



ASX & Media Release

27 April 2023

ASX Symbol

ARL

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Issued Capital

Fully Paid Ordinary Shares
171,502,772

Performance Rights
7,082,000

Options
4,000,000

ABN 30 614 289 342

QUARTERLY OPERATIONS REPORT

For the Quarter ended 31 March 2023

Ardea Resources Limited (ASX:ARL) (**Ardea** or the **Company**) is pleased to provide the following report on its activities during the March 2023 Quarter.

MARCH 2023 QUARTER HIGHLIGHTS

\$14.5M cash-at-bank, supportive share register seeking development of the Kalgoorlie Nickel Project (**KNP**).

Kalgoorlie Nickel Project

The KNP Goongarrie Hub is the Company focus. The Preliminary Feasibility Study (**PFS**) to consolidate all current development models with previous study programs continues, with engineering, estimating and study management now at review stage ahead of sign-off.

The development strategy has been to focus on a proven hydro-metallurgical flow sheet that has a successful production track record.

Key March 2023 Quarter activities were:

- Flow sheet and plant design was settled, based on a 40-year ore feed model.
- Engineering estimates are being finalised.
- Pit optimisations were completed with plant feed focus being the premium goethite ore and a mining schedule that generates Mineralised Neutraliser for the plant and timely access to pit voids for tailings disposal.
- Plant layout finalised following sterilisation drilling of all potential infrastructure sites.
- Process water sources are being settled, with production bore tests completed at Goongarrie South and Siberia.

Strategic Partner Process

The KNP is a world-significant nickel resource with 5.9 million tonne of nickel in the ground (ASX release 16 June 2021). Most importantly, this resource and its proposed development entirely complies with the requirements of the landmark 2022 US Inflation Reduction Act (**IRA**) and 2023 EU Critical Raw Materials Act, ensuring that the KNP Strategic Partner candidates are of an elite level.

The ideal KNP Partner will likely be a consortium whose members are characterised by a proven track record in the resources sector covering design studies, funding, development, commissioning, and finally successful operation. Consortium offtake requirements will be a significant driver, with the KNP able to provide a stable, sustainable base load over multiple decades to the renewable energy battery sector.

To this end during the current and previous Quarter, working closely with Federal Government agencies, multiple overseas trips were completed for partnership discussions, as well as Partner candidate site visits to the Goongarrie Hub.

Ardea Managing Director, Andrew Penkethman noted:

“Having engaged with most of the significant IRA-compliant Battery Mineral procurement agencies over the last six months, it is crystal clear that in the Kalgoorlie Nickel Project, Ardea has an asset of immense strategic importance.

This importance covers all societal levels, from the local communities of the Eastern Goldfields, the State of Western Australia, the nation of Australia and indeed the democratic Western World. Our focus is aligning with the optimum development Partners to bring this globally significant nickel project to fruition.”



OVERVIEW

CORPORATE

Ardea Resources Limited (**Ardea** or the **Company**) is a Battery and Critical Minerals company focussed on its 100%-owned Kalgoorlie Nickel Project (**KNP**), which hosts the largest nickel-cobalt resource in Australia*. The KNP Goongarrie Hub is being advanced towards production by working with Commonwealth government Critical Minerals agencies, stakeholders and industry leading partners in completing feasibility programs. Development options may be through Partners who are able to earn a 50% offtake right, or alternatively Ardea may elect to extend its 100% ownership as the Company continues to advance this globally significant asset.

Such a strategy provides the Company with the opportunity to achieve the optimal outcome for stakeholders, as end-users continue to try to secure meaningful quantities of sustainable and ethical Battery and Critical Mineral supply. By Ardea retaining all off-take rights leading to securing of project funding, the Company maintains maximum optionality to continue to engage with a number of well-regarded potential Partners.

The Company is comfortably funded to complete its current KNP feasibility programs:

- Ardea remains debt free, with a tight capital structure and \$14.5M cash-at-bank to maintain momentum with work streams.
- \$1.8 million Research and Development (**R&D**) Tax Incentive Rebate for the 2022 financial year has been received from the Federal Government through the Australian Tax Office (ASX release 6 February 2023).
- Ardea is a grant applicant for the Federal Government Critical Minerals Development Program (**CMDP**).

Stakeholder and Government Engagement

In terms of Government interactions throughout Australia and overseas:

- Ardea is active with the Australian Federal Government through submissions on the Critical Minerals Strategy, Battery Strategy and National Reconstruction Fund.
- Overseas trips to Japan, South Korea, India, Europe and United Kingdom have been completed under the auspices of the Australian Trade and Investment Commission.
- Ardea has responded to US agencies in respect to feedback that has been sought in relation to the 2022 US Inflation Reduction Act (**IRA**).

During the Quarter, Ardea was invited to and attended a Critical Minerals Roundtable session hosted by the Honourable Madeleine King MP, Minister for Resources and Northern Australia, on the development of the Critical Minerals sector within Australia and also a Critical Minerals Roundtable with the Commonwealth Shadow Minister for Trade and the Senator for Western Australia. Discussions included future project funding and First Nations engagement.

An Ardea representative attended the Interbattery Conference in Seoul in March 2023 and presented at an Australian Critical Minerals Supply Chain forum at which Strategic Partner discussions were progressed.

Ardea attended a German government and industry Critical Minerals and Hydrogen round table and potential Partner meetings in Perth.

Engagement with multiple stakeholders continues with Team Ardea active with traditional custodians of the KNP land, the Eastern Goldfields pastoralists, the City of Kalgoorlie-Boulder, Shire of Menzies, State of WA Department of Mines, Industry Regulation and Safety (**DMIRS**), WA Department of Jobs, Tourism, Science and Innovation (**JITSI**) Commonwealth of Australia Critical Minerals Office (**CMO**), Export Finance Australia (**EFA**), Australian Trade and Investment Commission (**Austrade**), Department of Foreign Affairs and Trade (**DFAT**), Major Projects Facilitation Agency (**MPFA**) and in research the Future Battery Industry Cooperative Research Centre (**FBICRC**).

The KNP mineral resource was also included in the Geological Survey of Western Australia nickel-cobalt investment flyer, as the largest nickel resource in Western Australia (and therefore the largest in Australia), and the Commonwealth Government's 2023 Australian Critical Minerals Prospectus.

* Ardea ASX release 16 June 2021 and 21 March 2022.



Strategic Partner Process

Multiple international companies and organisations continue to engage with Ardea seeking to secure nickel-cobalt off-take from the KNP. During the March 2023 Quarter, additional Non-Disclosure Agreements have been signed, site visits hosted, and multiple parties are active in the KNP Virtual Data Room.

All groups with whom Ardea is engaging, seek to secure sustainable and ethical nickel-cobalt mineral supply from Western Australia, which is a favoured geopolitical jurisdiction for the Lithium Ion Battery (**LIB**) sector. Ardea's preference is to partner with an organisation or consortium of Partners who have strong resources sector experience and are from jurisdictions that are key trading partners and allies of Australia, in compliance with the IRA.

The Company requires off-take to be conditional upon the off-take Partner facilitating a project development funding mechanism.

Ardea aims to work with the preferred Partner/s to refine the scope of work of the planned Definitive Feasibility Study (**DFS**) to ensure that the final DFS flow sheet and end-product specifications meet the Partners' needs.

KNP Development Funding:

Continuing discussions with multiple Export Credit Agencies (**ECA**), notably Export Finance Australia, and with debt/equity advisors.

Ardea's preferred investment model is to retain off-take and link this to favourable ECA funding terms. The funding option for the KNP Goongarrie Hub development is a mixture of project debt and project equity, with long tenor, low interest rate ECA debt funding terms being contemplated.

Health and Safety

There were nil incidents or LTIs recorded during the Quarter, which is most commendable in view of the extensive field programs completed, notably drilling.

Ardea's Senior Health Safety and Environmental Advisor has reviewed and updated all policies, procedures, training requirements and other safety documentation including site inspections in line with the changes that came into effect through the implementation of the Work Health and Safety Act WA 2020 and the Work Health and Safety (Mines) Regulations WA 2022. As a result, the Mine Safety Management Plan (**MSMP**) that forms the main requirements for the Mines Safety Management System (**MSMS**) has been completed prior to the end of March 2023 deadline. Regular reviews of the MSMP will be initially undertaken within 12 months of being implemented. In addition, a Health and Safety representative has been nominated on site, who completed a relevant OHS training course in February 2023.



Figure 1: The Ardea Kalgoorlie Team at West Kalgoorlie base (Left), In the field at Ghost Rocks (Centre) and Perrinvale (Right)



DEVELOPMENT

Kalgoorlie Nickel Project

KNP PFS work streams on the Goongarrie Hub:

A highly experienced and well-regarded executive in the resources sector, Matthew Read, joined Ardea as the KNP Project Director in February 2023.

- Goongarrie Hub (**Goongarrie**), base case two x 1.5Mtpa Goethite Grind High Pressure Acid Leach (**HPAL**) autoclaves with acid, heat and energy balance facilitated by Grind Atmospheric Leach (**AL**) 0.3Mtpa Serpentine clay + 0.2Mtpa Neutraliser Fines. Of critical note the 3.5Mtpa base case incorporates proven hydrometallurgical technologies successfully utilised at several existing nickel laterite operations world-wide.
- PFS base case end-product is Mixed Hydroxide Precipitate (**MHP**), which is the new Class 1 nickel for Lithium Ion Batteries. Ardea will evaluate going further downstream to precursor Cathode-Active Material (**PCAM**).
- Hydrometallurgical sample assay results **confirm the 2021 resource models** and metallurgical test work attains **maximum resource utilisation** and **optimisation of the low-carbon flow sheet supporting the Mineralised Neutraliser concept and lowering CO₂ emissions**[†].
- PFS work streams conducted during the March 2023 Quarter include:
 - Preliminary Capital Cost Estimate and Operating Cost Estimate reviews undertaken. Optimisation work is continuing.
 - Operations personnel numbers and classifications reviewed and updated. It is aimed to maximise staff being based in Kalgoorlie-Boulder for drive in/drive out work travel.
 - Resource optimisation and detailed mine schedule with open pit mine designs have been received and reviewed, with minor schedule tweaking.
 - KNP Process Plant aircore sterilisation has been completed with no significant gold nor nickel sulphide anomalism in the proposed process plant and infrastructure sites.
 - International engineering consultants Wood plc were awarded the Non-Process Infrastructure (**NPI**) engineering and associated capital cost estimating scope of services.
 - PFS Report write-up continuing towards completion.
 - Logistics Study for domestic deliveries covering Bulk Sulphur, Lime, MgO and MHP completed.
 - Plant layouts completed.
 - Project Development Schedule under development.
 - Mass Energy Balance and SysCAD model updated.
 - Beneficiation Circuit layout and design completed.
 - Major equipment specified.
 - Expanded development footprint Autumn fauna, flora and vegetation surveys completed at the Goongarrie Hub.
 - The KNP Life Cycle Assessment (**LCA**) progressed with final inputs provided to consultants Minviro for independent assessment, with a further reduction in CO₂ emissions expected.
 - Water drilling at Siberia North now completed with 21 exploration holes for 1,233m drilled. The results were very encouraging, with most drillholes producing flows of 2-5 L/s which indicates that Siberia North will be an important component of water supply for the Goongarrie project.
 - Two more water drilling programs are to be completed in the June Quarter, to test targets close to Goongarrie and other high priority, more regional targets.

[†] Ardea ASX releases 16 May 2022, 26 May 2022, 14 June 2022 and 16 November 2022.



Environmental, Social and (Corporate) Governance

Environmental, Social and (Corporate) Governance (**ESG**) considerations are at the forefront of the Ardea operation. Project designs and work practices are based on the Company minimising CO₂ green-house gas emissions when in production. The proposed flow sheet (Figure 6) has been enhanced for CO₂ mitigation in the neutralisation circuit through introducing an AL circuit to assist in neutralising the HPAL discharge. The AL circuit facilitates upgrade of the site acid plant utilisation and allows Ardea to generate its own site power requirements off-grid, without relying on fossil fuel for power generation.

Ardea has contributed its Critical Mineral technical expertise to groups advocating for net zero carbon by 2050 and lodged a supportive submission to the House of Representatives Standing Committee on the Environment and Energy inquiry into the Climate Change (National Framework for Adaptation and Mitigation) Bill 2020.

Responsible sourcing of materials, through mechanisms such as mandatory reporting of CO₂ footprints for all batteries sold is essential. Traceability is also being implemented with raw materials used in batteries that must be procured according to OECD guidelines for sustainable sourcing. These important considerations are an essential part of the feasibility study work Ardea is undertaking on the KNP.

Ardea enjoys strong support from the communities in which we operate, primarily the City of Kalgoorlie-Boulder and the Shire of Menzies and has a Native Title Agreement in place for development of the Goongarrie Hub. The benign environmental setting, being the Great Western Woodlands, allows excellent post-mining rehabilitation, reforestation, and resultant carbon offset. Ardea's in-pit tailings disposal strategy, incorporating waste rock back fill, stockpiled topsoil and finally progressive revegetation, minimises land disturbance and accelerates rehabilitation, concurrent with operations.

Critically, at the Goongarrie Hub, mining and processing has no land-use conflict with agricultural activity which occurs in multiple peer nickel laterite centres.

