Resources Limited

FYI Enters Rare Earths Sector

May 9th 2023

Resources technology company & critical minerals developer

ASX:FYI FSE:SDL OTC:FYIRF

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Competent Person's Statement

Ore Reserves

The information in this report that relates to Ore Reserves is based on information compiled by Mr. Steve Craig, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Steve Craig is a full-time employee of Orelogy Consulting Pty Ltd and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are 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". The information is extracted from the Ore Reserve announcement released within the DFS announcement 8 April 2021 and is available to view on the Company's website at www.fyiresources.com.au

Mineral Resources

The information in this report that relates to Mineral Resources is based on information compiled by Mr Grant Louw, under the direction and supervision of Dr Andrew Scogings, who are both full-time employees of CSA Global. Dr Scogings is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. He is a Registered Professional Geologist in Industrial Minerals. Dr Scogings has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the "Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves". The information is extracted from the PFS announcement dated 25 September 2018 and is available to view on the Company's website at www.fyiresources.com.au

Metallurgy

The information in this report that relates to metallurgy and metallurgical test work is based on information reviewed and compiled by Mr Alex Borger, a Competent Person who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr Borger is an employee of Independent Metallurgical Operations Pty Ltd, and is a contractor to FYI. Mr Borgers has sufficient experience that is relevant to this style of processing and type of deposit under consideration, and to the activity that he has undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves". Announcements in respect to metallurgical results are available to view on the Company's website at www.fyiresources.com.au.

General

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the findings in the relevant market announcements continue to apply and have not materially changed and that all material assumptions and technical parameters underpinning the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcement.

ACKNOWLEDGEMENT OF COUNTRY

We acknowledge the Traditional Owners and Custodians of the lands from which the minerals we process are recovered and from the lands where the processing takes place.

We pay respects to their elders, past present and emerging.

HPA PROJECT REMAINS FYI'S FOCUS

The rare earths strategy is a great adjunct to the HPA project

FYI's focus is on our core HPA project

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The HPA project metrics and market outlook remains compelling

The project team is being expanded and a re-engineered development plan and revised schedule has been established

Technical learnings and process optimisations will be incorporated into the new project development

Project development to the HPA investment decision is funded



Both HPA and rare earths projects demonstrate tremendous market opportunities via their development strategies





DELIVERY PATHWAY



Demonstrated HPA quality and purity. Market validated

Prove commercial production. Continue ongoing qualification

HPA production & cashflows. Deliver project value

* FYI HPA Project DFS April 2021

DFS - OUTSTANDING PROJECT ECONOMICS SUMMARY NPV SUMMARY (POST TAX)





OUR PRODUCTS ROLE IN DECARBONISATION

HPA and Rare Earths are enablers of many green technologies

RARE EARTHS



HPA



MINHUB TRANSACTION MOTIVATION

HPA remains our core focus



An opportunity to participate in the development of a potentially world class operation. Straightforward project delivery, low development cost, well resourced team, industry and Government support

Minhub rare earth strategy is complementary to our core HPA project. Combined capacity, project experience and technologies

Ideally positioned with credible industry partners. Collaborating with strategic parties. Government and industry support.





Perfect timing with Industry tail wind and sector growth. Contribute to Australia's sovereign supply chain capabilities



Complementary to FYI's high quality production, critical minerals and ESG objectives





WHY ARE RARE EARTHS IMPORTANT?

The rare earth elements are a set of 17 metallic elements. These include the 15 lanthanides on the periodic table plus scandium and yttrium, currently the economics are driven by the demand for 'magnet feed' rare earths.

Permanent rare earth magnets are used in direct drive electric motors and generators in electric vehicles (EV's), wind turbines, and numerous other applications essential for global decarbonisation.

Unlike hard rock and ionic clay deposits, rare earths are recovered from mineral sands deposits as a by-product to zircon and titanium minerals and are consequently at the bottom of the cost curve.

