

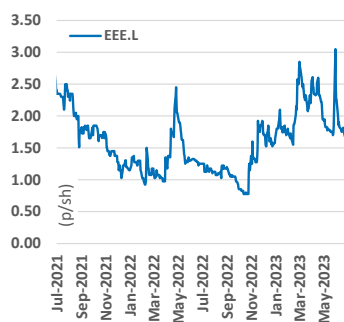
3rd July 2023

Sector: Mining

Gold & copper exploration in Australia

Market data

Markets	LSE – AIM
Ticker	EEE
Price (p/sh)	1.6
12m High (p/sh)	3.05
12m Low (p/sh)	0.77
Ordinary shares (m)	427.3
Mkt Cap (£m)	6.85



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 copper-gold and titanium project, also in WA. www.empiremetals.co.uk

Board & key management

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FD	Greg Kuenzel
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Substantial scale of titanium mineralisation confirmed at Pitfield

In late May, titanium mineralisation was identified in all but one of the 21 holes drilled as part of the maiden RC programme at Empire's Pitfield project in Western Australia. On the back of this, a detailed review of historical geochemical data has now confirmed titanium oxide (TiO₂) enrichment over virtually the entire 40km length of the previously outlined magnetic anomaly in the area. Two ~50km² areas of high-grade TiO₂ have also been identified in the Mt Scratch area and remain open in all directions. Planning is underway for a second drill campaign to follow up on this potentially significant new discovery of titanium mineralisation.

- **Background.** Empire recently completed a 21 hole, 3,206m reverse circulation (RC) drill programme with the aim of testing geophysical anomalies identified in the prior induced polarisation (IP) geophysical survey, primarily to identify potential copper mineralisation. Although the majority of holes were found to be anomalous in copper, the real surprise was the identification of laterally extensive and high-grade zones of titanium mineralisation (between 4% and 10% TiO₂) in all but one of 21 holes drilled, from very shallow depths (starting at or very near the surface), with many holes ending whilst still in mineralisation. Key intercepts included 152m at 4.4% TiO₂ and 120m at 4.72% TiO₂. Following this significant discovery, Empire has now conducted a detailed review of historical exploration work and data to investigate the potential for further titanium mineralisation over the entire anomalous area at Pitfield.
- **Historical data confirms major titanium discovery.** Review of work undertaken by previous explorers such as CRA (ConZinc RioTinto of Australia) has confirmed that Empire is dealing with a potentially significant occurrence of TiO₂. Empire has compiled, digitised and integrated all available data on the area with a focus on titanium, which includes a substantial database of geochemical data (soils, stream sediments, augers etc). CRA was focused on copper exploration at the time, and the revaluation of this data in light of Empire's titanium discovery adds a **completely new dimension to the exploration story at Pitfield**. The review of the CRA database shows very high levels of TiO₂ (>1% TiO₂) correlating with the 40km long regional magnetic anomaly, the key focus area for Empire.
- **Including two high-grade areas.** In addition to broad titanium anomalism along the entire length of the 40km anomaly (stream sediments assaying above 1% TiO₂ and peaking at 8.6% TiO₂), the CRA data outlines two 50km² areas of higher-grade TiO₂ enrichment, one in the immediate vicinity of Mt Scratch (extended from 3km²) and the other 20km to the south near the historical Baxter's Mine. Slightly lower TiO₂ values were detected along the eastern margin of the anomaly which may be due to the presence of transported cover and Empire will investigate this further.
- **Next steps.** With less than 2% of this regional magnetic anomaly drilled to date, planning is underway for a follow-up programme to include both RC and diamond drilling. The company remains well funded, with cash resources of £1.8m. Empire plans to test the entire length of the magnetic anomaly to confirm the scale of this titanium enriched system. In addition, petrographic and mineralogical work on RC samples is underway to define the nature of the titanium mineralisation including to what extent the TiO₂ is hosted by the key economic titanium minerals, ilmenite and rutile, and the commercial implications of the mineralogy.
- **Potential to define a major new titanium play in a Tier 1 jurisdiction.** We view this verification of the recent titanium discovery as highly encouraging. Although it's still at an early stage, the importance of the data received to date should not be understated. The TiO₂ grades appear to be decent but importantly, initial observation indicates that substantial scale and volume could be generated given the thick intercepts from shallow depth over such a large area. Titanium is a strategic mineral and regarded as a critical resource. TiO₂ imparts opacity and therefore TiO₂ pigment accounts for c.90% of feedstock demand for paper & coatings, plastics and paper and thus demand is strongly correlated to GDP growth per capita. The remaining market for titanium metal is small in volume terms but exceptionally fast growing with titanium's high strength to weight ratio, corrosion and heat resistance providing tangible benefits to numerous aerospace, defence and industrial applications. **With further work, Empire's discovery could provide an intriguing commercial development opportunity** given that many of the titanium-containing mineral sands deposits in Australia are in coastal locations where competing land-use results in a challenging environment to permit and develop a major mining operation. Watch this space.