During the Quarter, Ardea continued to engage with multiple stake holders who are supportive of the Goongarrie Hub development and are looking forward to the contributions the operation can make to the local community through increased skilled job opportunities, training and enhancing community contributions.

Ardea in maintaining its West Kalgoorlie Operations Office allows a permanent presence and regular engagement with the communities within which the Company operates.

ESG Compliance

Internationally accredited Digbee ESG™ have awarded Ardea an overall ESG rating of "BBB" on both corporate and the Kalgoorlie Nickel Project. For an emergent development company such as Ardea, BBB is a meritorious outcome and an excellent platform to achieve AAA as the Company grows.

Sustainability consultancy Minviro have been retained to provide a cradle-to-gate Life Cycle Assessment (**LCA**) of the KNP. An ISO 14040/14044 compliant report will be produced addressing Scope 1, 2 and 3 emissions and environmental impacts as part of Ardea's updated PFS report. The updated internal modelling completed by the Ardea Team during the Quarter and provided to Minviro for independent assessment, has continued to reduce Ardea's already low by industry standards, CO₂ emissions.

Nickel Sector Commentary

Global equity markets remained volatile during the Quarter, primarily due to banking issues in the US and Europe which has led to tightened monetary policy and China's slow economic progression from its post-zero COVID-19 stage. On the positive, the outlook for nickel remains compelling and the investment fundamentals continue to strengthen. Governments and private investment into Critical Minerals projects via the green energy movement continue to accelerate with the EU Commission noting that the energy transition is set to triple by 2023 from \$1 trillion last year. The US IRA is providing \$500 billion into new spending and tax concessions. This forecast spend will see an increased demand for Critical Minerals.

Total nickel demand by sector and scenario 2020 - 2040 - Charts - Data & Statistics - IEA

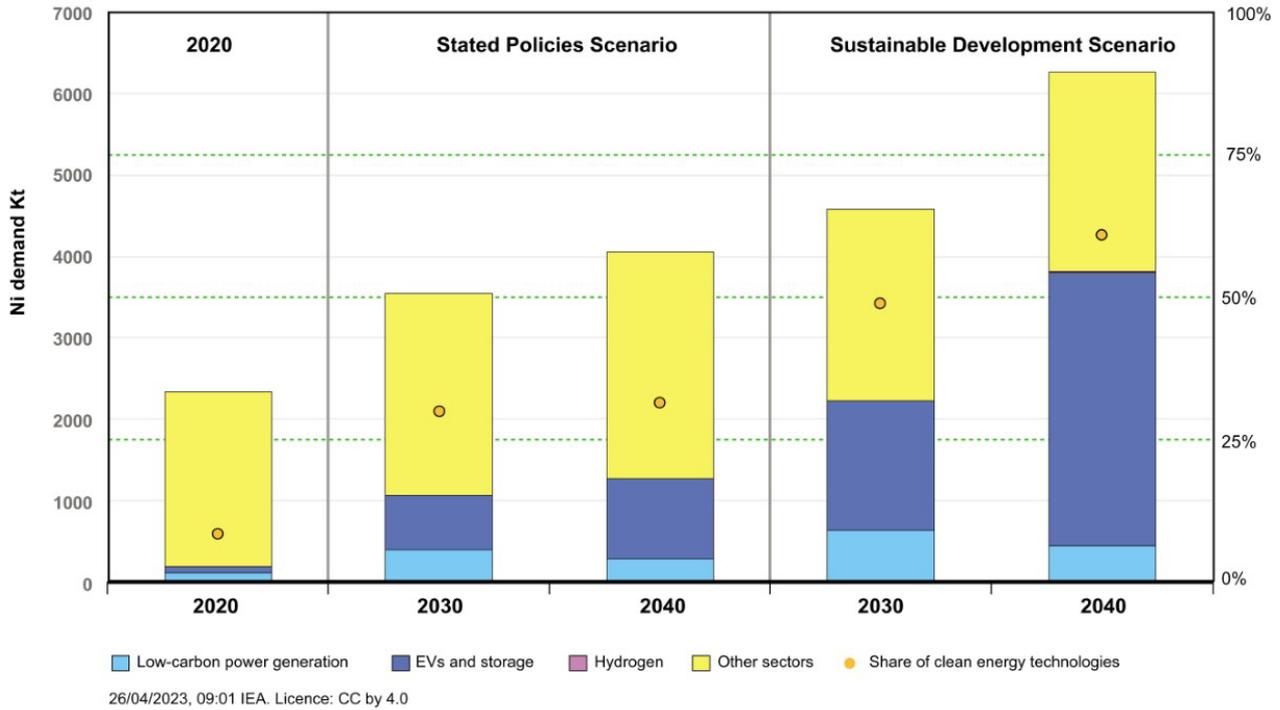


Figure 2a: IEA, Total nickel demand by sector and scenario, 2020-2040, IEA, Paris <https://www.iea.org/data-and-statistics/charts/total-nickel-demand-by-sector-and-scenario-2020-2040>, IEA. Licence: CC BY 4.0

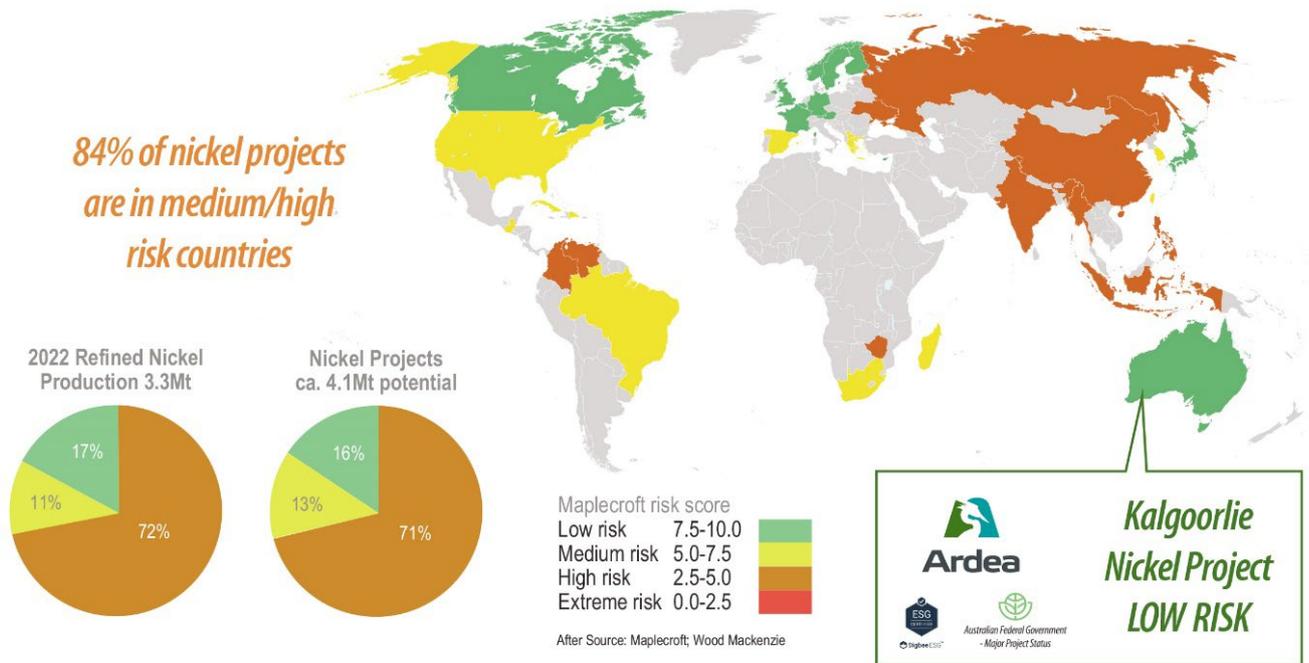


Figure 2b: Overlaying the critical demand for nickel is the ethical and risk considerations. The map above shows that 84% of nickel projects are considered medium/high risk countries. Ardea's KNP project is in the enviable, premier, and low risk mining jurisdiction of Western Australia. After Maplecroft/ Wood Mackenzie October 2022.



The European Union Critical Raw Materials Act released during the Quarter, has included a requirement that no more than 65% of Battery and Critical Minerals be sourced from any one jurisdiction. This requirement is expected to continue to accelerate the demand for Battery and Critical Minerals and supply chain diversity.

Mineral demand for use in Electric Vehicle (**EV**) and battery storage is expected to grow at least thirty times to 2040. Lithium sees the fastest growth, with demand growing by over 40 times in the SDS by 2040, followed by graphite, cobalt and nickel (around 20-25 times) (Figure 2a). Of note is the scarcity of nickel-cobalt resources compared to other Battery Minerals, such as lithium and graphite.

Current producers of nickel will not meet demand forecasts and higher nickel prices will be required to enable new investments to come online. These fundamentals underpin the global significance of the KNP and its international recognition, given the strategic scale of the resource, industry leading low-carbon flow sheet and location in the premium mineral resources operating jurisdiction in the World (Figure 2b).

With Ardea's KNP hosting one of the largest nickel-cobalt resources in the developed World, 830Mt at 0.71% Ni and 0.046% Co (**5.9Mt contained nickel metal, 380kt contained cobalt metal** – ASX release 16 June 2021), Ardea is in a prime position to provide essential supplies of sustainably-sourced nickel and cobalt, along with other Critical Minerals (notably scandium and the magnet REEs neodymium and praseodymium).

In terms of the ranking of the KNP (**Kalgoorlie**) in the world context, an independent Nickel Equity Market Report in April 2023 by international corporate broking and corporate finance adviser RFC Ambrian noted:

*“We conclude that there are just six projects with a ‘High’ possibility of third-party involvement. These are: **Kalgoorlie**, Central Musgrave, Araguaia, Kabanga, Jaguar, and Julimar (listed by resource size)”.*

EXPLORATION

WA Nickel Sulphide and Critical Minerals

Exploration for Critical Minerals and magmatic nickel-copper-PGE sulphide continues within the KNP on compelling targets which are complementary to the development of the KNP Goongarrie Hub.

- **Nickel Sulphide** – Updated 3D modelling at Binti Prospect was completed, indicating the “hottest” ultramafic flows are at Binti Central at depth, with the interpreted lava channels still open for drill testing. A diamond drill program has been planned to comprise five holes for 2,900m, mostly in the Binti area. Regional technical targeting to generate a pipeline of nickel sulphide exploration targets in the ~20km strike Western Komatiite sequence is now complete. The review identified twelve (12) target areas, with exploration RC drill programs being designed. The planned drill programs at Kalpini are under assessment and are expected to be executed once current Goongarrie Hub feasibility programs are completed.
- **Lithium-Caesium-Tantalum (LCT) Pegmatites** – During the Quarter lithium exploration was focused on testing LCT pegmatite targets, primarily at the Perrinvale and Ghost Rocks Projects, that were recognised as priority projects from the desktop review completed by consultants CSA Global during the previous Quarter.

At the Perrinvale Project a northern section of the tenement was assessed with a detailed field sampling and mapping program that identified extensive outcropping prospective fractionated pegmatites (25 pegmatites sampled), the largest extending >200m along strike and up to 20m thick. Further mapped pegmatites are still to be sampled, mostly in the northern and western part of the tenement. At Ghost Rocks several field sampling and mapping programs were completed during the Quarter, with assay results identifying multiple pegmatites notably with elevated Ta (up to 373ppm), Rb (up to 1,500ppm) and positive geochemical ratios (K/Rb<30), indicating prospective pegmatites for follow-up.



1. KALGOORLIE NICKEL PROJECT - GOONGARRIE HUB

The Goongarrie Hub is located 70km northwest of the mining centre the City of Kalgoorlie-Boulder and is the premium ore feed within the broader KNP (Figure 3). Resources from the Goongarrie, Highway and Siberia North laterite nickel deposits are planned to be the base load feed for two 1.5Mtpa HPAL autoclaves with a 0.5Mtpa AL circuit at the Goongarrie South plant site.

The resources at Goongarrie are dominantly the premium goethite style and extend continuously over 25km of strike and at Highway, 30km north, over a strike length of 6km (Figure 3). All Goongarrie Hub mineral resources are located on granted mining leases with Native Title Agreement in place and tenure 100%-controlled by Ardea.

The project also has ready access to high-quality infrastructure with the Goldfields Highway, rail line and power infrastructure passing through the project area (Figure 3). The gas pipeline is located 30km to the east and there are two port options, these being Esperance and Kwinana, that are well serviced by the KNP road and rail network.

Significantly, the KNP is located on the rail connection to the developing battery hub at the Port of Kwinana industrial area immediately south of Perth, as well as east to Port Augusta and developing low-carbon energy hubs on the eastern Australia seaboard.

Ardea is actively engaged with Commonwealth and State agencies and statutory authorities who are coordinating the push for a downstream battery industry within Australia through "Team Australia" and the State of Western Australia through "Team WA".

All the LIB feedstocks, including nickel and cobalt, are available in Australia and WA in particular at the scales required for world-significant green energy centres of excellence.

