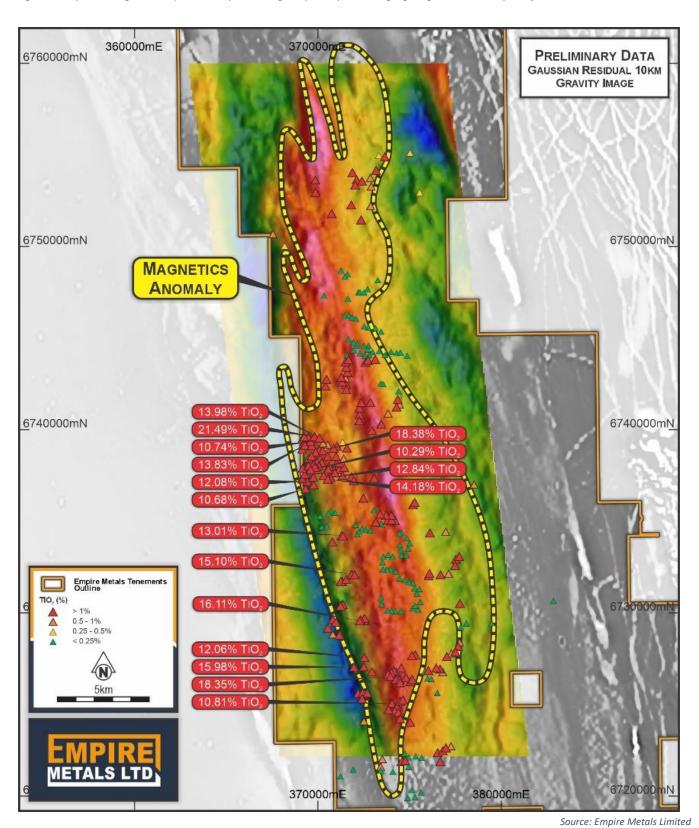
Figure 1 Grey-scale magnetics map overlain by airborne gravity survey results with indicative highest density zones (solid yellow outlines) and locations of diamond core drill holes and maiden RC drill holes/IP survey lines.



Source: Empire Metals Limited



Figure 2 Grey-scale magnetics map overlain by airborne gravity survey results highlighting recent rock chip sample locations and TiO₂ values.





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