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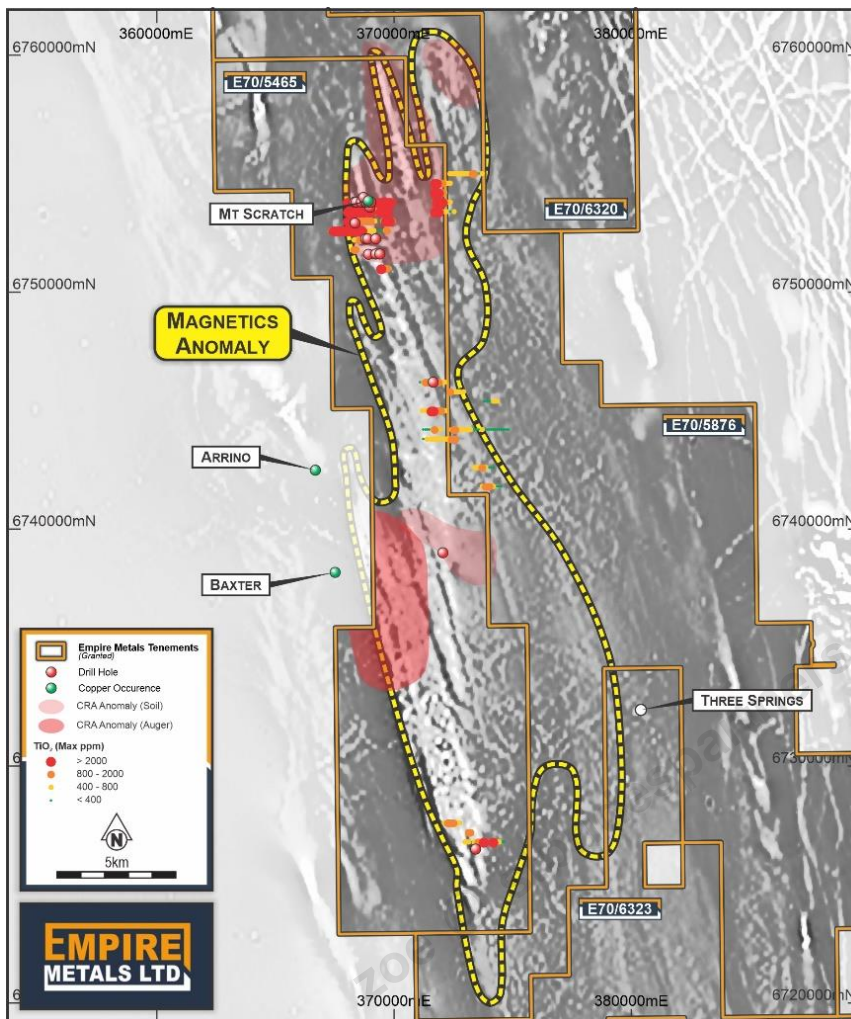
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Figure 1 - Pitfield Project Location showing the scale of the hydrothermally altered, 40km regional magnetic anomaly

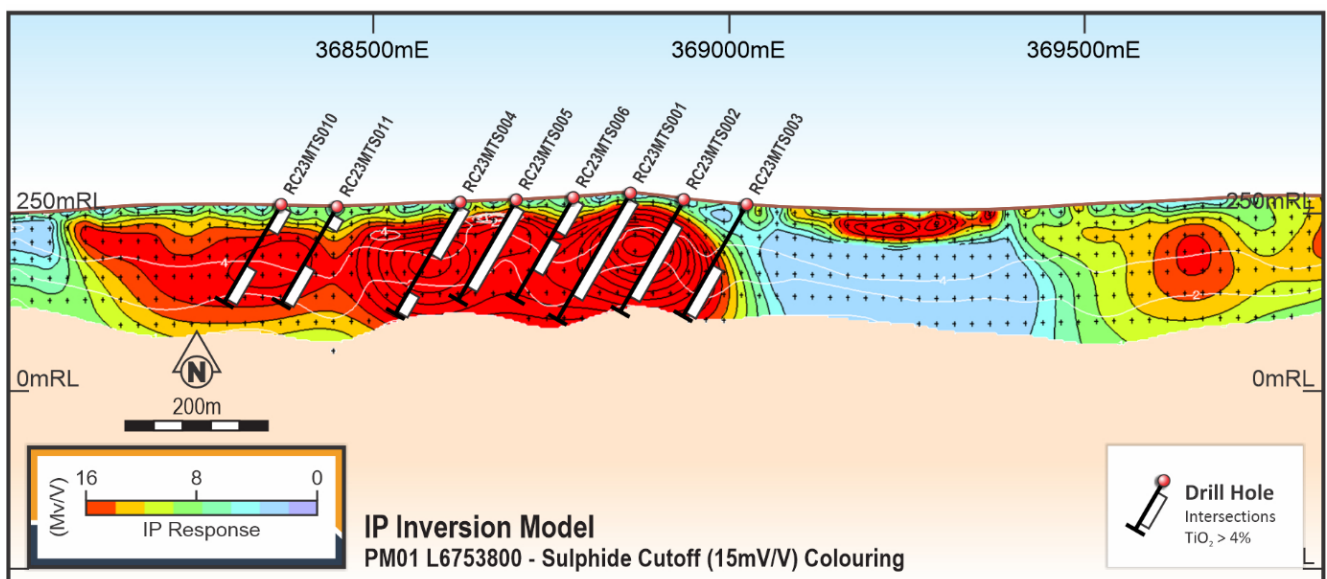


Source: Empire Metals Limited

Figure 2 - Empire Elevated TiO_2 Soil Sample and Drill Collar Locations and CRA TiO_2 soil and auger anomalies (shaded red)



Cross Section from recent drilling showing TiO_2 intercepts across IP Traverse



Source: Empire Metals Limited (both images)

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