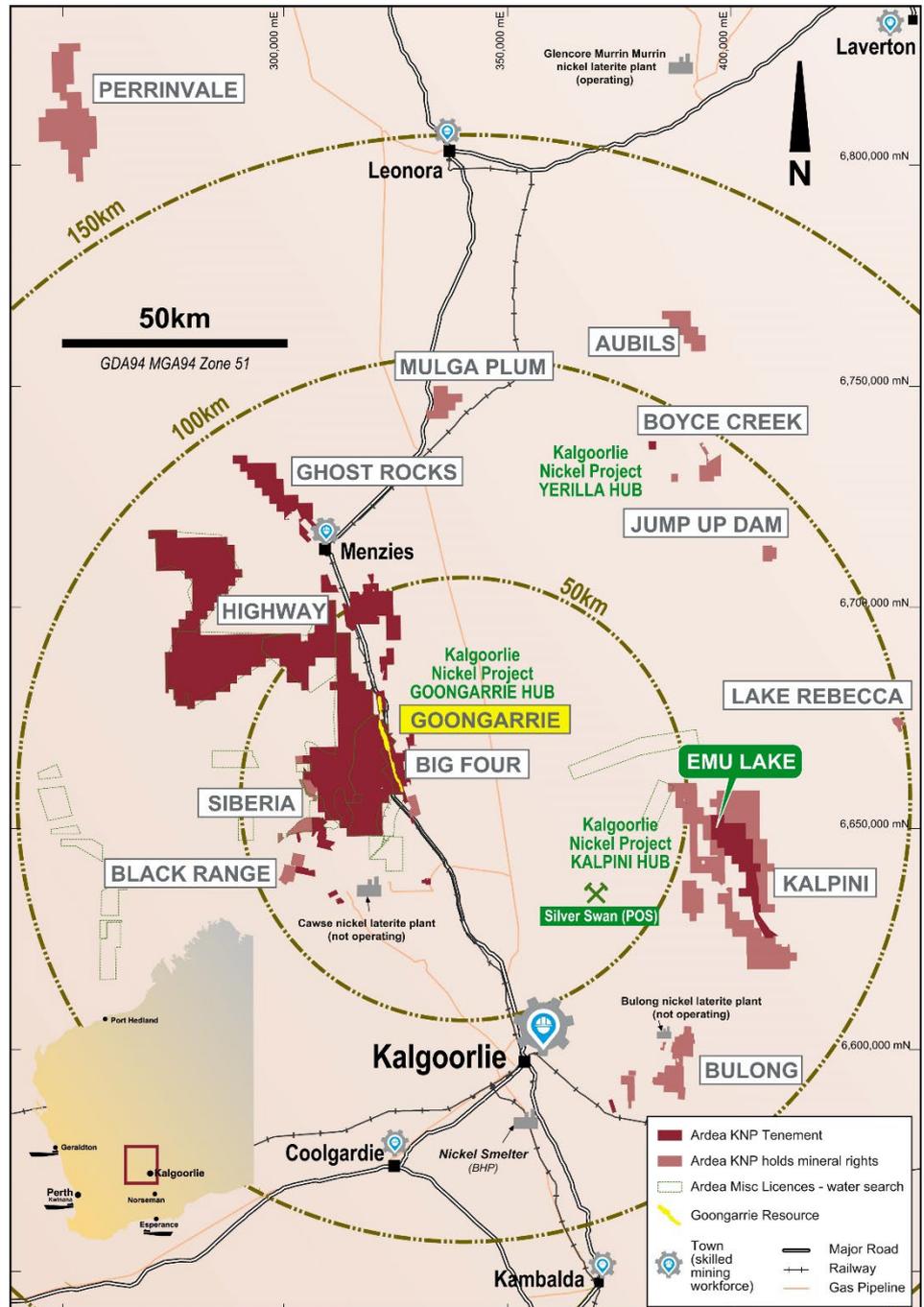


Figure 3: KNP location plan.
Projection GDA94 Zone 51.



Project Funding

Following the KNP being awarded Major Project Status (ASX release 21 March 2022), engagement with State and Commonwealth agencies has continued to grow, particularly with the CMO, EFA and Austrade.

Ardea is also in discussions with multiple Export Credit Agencies and advisors in jurisdictions aligned geopolitically with Australia and in which potential project Partners are based.

The preferred funding option for the KNP Goongarrie Hub development is a mixture of project debt and project equity, with long tenor, low interest rate ECA debt funding being favoured.

With the rapid expansion of the LIB sector, supply chain security issues and the push for sustainable and ethical battery mineral supply sourced from tier one operating jurisdictions such as Western Australia, there has never been a better time for Ardea to be advancing the KNP towards development.

To expedite a more favourable KNP funding package, an industry-leading mining consultancy, Orelogy, has been retained to produce an Ore Reserve for the KNP Goongarrie Hub, using the currently defined Mineral Resource Estimate (**MRE**) of 561Mt at 0.68% Ni and 0.044% Co. This PFS level update, as part of the ongoing feasibility programs, is important, as the project scale has increased significantly from the 2018, 1.5Mtpa PFS and 2.25Mtpa Expansion Study to the current 3.5Mtpa. Flow sheet enhancements such as the inclusion of the second HPAL autoclave, the AL circuit and Mineralised Neutraliser need to be quantified, to be able to optimally communicate the Company value proposition.



Figure 4: Aerial image of Ardea's Goongarrie Hub at Goongarrie South looking south towards Kalgoorlie-Boulder showing road and rail infrastructure within the granted mining leases upon which the resources are located.

Note the semi-arid woodlands environment, ideal for project development, safe tailings management and revegetation post mining.

All pits for the critical Payback period at project start-up are located in the flat terrain east of the Goldfields Highway and railway in an area of dominant goethite grind HPAL ore, in some locations extending to depths exceeding 100m. This is the jewel in the KNP crown and the impetus for LIB OEMs being so keen to engage with Ardea to secure sustainable nickel-cobalt offtake.



Feasibility Programs

Ardea’s sole priority is the development of the KNP Goongarrie Hub as a globally significant Critical Minerals operation focussed on nickel-cobalt. The project finance model seeks to optimise Ardea’s project equity and long-term offtake rights.

The project scale has been settled at a 3.5Mtpa. The flow sheet solely uses hydrometallurgical technology successfully deployed at established nickel laterite operations over six decades. The main neutralising agent required in ore processing is derived in-pit as Mineralised Neutraliser (MN), immediately underlying the nickel-cobalt laterite ore.

Ore preparation focusses on a low-risk comminution “Grind/HPAL” circuit treating premium high-grade Goethite ore to facilitate an early project pay-back. With time, an increasing contribution from screened siliceous ore processed in the beneficiation “Bene/HPAL” circuit is planned, as this facilitates an optimised resource utilisation and extended mine-life.

The AL circuit ore is sourced from high-magnesium Serpentine clay ore below the target Goethite ore and is gained within pit optimisations pursuant to the Goethite mining and from MN Fines. Power generated from using additional sulphur in the acid plant as required for the AL circuit is a key contributor to the low-carbon footprint (Figure 5).

Initial proposed sale product is an MHP for the lithium-ion battery sector. Project financing will proceed around an MHP flow sheet. The longer-term objective is to further refine the MHP on-site to Precursor Cathode-Active Material (PCAM), and ultimately also recover scandium and Rare Earth Elements from the tailings stream.

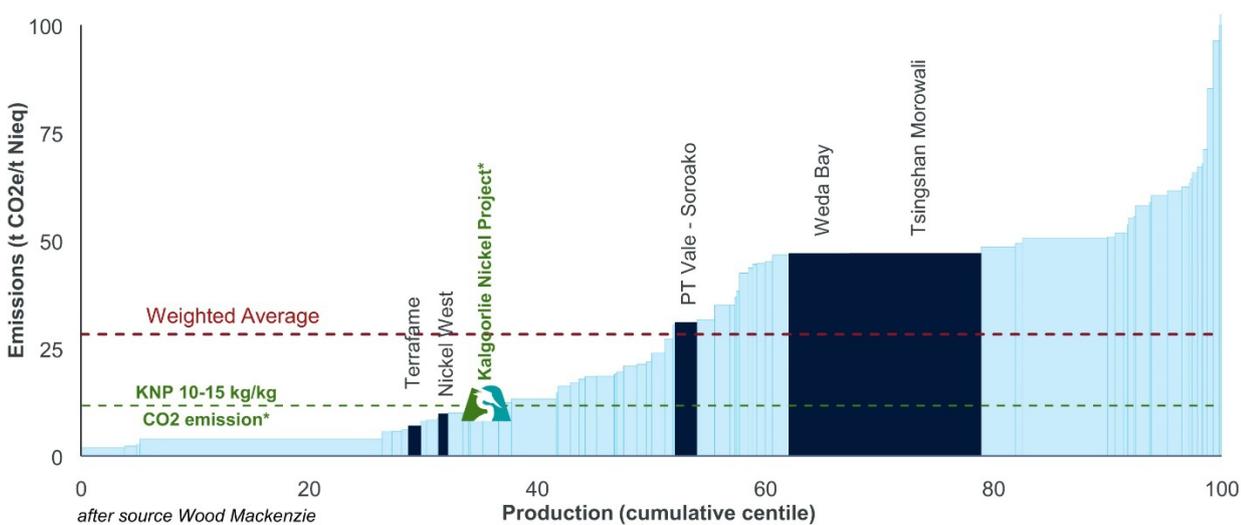
Ardea’s 2018 Expansion Study (ASX release 24 July 2018) was a single autoclave processing 2.25Mtpa as the preferred Goongarrie Hub throughput. This is now superseded by the 3.5Mtpa base case, which aims to significantly increase initial stage nickel-cobalt production from within the KNP resource endowment of 830Mt at 0.7% Ni and 0.05% Co (5.9Mt contained nickel metal, 380kt contained cobalt metal – ASX release 16 June 2021).

Ardea’s Owners Team has been significantly strengthened with the appointment of well-respected and experienced resources sector professional, Matthew Read as Project Director (ASX release 18 January 2023).

Ardea continues to work with industry-leading consultants and service providers to complete a PFS which will underline the 3.5Mtpa base case. This PFS will consolidate previous studies and will be completed in the June Quarter 2023. This timing has enabled Project Director Matthew Read to assume leadership of the feasibility process.

Nickel industry CO2e curve (Scope 1 and 2 only) for 2021

Ardea’s provisional CO2 emission calculations sit at less than half the weighted average and less than a quarter of Indonesia Matte production



• These figures are provisional, based on the most recent mass balances but subject to changes in mine plan and other metrics for comparison

Figure 5: Indicative CO2 emissions intensity for the nickel industry, including initial estimates from the KNP Goongarrie Hub, with in progress PFS work streams continuing to drive emissions lower, without any allowance for offsets.

After WoodMac Nickel Industry analysis and Ardea internal analysis.

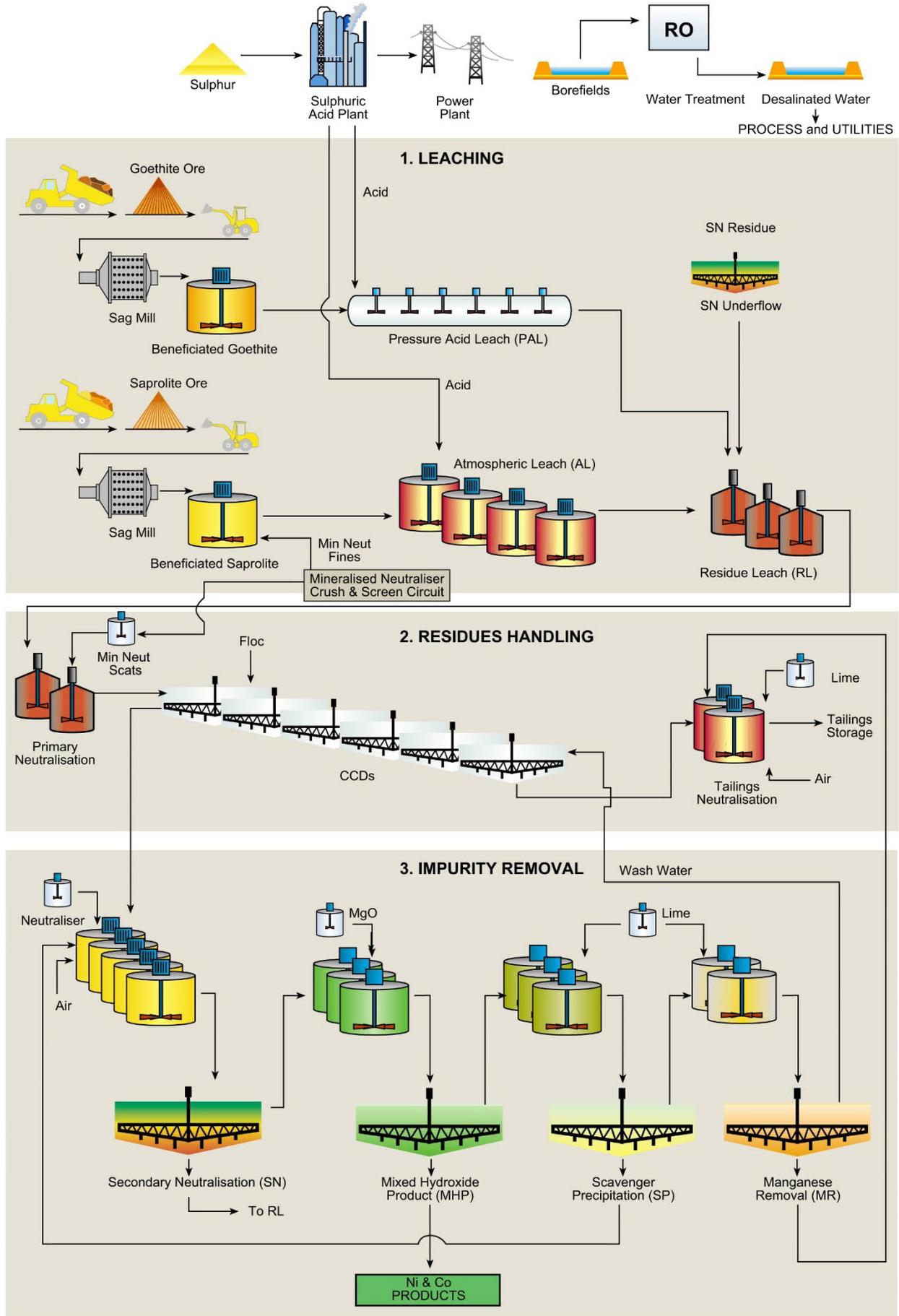


Figure 6: Goongarrie Hub process flow sheet.