Monazite concentrate recovered from mineral sands is high-grade, typically(~60%) TREO) and is rich in Light Rare Earths including neodymium & praseodymium (NdPr).

Xenotime recovered from mineral sands is also high grade (~50%TREO) and is rich in heavy rare earths including magnet feed rare earths dysprosium (Dy) & terbium (Tb) Australia's Critical Minerals Strategy aims to grow the rare earths sector, expand downstream processing and meet future global demand

Neodymium, Praseodymium make up approximately 30% of Nd-Fe-B permanent magnets

Dysprosium & Terbium are used in small quantities (up to 5%) in specific high temperature applications such as EV drive chains

1000% demand growth by 2035

2035

2022

Adamas Intelligence forecasted NdPr consumption to increase 11-fold by 2035 and DyTb by >7-fold with growth restricted by supply

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WHAT IS THE MINHUB PROJECT?

- The Minhub Project is proposed as a mineral separation plant to be located in the Darwin Port Precinct, Northern Territory
- The Minhub Project will be co-owned by FYI & Arafura and managed by MOPL
- FYI and Arafura will co-fund the development of Minhub on a 50:50 basis to feasibility study – due early 2024
- Further funding to production will be on a 50:50 basis between FYI and Arafura or as agreed
- Minhub will sell traditional mineral sands products zircon, ilmenite, & rutile
- Monazite & xenotime will be either sold to targeted markets by Minhub or transported to Arafura's Nolans Project for further processing into rare earth oxides
- Good shared rail logistics with Nolans

WHY THE MINHUB PROJECT?

- Minhub Operations Pty Ltd (MOPL) is developing an independent collaborative mineral processing option for the mineral sands industry
- The Minhub project reduces the significant barriers to entry that emerging rare earth rich mineral sands projects face
- Rare earth minerals are co-products with zircon and titanium minerals which are highly concentrated markets
- The mineral sands industry has developed a structural reliance on the Chinese concentrate market to achieve value for contained rare earths which faces geopolitical headwinds
- For a decade junior companies have relied on the concentrate market enabling lower capex and lower permitting hurdles

COMMERCIAL FRAMEWORK



SIMPLIFIED FLOWSHEET FOR MINERAL SANDS PRODUCERS

MINH PESSENAI

THE



RARE EARTH SUPPLY CHAIN THROUGH THE MINHUB PROJECT



ALIGNMENT WITH AUSTRALIAS CRITICAL MINERALS STRATEGY





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ALIGNMENT WITH GLOBAL ESG BEST PRACTICES

Developing an ethical alternative heavy rare earths supply

98% of heavy rare earths come China & Myanmar

- Chinese heavy rare earths entirely from ionic clay (40% now from Myanmar's ionic clay production
- Legacy of environmental destruction over large areas
- In situ leaching (direct application of chemicals, solar evaporation of chemicals)
- Ethical dilemma for EV manufacturers, customers and governments. Pressure on electric vehicle manufacturers to limit use of Dysprosium and Terbium essential for the transition to net zero.



An ionic clay deposit in Jiangxi, China (Reuters)

Victorian Mineral Sands offer an ethical alternative

- Xenotime rich deposits in the Gippsland and Murray Basins.
- Almost 100 years of mining history on Australia's east coast beaches, south Western Australia and Murray Basin
- Rehabilitation of productive farmland with high agricultural productivity
- Restoration of native landscapes from marginal grazing and old plantations



Rehabilitated mineral sands mine southwest Australia

FYI'S RARE EARTHS STRATEGY

Minhub is collaborating with mineral sands developers with significant rare earth resources The Minhub Project will value-add mineral sands concentrates and produce finished mineral sand products including monazite & xenotime The Minhub Project aims to be a key part of a sovereign supply chain solution for rare earths



Minhub is securing feedstock supply and collaborating with Arafura in the development of the Minhub Project MOPL and Arafura will cooperate in the downstream development of heavy rare earth separation



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For personal use onl

Thank You



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