Resource Modelling

The full KNP continues to be evaluated for high-grade, >1% nickel plant feed options. These studies also address potential metallurgical by-products including scandium and REE. All mineral resource estimation uses uniform methodologies throughout the KNP. A review of the full KNP high-grade nickel MRE is continuing, with Siberia North in the western Goongarrie Hub and Lake Rebecca in the Kalpini Hub currently being assessed for an updated MRE.

The combined Mineral Resources at the Goongarrie and Highway deposits for a starter processing plant development at the KNP Goongarrie Hub are reported below (Table 1), with an initial focus on the high-grade resource based on a 0.8% Ni cut-off.

The full Goongarrie Hub now has a single Material Types algorithm based solely on XRD-generated mineralogy. This modelling is the basis for pit optimisations, metallurgical flow sheet and engineering designs. Specifically, the Material Type classification aims to optimise specific feeds to the HPAL and AL circuits.

Most importantly, Material Types are now segregated in the comminution circuit as Grind or Bene, and in leaching as HPAL feed, AL feed and Neutraliser. There are now four feed options:

1. Grind/HPAL the base load high grade Ni-Co feed from Goongarrie South, basis of mine schedules.
2. Bene/HPAL later project feed, dominantly from Highway and Goongarrie Hill.
3. Grind/AL sourced from Mineralised Neutraliser Fines and from Serpentine clay underlying Goethite ore.
4. Min Neut Scat magnesite for the neutraliser circuit, Fines to AL circuit.

The Material Types algorithm is mainly required for Bulk Density estimates for the MREs. The sophistication is such that it can predict material down to mine road surface sheeting. The system has been developed by Ardea's in-house Principal Resource Geologist and is illustrative of the elite nickel laterite expertise the Company has developed since its 2017 ASX listing.

At the current nickel price around US\$23,000 per tonne, Scat grades as low as 0.5% Ni have a significant value likely exceeding variable processing costs. This has the potential to move plant feed away from Bene in favour of Grind. Additionally, HPAL with ~94% nickel recovery is favoured over AL with its lower recoveries.

Table 1 - Highway and Goongarrie (ASX release 16 June 2021) nickel and cobalt Mineral Resources using a 0.8% Ni cut-off grade.

Deposit	Resource Category	Tonnes (Mt)	Ni %	Co %	Contained Metal	
					Ni (kt)	Co (kt)
Goongarrie Hub (GH, GS, BF & SD)	Measured	11.0	1.13	0.106	125	11.6
	Indicated	41.5	0.97	0.070	404	29.0
	Inferred	7.1	0.95	0.051	67	3.6
	Subtotal	59.6	1.00	0.074	595	44.3
Highway	Indicated	15.1	1.01	0.053	152	8.0
	Inferred	3.7	0.98	0.053	36	2.0
	Subtotal	18.8	1.00	0.053	188	10.0
Combined Deposits	Measured	11.0	1.13	0.106	125	11.6
	Indicated	56.5	0.98	0.066	556	37.1
	Inferred	10.8	0.95	0.051	103	5.6
	Grand Total	78.3	1.00	0.069	784	54.3

Ardea's updated 2021 Goongarrie and Highway resource estimates were incorporated with historic KNP resource estimates compiled by various parties between 2004 and 2009 and signed off to meet JORC-2012 guidelines by Heron Resources in 2013 (refer Table 2 below).

The KNP Goongarrie Hub MRE, based on a 0.5% Ni cut-off grade, is 561Mt with 3.8Mt of contained nickel and 248kt of contained cobalt and will be able to supply premium goethite plant feed to a HPAL process plant located at Goongarrie for multiple decades.



Table 2 – Highway and Goongarie (ASX release 16 June 2021) KNP nickel and cobalt Mineral Resources based on a 0.5% Ni cut-off grade.

Camp	Prospect	Resource Category	Size (Mt)	Ni (%)	Co (%)	Contained Metal		Estimation Details			
						Ni (kt)	Co (kt)	Method	Source	Year	
Goongarie	Goongarie South	Measured	18	0.94	0.085	171	15	LUC	Ardea	2021	
		Indicated	82	0.71	0.049	584	40	LUC	Ardea	2021	
		Inferred	10	0.64	0.033	61	3	LUC	Ardea	2021	
	Highway	Indicated	71	0.69	0.038	487	27	LUC	Ardea	2021	
		Inferred	21	0.67	0.040	141	8	LUC	Ardea	2021	
	Ghost Rocks	Inferred	47	0.66	0.042	312	20	OK	Snowden	2004	
	Goongarie Hill	Indicated	40	0.65	0.037	259	15	LUC	Ardea	2021	
		Inferred	29	0.60	0.025	176	7	LUC	Ardea	2021	
	Big Four	Indicated	49	0.71	0.047	346	23	LUC	Ardea	2021	
		Inferred	14	0.68	0.043	96	6	LUC	Ardea	2021	
	Scotia	Indicated	12	0.71	0.065	82	7	LUC	Ardea	2021	
		Inferred	5	0.72	0.043	37	2	LUC	Ardea	2021	
	Goongarie Subtotal		Measured	18	0.94	0.085	171	15			
			Indicated	253	0.69	0.044	1,758	112			
		Inferred	127	0.65	0.037	823	47				
		Combined	398	0.69	0.044	2,753	175				
Siberia	Siberia South	Inferred	81	0.65	0.033	523	27	OK	Snowden	2004	
	Siberia North	Indicated	10	0.64	0.051	64	5	OK	Snowden	2009	
		Inferred	53	0.66	0.043	352	23	OK	Snowden	2009	
	Black Range	Indicated	9	0.67	0.090	62	8	OK	HGMC	2017	
		Inferred	10	0.69	0.100	68	10	OK	HGMC	2017	
	Siberia Subtotal		Indicated	19	0.65	0.070	126	13			
		Inferred	144	0.66	0.041	943	59				
		Combined	163	0.66	0.045	1,070	73				
KNP Goongarie Hub	TOTAL	Measured	18	0.94	0.085	171	15				
		Indicated	272	0.69	0.046	1,885	126				
		Inferred	270	0.65	0.039	1,767	107				
		Combined	561	0.68	0.044	3,822	248				
Bulong	Taurus	Inferred	14	0.84	0.051	119	7	OK	Snowden	2007	
	Bulong East	Indicated	16	1.06	0.055	169	9	OK	Snowden	2004	
	Bulong East	Inferred	24	0.79	0.053	190	13	OK	Snowden	2004	
	Bulong Subtotal	Indicated	16	1.06	0.055	169	9				
		Inferred	38	0.81	0.052	309	20				
		Combined	54	0.88	0.053	477	29				
Hampton	Kalpini	Inferred	75	0.73	0.044	550	33	OK	Snowden	2004	
	Hampton Subtotal	Inferred	75	0.73	0.044	550	33				
KNP Kalpini Hub	TOTAL	Indicated	16	1.06	0.055	169	9				
		Inferred	114	0.76	0.047	859	53				
		Combined	130	0.79	0.048	1,028	62				
Yerilla	Jump Up Dam	Measured	4	0.94	0.048	36	2	OK	Snowden	2008	
		Indicated	42	0.78	0.043	324	18	OK	Snowden	2008	
		Inferred	18	0.63	0.034	116	6	OK	Snowden	2008	
	Boyce Creek	Indicated	27	0.77	0.058	206	16	OK	Snowden	2009	
	Aubils	Inferred	49	0.70	0.066	346	33	OK	Heron	2008	
	KNP Yerilla Hub TOTAL		Measured	4	0.94	0.048	36	2			
		Indicated	68	0.78	0.049	531	33				
		Inferred	68	0.68	0.057	462	39				
		Combined	140	0.73	0.053	1,028	74				
KNP TOTAL			Measured	22	0.94	0.079	207	17			
			Indicated	357	0.72	0.047	2,584	168			
			Inferred	452	0.68	0.044	3,088	199			
GRAND TOTAL		Combined	830	0.71	0.046	5,879	384				

Legend: LUC – Local Uniform Conditioning; OK – Ordinary Kriging.



Processing Research and Development

The Ardea FY2023 Research & Development (**R&D**) is primarily based upon metallurgical experiments aimed at optimising the product range and hence revenue streams from the KNP and its Goongarrie Hub.

The key R&D processing break through achieved during the previous Quarter was confirmation of Ardea's Mineralised Neutraliser concept (ASX release 16 November 2022). Impetus for the Mineralised Neutraliser experiments was to test whether magnesite could replace the calcitic limestone invariably used for Eastern Goldfields HPAL/AL sulphuric acid neutralisation and in so doing save on consumable purchase and transport cost and minimise CO₂ emissions associated with transporting the limestone to site. Highlights from Ardea's work included:

- Simple screen beneficiation produced high-grade Serpentine Goethite Clay Fines to supplement the AL circuit feed.
- The Magnesite Scats Acid Neutralisation Capability is well suited to first stage Primary Neutralisation (Figure 6).
- The sulphuric acid reacts with magnesite to form soluble magnesium sulphate which goes to tailings storage and evaporation voids. In contrast, the reaction with limestone is to form insoluble gypsum in pipelines, and becomes an additional solid requiring waste management occupying valuable pit void tailings space.

An Australian provisional patent application covering Ardea's Mineralised Neutraliser R&D has been filed at IP Australia (AU2022903389 entitled "Acid Neutraliser Composition" filed 11 November 2022) and is continuing to be advanced.

Scandium and Rare Earth Elements

Key experiments relate to sustainability enhancements for the KNP HPAL and AL flow sheets. In terms of potential by-product revenue streams, opportunities involving the Critical Minerals cobalt, scandium, the Platinum Group Elements (**PGE**) - Ru, Rh, Os (due to excessive assay cost, using 500ppb Pt-Pd as a pathfinder in pulp re-assay) and the REE neodymium, praseodymium and cerium, used in magnets for EV motors and wind-turbine generators.

The securing of feed for the AL and MN circuits is critical, since this is the mechanism to increase acid demand and thus sulphur burning to ensure site non-fossil fuel energy self-sufficiency.

Highly sought Critical Minerals documented within the KNP lateritic enrichment regolith profile include:

- NCM content in LIB including precursor cathode-active material;
- EV electric motor REE permanent NdFeB magnet metals, most notably Nd-Pr-Tb-Dy. The KNP also has common Ce and La;
- Scandium for scandium-aluminium lightweight, high-strength fabrication in general and EV chassis in particular;
- Vanadium for community-scale and larger SSBs;
- Critical Minerals targets at potentially extractable grades identified during KNP R&D include:
 - Ba, Cr, Ga, In, Mg, Mo, Te, Ti, Sn, W, Y, Zr; and
 - PGEs - Ru, Rh, Os.

All these Critical Minerals can be realistically assessed for recovery because the HPAL process requires complete dissolution of goethite-hosted nickel-cobalt mineralisation, thereby rendering all contained metals into solution and thus amenable to recovery. This does not require each of these metals to individually be in stand-alone economic concentrations. Recovery of these metals relies on nickel and cobalt hydrometallurgical recovery, potentially providing significant credits and upside to the project economics. Planned metallurgical test work will help determine the viability of recovering co-product Critical Minerals from the HPAL Pregnant Liquor Solution (**PLS**).

Critical Minerals research and development is predicated on the 60 element Ardea multi-element assay suite used in all sampling programs. The R&D focus for the Company continues to be searching the KNP technical data base to select archived Ardea drilling sample pulps for re-assay for Critical Minerals (notably REE co-products and identifying fertile nickel sulphide multi-element ratios indicative of PGEs). The PGE R&D is a joint CSIRO-Ardea program.



FBICRC

The FBICRC is an independent centre where industry, government and researchers can come together to create the tools, technologies, and skills to grow the role of battery storage in Australia's electricity grids and make Australia a larger downstream player in global battery value chains.

The focus of all Ardea R&D is ultimately aligned with the FBICRC objective of developing Australian autonomous, ESG-compliant, renewable energy supply chains.

Ardea sponsors and works with the FBICRC team on the following work streams:

1. Cathode Precursor Project.
2. Innovative Nickel-Cobalt Extraction.
3. Electrochemical testing of Australian battery materials in standard cell formats.
4. Provenance and Trusted Supply Chains.
5. Certification and Environmental life Cycle Assessment.

Each one of these work streams is aimed at ensuring quality product specifications and ESG compliance for the Australian LIB sector and sustainable and ethical supply from the best-regarded operating jurisdiction in the World, being WA.

The consortium of FBICRC participants includes some of the largest nickel and chemicals producers in the World who are working with companies such as Ardea to produce from locally sourced materials the batteries used in EVs.

Ardea has assembled suitable bulk drill sample material from current Goongarrie Hub drilling plus product from the 2018 PFS Goongarrie pilot run as test material for the FBICRC pilot plant.

During the Quarter, Ardea Managing Director and CEO, Andrew Penkethman, attended several industry events with FBICRC representatives.

Bench-scale Metallurgy

The current round of bench scale metallurgical test work at the ALS and BV metallurgical laboratories in Perth has been completed and reports received. This work has confirmed the expected benefits of incorporating Mineralised Neutraliser into the flowsheet and also helped confirm expected HPAL and AL consumable consumption and nickel-cobalt recoveries.

Metallurgical Bulk Samples

Several parties undertaking technical due diligence or conducting R&D work on the KNP have requested bulk samples for independent test work. This has been facilitated through Ardea's extensive drill sample laboratory coarse residue archive (several tonnes of material archived at the West Kalgoorlie yard and at the Malaga storage unit). These are key R&D assets, with results used to help validate existing PFS metallurgical data.

Results reported from testing by potential Strategic Partners have compared the Goongarrie Hub goethite ore to premium laterite ore from the tropics.

Hydrogeology

At Goongarrie, all nickel-cobalt-scandium mineral resources (ASX release 15 February 2021) are located on granted mining leases. As such, Ardea has first rights to any ground water underlying these areas. Past work by Ardea has defined multiple water sources, with water for project development to be sourced from both dedicated bore fields and pit dewatering ahead of mining.

Water drilling at Siberia North has now been completed testing for cap-rock aquifers beneath drainage lines. Twenty-one (21) water exploration holes (ASNWB001-21) for 1,233m were drilled. The results were very encouraging, with all but six of the drillholes producing flows of 2-5 L/s. At Siberia North the best quality water (<3,000 mg/L) occurs in northern sectors. The aquifer pinches out to the south, with replenishment by recharge important. The results indicate Siberia North should be an important component of overall water supply for the Goongarrie project.



Water exploration drilling at Siberia South was completed during the Quarter. Nine holes were drilled for 638m at an average of 70m into fresh bedrock. The results were largely negative, with only minor water being produced by drillholes ASSWB001 and ASSWB004 just above top of fresh bedrock. At this stage there will be no further work at Siberia South.

Additional hydrogeology work planned for the June 2023 Quarter includes hammer drilling of silica-cap rock targets at Black Range, Goongarrie South and Goongarrie Hill. The drilling contractor will then return to drill tributary palaeovalley targets at Goongarrie South, and trunk palaeovalley targets at Battery West, Black Range, Papertalk West, Papertalk East and 19 Mile Rocks (Figure 3, includes water exploration tenure).

Both typical Eastern Goldfields saline water and potable water will be required for project development. Ardea's US-based nano-filtration R&D test work has already demonstrated the potential for this technology to be used for softening the HPAL water feed and for recycling barren process water to reduce both the project's water consumption and its water evaporation pond footprint.



Figure 7: Water Licence studies during the Quarter

Infrastructure and Logistics

As part of its ongoing stakeholder engagement, Ardea has accelerated communications with several key stakeholders, including:

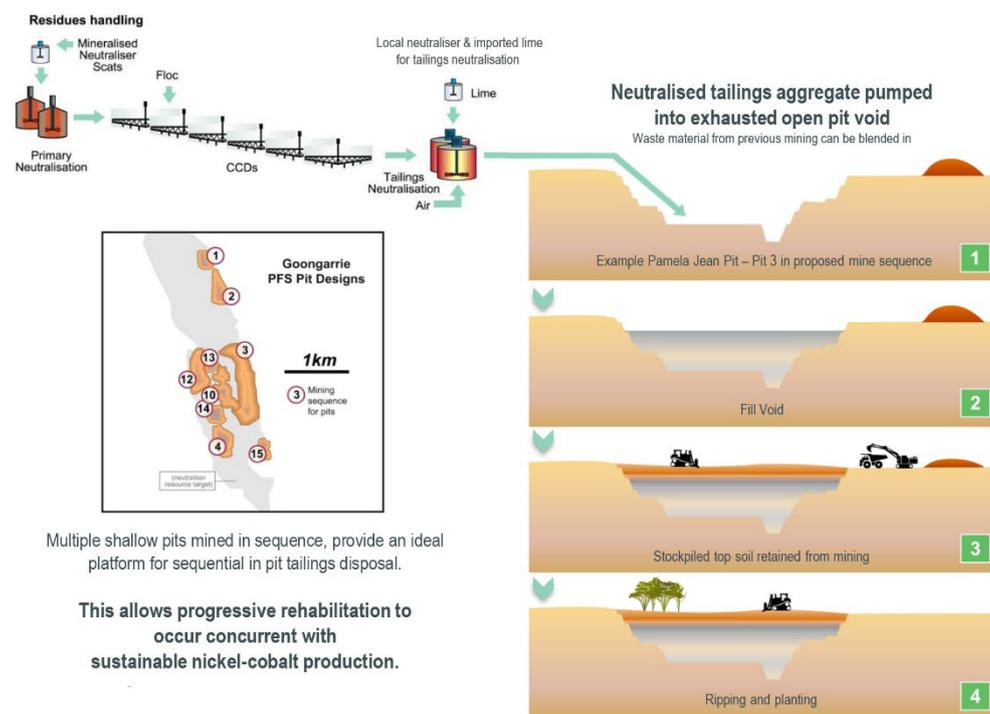
1. The City of Kalgoorlie-Boulder (**CKB**) – to provide both organisations with an update on key project development considerations, such as infrastructure and worker accommodation. Regular communication continues, with direct interactions including the CKB hosting Strategic Partner site visit meetings.
2. The Shire of Menzies – to provide both organisations with an update on key project development considerations, such as infrastructure and worker accommodation.
3. Southern Ports, Esperance – to provide both organisations with an update on key project development considerations, such as the transport of goods and services between Esperance and Goongarrie.
4. Goldfields Industrial Water Group – to study means of working co-operatively with the local Community and industry for efficient collection, use and recycling of water resources in the Kalgoorlie region.
5. Rail infrastructure and logistical suppliers in the Kalgoorlie region.
6. The WA State Government Department of Jobs, Tourism, Science and Innovation – to grant Ardea Lead Agency Status during the course of the DFS to help expedite permitting and approvals.



Environment and Rehabilitation

All project development within the KNP is aimed at ensuring systematic and rapid rehabilitation concurrent with operations. The KNP is located within the Great Western Woodlands, the largest and healthiest temperate to semi-arid (Mediterranean climate) woodland on Earth. The woodlands cover almost 16,000,000 hectares from the Nullarbor Plain in the east to the Wheatbelt in the west; from Esperance in the south through to the inland mulga country north of Kalgoorlie, including the KNP as a comparative very small component (Figure 4).

Due to the 2023 expanded development footprint of the Goongarrie Hub which also reflects Ardea's current flow sheet, baseline surveys completed in 2018 have been extended and include further surveys to ensure latest environmental standards and guidelines are being met. During the current Quarter, Focused Vision Consulting, Kingfisher Environmental and Alacran Environment Science completed Autumn fauna, flora and vegetation surveys at the Goongarrie Hub. Baseline surveys will continue through 2023 and will include a targeted conservation significant butterfly survey, subterranean fauna, Spring fauna and flora surveys, soils and landform, material characterisation, social surrounds assessment, inland waters assessment, Aboriginal heritage and greenhouse gas emissions assessments. These expanded and detailed surveys will ensure that the correct standards for EPA referral are upheld.



Mine rehabilitation methodology is facilitated through four decades of WA open pit gold mine operations, and the KNP footprint is minimised using mining voids for tailings and mullock disposal. Mining voids will be progressively rehabilitated during operations and returned to their pre mining state, by dressing the back filled open pit voids with topsoil (Figure 8) and then revegetating.

Figure 8: Planned Goongarrie Hub in-pit tails disposal and rehabilitation strategy.

In terms of ESG compliance for hydrometallurgical metal processing, the KNP's benign and manageable environmental footprint contrasts strongly with "wet tropical laterite" projects. The tropical laterites require submarine tailings disposal or valley tailings storage with consequent substantial environmental risk. Tailings disposal in these environments tends to be further complicated by high rainfall and the fact that most tropical laterite deposits are in seismically active regions. Additionally, wet tropical laterite production areas commonly involve non-restorable rain forest habitat destruction.

It is doubtful whether wet tropical laterite hydrometallurgical battery metal sources can comply with the ESG standards required by the Japanese, South Korean, European and north American EV sectors, particularly where submarine tailings disposal is used. Similarly, with more than 3,000mm of annual rainfall in the tropical laterites, it is an immense challenge for long-term tailings stabilisation.

The KNP semi-arid climate with robust environmental setting is likely just as important as the premium goethite, high nickel grade and excellent ore rheology for its economic attractiveness.

Rehabilitation of legacy exploration at Ardea's Bulong tenements, approximately 30km east of the City of Kalgoorlie-Boulder (Figure 3), was completed during the Quarter with all remnant drill-collars plugged below ground, RC sample bags removed, and sumps backfilled and scarified. Historic gold mine shafts have been mapped, fenced off and costeans backfilled.



2. WA NICKEL SULPHIDE and CRITICAL MINERALS

Ardea’s extensive and strategic land holding in the Eastern Goldfields of WA comprises 168 tenements, covering over 4,100km² and in addition to the globally significant nickel-cobalt-scandium KNP resource, is highly prospective for nickel sulphides and Critical Minerals (Figure 9).

Ardea Nickel Sulphide Strategy

The Company priority continues to be the development of the KNP, commencing with the Goongarie Hub nickel laterite deposits. However, Ardea’s tenure in the heart of the Eastern Goldfields of Western Australia is also highly prospective for komatiite-hosted nickel sulphide deposits which are mined extensively throughout the region.

Ardea’s nickel sulphide strategy complements the development of the KNP. The KNP nickel sulphide targets are an asset in a region of multiple nickel sulphide concentrators, with most constrained by insufficient sulphide feed availability.

Nickel sulphide also has potential value for a nickel laterite operation, in that it is a potential addition to any goethite autoclave feed for exothermic heating (optimise steam use), Eh reduction to control hexavalent chromium and adding nickel and sulphur units to the autoclave reaction vessel, and typically improving overall nickel recoveries.

An additional bonus is that metal concentrations considered deleterious to conventional nickel sulphide flotation concentrator processing (and that have historically curtailed development of several Eastern Goldfields nickel sulphide deposits) do not affect the HPAL process, opening the possibility of mineral extraction from nickel sulphide deposits that may otherwise be overlooked.

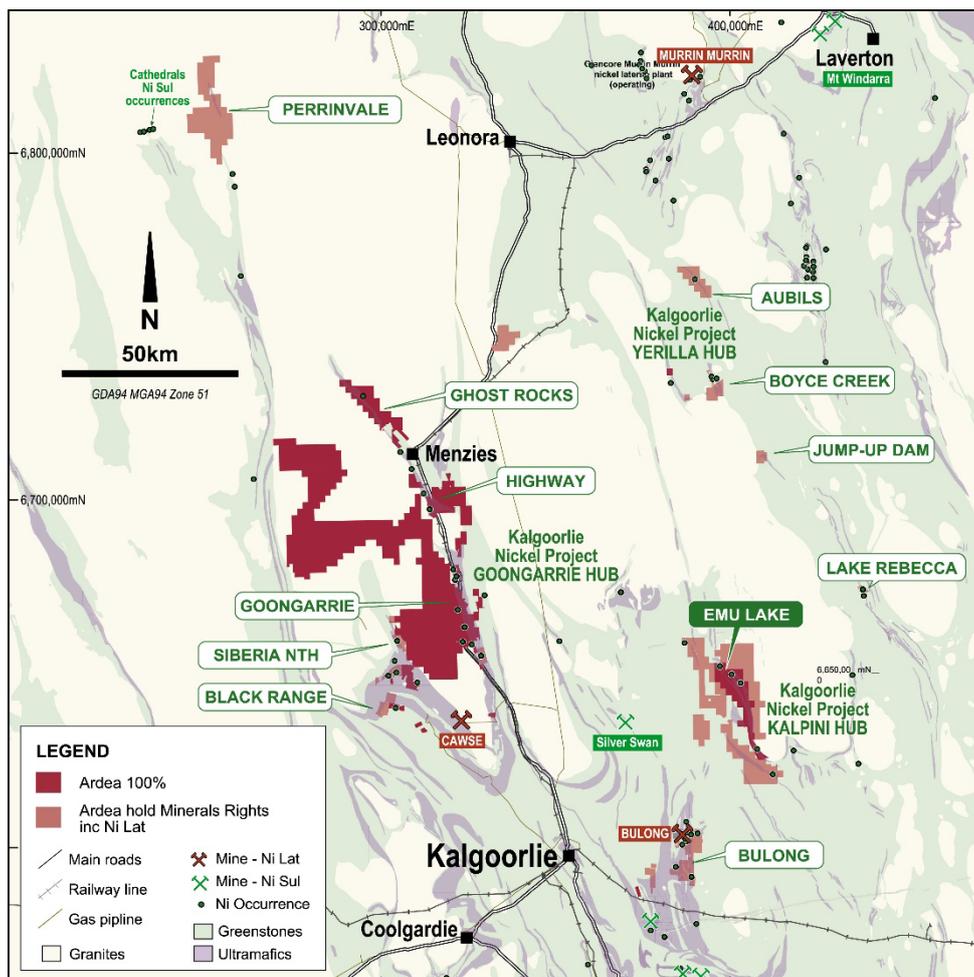


Figure 9: Ardea tenement plan highlighting the location of the Kalpini Project, Emu Lake Nickel Sulphide Camp and nickel mines and deposits in the region. Projection MGA 94 Zone 51.



Kalpini Nickel Sulphide Project

Ardea's Kalpini Project is located 70km north-east of the City of Kalgoorlie-Boulder and covers 121km² of contiguous granted tenure 100%-owned by Ardea (Figure 9 and 10). The Type 1 massive nickel-copper-PGE sulphides recently discovered at the Binti Prospect at Emu Lake occur in the Kurnalpi Terrane which is significant given there are only a few other Type 1 nickel sulphide occurrences in this Terrane. Ardea hold approximately 20km strike of the prospective ultramafic sequence (mostly on granted mining leases) that is largely unexplored for primary magmatic nickel sulphide mineralisation.

Regionally there are two distinct Kalpini ultramafic units each with 20-25km strike within Ardea tenure (Figure 10):

- The **Kalpini Eastern Komatiite Belt** hosts the Wellington East and Acra North nickel laterite deposits containing **75Mt at 0.73% nickel and 0.04% cobalt**, for 549.7kt nickel and 32.6kt cobalt (Ardea ASX release 16 June 2021). The ultramafics are typical of the Walter Williams Formation style consisting of a thick 200-600m sheet with olivine orthocumulate upper and lower contacts with middle olivine meso to adcumulate which weathers to nickel laterite (Dunitic Sheet Flows-Layered Lava Lakes).
- The **Kalpini Western Komatiite Belt** hosts the Emu Lake Nickel Sulphide mineralisation. There are at least two fertile nickel sulphide ultramafic flows at Emu Lake. The volcanics are characterised by a bi-modal co-magmatic suite, with each cycle having a footwall dacite volcanic overlain by ultramafic volcanic flows. The ultramafic component of the flows is typically 10-40m thick, with dacite being the main footwall component. Massive, matrix, blebby and disseminated nickel sulphides identified to date occur in the Western Ultramafic (**WU**) and Central Ultramafic (**CU**) flows. The Western Komatiite Belt overlies a thick felsic volcanic sequence and is presumably a younger flow sequence.

Historic nickel sulphide exploration within the Kalpini Western Komatiite Belt has focussed on the Eastern Ultramafic and Central Ultramafic, with key historic drill hole being ELD015: 2m at 6.08% Ni (ASX release 7 February 2022). Historic drill testing of the Western Ultramafic was restricted to minimal "scissor" sections with easterly drill directions. The 2021-2022 drill testing of the Western Ultramafic at Binti discovered significant komatiite-hosted massive Ni-Cu-PGE sulphides (AELD0003: 2.72m at 5.42% Ni and 0.85% Cu from 391.04m including 1.23m at 8.22% Ni and 0.56% Cu from 391.04m) (Ardea ASX releases 3 December 2021 and 14 January 2022).

During the March Quarter, updated 3D modelling at Binti Prospect was completed, with geochemistry and modelling indicating the "hottest" (most prospective) ultramafic flows are at Binti Central at depth, with the interpreted lava channels still open. A diamond drill program has been planned to comprise five holes for 2,900m mostly in the Binti area (Figure 10), which could be executed once current Goongarrie Hub PFS programs are completed.

The current interpretation is that the massive sulphide mineralisation at the Binti Prospect may be defined by tight folding around primary lava pathways, with mineralisation on or close to primary basal contact positions. These lava pathway positions are currently interpreted as moderate to steeply south plunging. The mineralised channel positions are open both up and down plunge. Previous nickel sulphide intersections at the Binti Gossan occur in the Central Ultramafic, whereas thicker intersections at Binti Central and Binti South occur in the Western Ultramafic which is absent at the Binti Gossan Prospect.

While the width of these potential lava channels may appear limited (typically 100m), they can have significant continuation down plunge. An example is the high-grade Silver Swan mine located 35km to the west, that has a shallow strike length of <100m but a down plunge extent of over 1,000m.

Regional technical targeting using detailed geochemical ratios, geophysical data, geological and structural interpretation to generate a pipeline of nickel sulphide exploration targets in the ~20km strike Western Komatiite sequence is now complete. The review identified twelve (12) target areas (Figure 10), with exploration RC drill programs being planned.

An aircore program of twenty-four vertical holes for 1,077m was completed in the previous Quarter. The program was designed along three traverse lines with 80m centres to infill previous laterite drilling and as a first pass assessment of nickel sulphide potential. Drill holes intersected various thicknesses of prospective ultramafic both in weathered profile and also fresh rock in the Western Komatiite sequence. Initial assay results from the aircore drill program have just been received and are being assessed, with a release of results once final data is received.

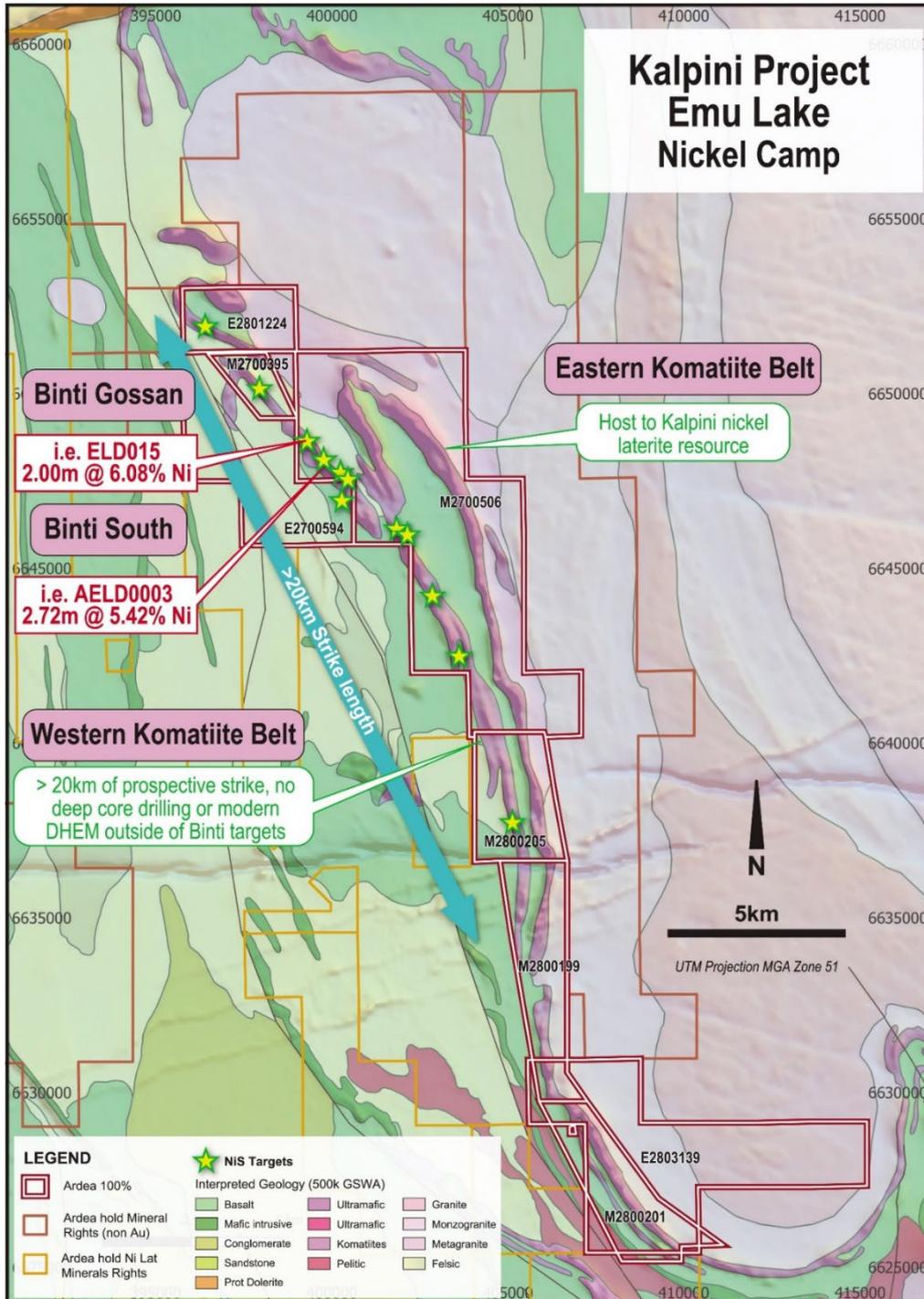


Figure 10: Interpreted geology of the Kalpini Project showing magnetic Komatiite Belts with the historic nickel laterite resource located on the Eastern Komatiite Belt, with the Western Belt largely untested for nickel sulphide mineralisation. Tenements are shown over interpreted geology and recent nickel sulphide (NiS) targets (stars) Projection MGA 94 Zone 51.

Assay Results

Assay results were returned from Ardea core hole AELD0010 which was drilled 6km south/southeast of the Binti prospect targeting a regional magnetic high where previous drilling identified broad zones with >100ppb Pd and >200ppm Cu (up to 1,070ppm Cu) in ultramafic (drill hole KPDD0001).

AELD0010 assay results showed no obvious nickel sulphide mineralisation but >50ppb Pt+Pd in ultramafic from 119-125m, 132-138m and 232-242m downhole, the latter two intersections with possible fine disseminated sulphides. Based on these assay results and lack of DHEM conductors, no priority follow-up exploration is planned, at this stage.



Lithium Exploration

During the Quarter lithium exploration was focused on testing LCT (Lithium-Caesium-Tantalum) pegmatite targets primarily at the Perrinvale and Ghost Rocks Projects, that were recognised as priority projects from the desktop review completed by consultant CSA Global during the previous Quarter.

The **Perrinvale Project** has had no previous exploration for LCT pegmatites or komatiite-hosted nickel sulphides. The northern portion of the tenement was recently assessed with a four-day field sampling and mapping program (Figure 11). Extensive outcropping prospective fractionated pegmatites were identified (25 pegmatites sampled), the largest extending >200m along strike and up to 20m thick. Most of the pegmatites occur at the contact between different geological units. Assay results were also returned from the LCT pegmatite rock chip sampling program in the southern portion of the tenement (27 samples), with no anomalous LCT results. Further mapped pegmatites are still to be sampled, mostly in the northern and western part of the tenement. Field sampling of the untested komatiite ultramafic that extends for ~10km strike was also completed, with a possible gossanous unit identified on the western contact which has been sampled to determine nickel sulphide prospectivity.

At the **Ghost Rocks Project** multiple field sampling and mapping programs were completed during the Quarter. Assay results returned from the first round of sampling identified six samples with elevated Ta (up to 373ppm) which could be from an LCT pegmatite, as these are usually zoned. Also, positive geochemical ratios indicating prospective pegmatites ($K/Rb < 100$) were identified in multiple samples (Figure 12). Two new areas were recently sampled within the 6km prospective zone, with pegmatites >10m thick with variable mineral species. Another pegmatite swarm was recently identified on the east side of the internal granite and another 'moderate' size pegmatite (>5m thick, 20m+ strike) on the contact of the internal granite. This internal granite contact at Ghost Rocks seems prospective and will be further assessed. An additional 20 rock chip samples were taken, with assay results just returned showing the most southern pegmatites have $K/Rb < 30$ (Figure 12) with up to 1500ppm Rb and require follow-up. One sample had elevated V-Ti-Fe (0.32% V_2O_5) in a 'gossan' confirmed by a recent field visit. This anomaly may be from a mafic source, with additional field work required.

A site trip was also completed to the **Mulga Plum Project** 40km north of Menzies, which comprises two tenements (E40/350 and E40/357) where Ardea owns non-gold rights. There are two large features mapped as "granitic pegmatites" but field inspection identified granite intrusions. There were some thin (<5m thick) pegmatites on the contact with basalts that were sampled in several areas.

Rare Earth Element Evaluation

Goongarrie West

Three separate aircore holes from the sterilisation drill program completed in September 2022 returned anomalous REE results at Goongarrie West. Intercepts of Total Rare-Earth Oxides (**TREO**) at a 1,000ppm TREO cut-off for the three holes include (ASX release 30 January 2022):

- AGSA0224, 7m at 3,506ppm TREO from 64m
- AGSA0225, 12m at 2,487ppm TREO from 40m
- AGSA0226, 4m at 1,181ppm TREO from 56m.

The flat-lying interpreted clay-hosted REE horizon occurs along the eastern contact of a granite at Goongarrie West over an interpreted intermediate igneous basement. Once the AGSA0224-226 TREO intercepts were interpreted, very similar mineralisation was identified in historic drill holes, AGWR0012-13, extending the strike extent of mineralisation that could be over 300m in width and over 3km in strike, and is still open.

Representative samples from drillhole AGSA0225 were despatched to Bureau Veritas for bench-scale metallurgical test work to assess REE extraction from the clay host. Initial metallurgical test work results indicate leach extraction will require quite aggressive ore dissolution, so in view of far higher test work priorities with the nickel laterite PFS, work at Goongarrie West is in abeyance.

The identified REE mineralisation likely excludes Goongarrie West as a future Goongarrie Hub permanent infrastructure site.

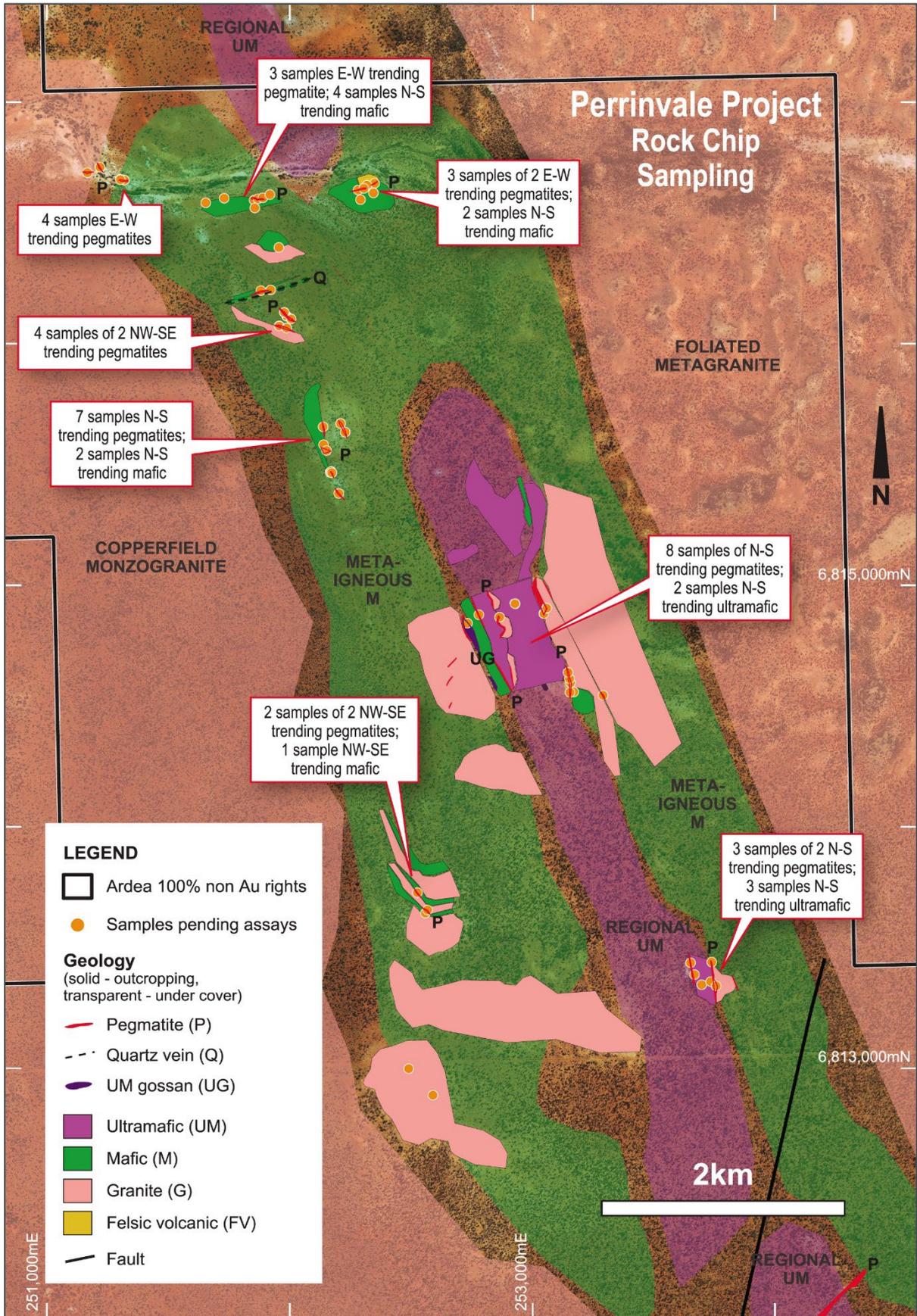


Figure 11: Perrinvale map showing recent field sampling program and preliminary geological interpretation. Projection: MGA94 Zone 51.

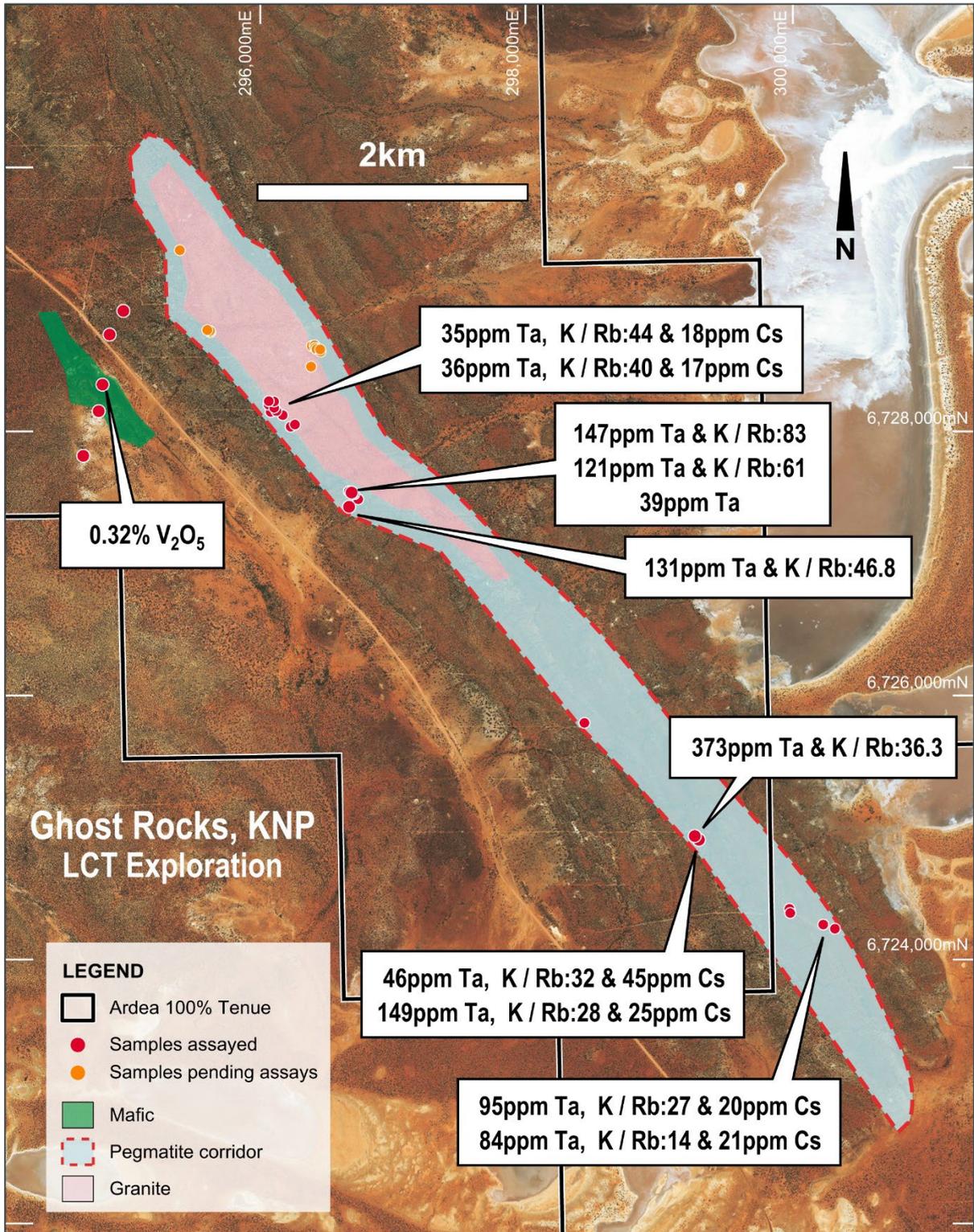


Figure 12: Ghost Rocks LCT pegmatite and sampling map with preliminary geological interpretation. Projection: MGA94 Zone 51.



3. CORPORATE

Strategy

Ardea's priority is the KNP nickel-cobalt laterite project development, commencing with Goongarrie, to produce sustainably and ethically sourced battery minerals for the LIB supply chain to further advance the transition to a low carbon future.

The starter KNP development project is the Goongarrie Hub to capitalise on the premium goethite ore type and infrastructure-rich location. Complementary exploration opportunities in nickel sulphides and Critical Minerals (notably REE) will also be pursued, such as the Ardea nickel sulphide discoveries at Emu Lake, LCT pegmatite exploration and REE exploration.

Finance

The Company's cash position was \$14.5M at Quarter end with no debt. All current programs are well funded.

Issued capital at 31 March 2023 was 171,502,772 shares, with 6,793,000 Performance Rights and 4,000,000 options.

Subsequent to Quarter end, 289,000 Performance Rights were issued (ASX release 24 April, 2023), with 7,082,000 Performance Rights currently issued.

Summary of Expenditures for the Quarter

During the Quarter, the Company incurred a total net expenditure from operating activities of \$0.8M. This was made up of \$2.38M expended on exploration and evaluation activities including feasibility studies, \$115k on staff costs and \$220k on administrative and corporate costs, with the balance on minor items. Funds received during the Quarter included interest of \$72k, R&D tax rebate of \$1.77M (ASX release 6 February 2023), GST refund of \$61k and bond refund of \$10k.

Included in these costs were payments made to Directors of the entity and their associates. These payments were Directors Salaries and Superannuation payments and Consulting fees of \$203k and rental for the Company's West Kalgoorlie operations office of \$25k for the Quarter. All payments were made on an arm's length basis.

Further details on Quarterly expenditures are included in the Appendix 5B – Quarterly Cashflow Report attached to this Quarterly Report.

Grant Application

During the Quarter the Australian Government announced the opening of the Critical Minerals Development Program. This is a competitive-based grants program which aims to provide funding to help progress early to mid-stage Critical Minerals projects towards financing and production. Ardea submitted an application for this grant and awaits the outcome.

Investor Relations and Stakeholder Engagement

During the Quarter, Ardea drafted and made submissions to the Federal Government on the Critical Minerals Discussion Paper, Battery Strategy and National Reconstruction Fund. These submissions were aimed at helping shape government policy to maximise the opportunities for Australia to benefit from its World-leading natural endowment of Battery and Critical Minerals and leverage competitive advantages, such as ESG and supply chain diversity.

Representatives from Ardea attended the RIU Explorers Conference from 14-16 February 2023, the Paydirt Battery Minerals Conference from 21-22 March 2023, the AIG Rare Earth Element Seminar on 21 March 2023 and the GSWA Big Day Out Conference on 20-21 March 2023. The Company also held a staff technical exploration workshop in Kalgoorlie from 27-31 March 2023 which was attended by key Directors, Executive Management and Technical team members.

In April, Andrew Penkethman spent a week in Japan, as part of an Australian Critical Minerals delegation meeting with various government and industry representatives, with the aim of increased cooperation between Australia and Japan.



These meetings (Figure 13) provide Ardea with firsthand insights into the Battery and Critical Minerals sector and highlight the need for a coordinated Australian response to secure supply chains of sustainable and ethical mineral supply with key trading partners and allies.



Figure 13a: Ardea Managing Director, Andrew Penkethman, presenting at a Critical Minerals Seminar at the Australian Embassy in Tokyo.



Figure 13b: Ardea Managing Director, Andrew Penkethman, attending an Austrade organised Australia's Future Battery Supply Chains Seminar in Seoul.



4. LOOKING FORWARD

During the June 2023 Quarter, Ardea will focus upon the following programs.

Kalgoorlie Nickel Project

Ardea will continue to work with all stakeholders, including industry groups and the Federal and State Governments to ensure project development is predicated on sustainable and ethical standards.

KNP PFS

The current priority is finalisation of the PFS and all associated inputs utilising both supporting consultants and Ardea's Owner's Team. Priority areas for the June 2023 Quarter include finalisation of the following PFS deliverables:

- Detailed PFS report.
- Capital and Operating Cost Estimates.
- Financial Model.
- LCA.
- Further integration of the Forward Work Plan into the PFS deliverables with particular emphasis on the Project Execution Strategy.

Strategic Partner Process

- Maintain engagement with proactive groups who have executed confidentiality agreements and are active in the Virtual Data Room, and work with new parties who have contacted Ardea and want to accelerate their engagement.
- Consider the merits of Ardea and advisors selecting a preferred project Partner to work with Team Ardea on completing a DFS, making a Final Investment Decision, securing project funding and developing the Goongarrie Hub. The investment model presented in engagements is reaching milestones under which a Strategic Partner secures off-take, and ensuring Ardea retains all off-take until project funding is secured.
- There are also mechanisms for advancing the project as a 100%-owned asset.

In all Strategic Partner engagements, securing off-take is the primary driver, with these rights only available if there is a project equity investment and critically, securing project finance.

Mineral Resource Updates

- Complete an initial Lake Rebecca MRE.
- Continuing MRE work at Ghost Rocks, Siberia South, Kalpini, Bulong, Yerilla satellite nickel-cobalt deposits.
- Incorporate archived pulp re-assays with all new resource updates.

These satellite deposits can be considered as additional plant feed for the Goongarrie Hub, or developed to support a standalone Kalpini Hub or Yerilla Hub to further increase nickel-cobalt production rates from the KNP.

Flow Sheet Research and Development

Continue evaluating additional by-product credit potential from the HPAL/AL pregnant liquor solution to supplement the nickel-cobalt-scandium resource.

The R&D continues to focus upon minimising the project development footprint and carbon emissions, while adhering to Western Australia's world-class safety, health, environmental and operating standards.



Stakeholder Engagement

- Community consultation, in particular with our First Nations groups, the City of Kalgoorlie Boulder, Shire of Menzies, Southern Ports Esperance and all other stakeholders.
- Continue engagement with groups such as the Australian Commonwealth Government Austrade, DFAT, CMO and MPFA, WA State Government, and for R&D the FBICRC and CSIRO.

WA Nickel Sulphide, Critical Minerals

Kalpini Nickel Sulphide

- Diamond drilling planned at the Binti prospect will be further assessed based on results from the recent drilling, DHEM and updated 3D geological modelling. Exploration RC drilling planned to test the 12 recently generated regional targets will also be assessed. These planned drill programs will only be executed once current high priority Goongarrie Hub PFS programs are completed.
- In the interim, field mapping and sampling of the fertile Western Ultramafic will continue.

Lithium

Review assay results from the ongoing rock chip sampling and mapping programs at Perrinvale and Ghost Rocks and plan follow-up exploration on priority target areas.

Other KNP Projects

Ardea will continue assessment for nickel sulphide potential at other projects in the KNP including the Goongarrie Hub, Kalpini Hub, Yerilla Hub and Perrinvale. All projects comprise significant volumes of komatiite ultramafic flows that are either underexplored or unexplored for magmatic nickel sulphides. Other project areas will also continue to be cost effectively reviewed using Ardea's extensive database, sample drill pulps available for re-assay at the West Kalgoorlie office and detailed geophysical datasets.

Investor Relations and Stakeholder Engagement

Andrew Penkethman attended an Austrade Critical Minerals delegation to Japan in April 2023 and management will continue discussions with potential Strategic Partners throughout the June 2023 Quarter.



This announcement is authorised for release by the Board of Ardea Resources Limited.

For further information regarding Ardea, please visit <https://ardearesources.com.au/> or contact:

Andrew Penkethman

Managing Director and Chief Executive Officer

Tel +61 8 6244 5136



About Ardea Resources

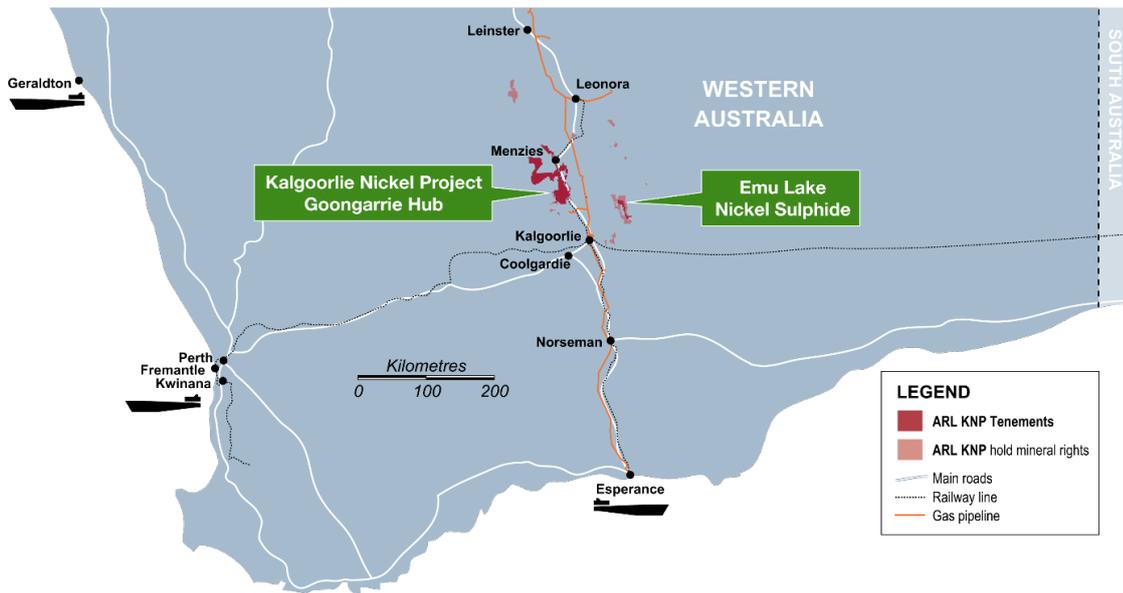
Ardea Resources (ASX:ARL) is an ASX-listed nickel resources company, with a large portfolio of 100%-controlled West Australian-based projects, focussed on:

- Development of the Kalgoorlie Nickel Project (**KNP**) and its sub-set the Goongarrie Hub, a globally significant series of nickel-cobalt and Critical Mineral deposits which host the largest nickel-cobalt resource in the developed World at **830Mt at 0.71% nickel and 0.046% cobalt for 5.9Mt of contained nickel and 380kt of contained cobalt** (Ardea ASX releases 15 February, 16 June 2021), located in a jurisdiction with exemplary Environmental Social and Governance (**ESG**) credentials, notably environment.
- Advanced-stage exploration at compelling nickel sulphide targets, such as Emu Lake, and Critical Minerals targets including scandium and Rare Earth Elements throughout the KNP Eastern Goldfields world-class nickel-gold province, with all exploration targets complementing the KNP nickel development strategy.

Ardea’s KNP development with its 5.9 million tonnes of contained nickel is the foundation of the Company, with the nickel sulphide exploration, such as Emu Lake, as an evolving contribution to Ardea’s building of a green, forward-facing integrated nickel company.

Put simply, in the Lithium Ion Battery (**LIB**) sector, the Electric Vehicle and Energy Storage System battery customers demand an ESG-compliant, sustainable, and ethical supply chain for nickel and other inputs. In the wet tropics, with their signature HPAL submarine tailings disposal and rain forest habitat destruction, an acceptable ESG regime is problematic. In contrast, the world-class semi-arid, temperate KNP Great Western Woodlands with its benign environmental setting is likely the single greatest asset of the KNP.

The KNP is located in a well-established mining jurisdiction with absolute geopolitical acceptance and none of the land-use and societal conflicts that commonly characterise nickel laterite proposals elsewhere. All KNP Goongarrie Hub production tenure is on granted Mining Leases with Native Title Agreement in place.



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COMPLIANCE STATEMENT (JORC 2012)

A competent person's statement for the purposes of Listing Rule 5.22 has previously been announced by the Company for:

1. PFS 28 March 2018 and Expansion Study 24 July 2018.
2. GNCP High Grade Resource - 60 million tonne at 1.0% Nickel Sustainable Long-life Battery Metal Resource Confirmed, 15 February 2021.
3. Highway Nickel Deposit - Mineral Resource Estimate, 16 June 2021.
4. Emu Lake Nickel Sulphide Discovery confirmed with 2.72m at 5.42% Ni, 14 January 2022.
5. Goongarrie Hub Feasibility Study Update, 25 January 2022.
6. Emu Lake Nickel Sulphide Camp Follow-Up Program, 7 February 2022.
7. High-grade Nickel-Cobalt Confirmed at Kalpini with Scandium and Rare Earth Elements, 14 March 2022.
8. Kalgoorlie Nickel Project Awarded Major Project Status, 18 March 2022.
9. Kalgoorlie Nickel Project Recognition on All Tiers of Australian Government, 21 March 2022.
10. Kalgoorlie Nickel Project Feasibility Study Update, 14 June 2022.
11. Kalgoorlie Nickel Project Strategy Update, 9 September 2022.
12. Australian Nickel Conference, 6 October 2022.
13. Appendix 4G and 2022 Corporate Governance Statement, 27 September 2022.
14. Annual Report 2022, 27 September 2022.
15. Australian Nickel Conference Presentation, 6 October 2022.
16. Emu Lake Nickel Sulphide Exploration Update, 14 October 2022.
17. Notification of Issue, Conversion or Payment up of Unquoted Equity Securities, 28 October 2022.
18. Kalgoorlie Nickel Project: Metallurgical Update – Mineralised Neutraliser, 16 November 2022.
19. Eastern Goldfields Projects Exploration Update, 22 November 2022.
20. Notification of Issue, Conversion or Payment up of Unquoted Equity Securities, 22 November 2022.
21. Ardea Completes KNP ESG Accreditation from Independent Leading Global Platform, 24 November 2022.
22. Ardea appoints Project Director, 18 January 2023.
23. Kalgoorlie Nickel Project - Goongarrie West Drilling Ionic Clay Rare Earth Discovery, 30 January 2023.
24. Eastern Goldfields Projects Exploration Update, 15 March 2023.

The Company confirms that it is not aware of any new information or data that materially affects information included in previous announcements, and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. All projects are subject to new work programs, notably drilling, metallurgy and JORC Code 2012 resource estimation as applicable.

The information in this report that relates to Resource Estimates for the KNP is based on information originally compiled by previous and current full-time employees of Heron Resources Limited and current full-time employees of Ardea Resources Limited. The Exploration Results, Resource Estimates and data collection processes have been reviewed, verified and re-interpreted by Mr Ian Buchhorn who is a Member of the Australasian Institute of Mining and Metallurgy and currently a director of Ardea Resources Limited. Mr Buchhorn has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the exploration activities undertaken 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 Buchhorn consents to the inclusion in this report of the matters based on his information in the form and context that it appears. Mr Buchhorn owns Ardea shares.

The exploration and industry benchmarking summaries are based on information reviewed or compiled by Mr Andrew Penkethman, who is a Fellow of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Mr Penkethman is a full-time employee of Ardea Resources Limited and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which 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 Penkethman has reviewed this press release and consents to the inclusion in this report of the information in the form and context in which it appears. Mr Penkethman owns Ardea shares.



ASX CHAPTER 5 COMPLIANCE AND PFS CAUTIONARY STATEMENT

The Company has concluded that it has a reasonable basis for providing the forward-looking statements and forecast financial information included in this announcement. The detailed reasons for that conclusion are outlined throughout this announcement and all material assumptions, including the JORC modifying factors, upon which the forecast financial information is based are disclosed in this announcement. This announcement has been prepared in accordance with the JORC Code (2012) and the ASX Listing Rules.

The actual results could differ materially from a conclusion, forecast or projection in the forward-looking information. Certain material factors were applied in drawing a conclusion or making a forecast or projection as reflected in the forward-looking information.

The Goongarrie Nickel Cobalt Project is at the PFS phase and although reasonable care has been taken to ensure that the facts are accurate and/or that the opinions expressed are fair and reasonable, no reliance can be placed for any purpose whatsoever on the information contained in this document or on its completeness. Actual results and developments of projects and the scandium market development may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.

A key conclusion of the PFS and Expansion Study, which are based on forward looking statements, is that the Goongarrie Nickel Cobalt Project is considered to have positive economic potential.

The Mineral Resource used for the PFS was classified under JORC 2012 Guidelines and announced by the Company on 14 March 2018. The cut-off grades adapted for the PFS and reported in Table 3.1 are the basis of the production target assumed for the PFS.

The Company believes it has a reasonable basis to expect to be able to fund and further develop the Goongarrie Nickel Cobalt Project. However, there is no certainty that the Company can raise funding when required.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION

This news release contains forward-looking statements and forward-looking information within the meaning of applicable Australian securities laws, which are based on expectations, estimates and projections as of the date of this news release.

This forward-looking information includes, or may be based upon, without limitation, estimates, forecasts and statements as to management's expectations with respect to, among other things, the timing and amount of funding required to execute the Company's programs, development and business plans, capital and exploration expenditures, the effect on the Company of any changes to existing legislation or policy, government regulation of mining operations, the length of time required to obtain permits, certifications and approvals, the success of exploration, development and mining activities, the geology of the Company's properties, environmental risks, the availability of labour, the focus of the Company in the future, demand and market outlook for precious metals and the prices thereof, progress in development of mineral properties, the Company's ability to raise funding privately or on a public market in the future, the Company's future growth, results of operations, performance, and business prospects and opportunities. Wherever possible, words such as "anticipate", "believe", "expect", "intend", "may" and similar expressions have been used to identify such forward-looking information. Forward-looking information is based on the opinions and estimates of management at the date the information is given, and on information available to management at such time. Forward-looking information involves significant risks, uncertainties, assumptions, and other factors that could cause actual results, performance or achievements to differ materially from the results discussed or implied in the forward-looking information. These factors, including, but not limited to, fluctuations in currency markets, fluctuations in commodity prices, the ability of the Company to access sufficient capital on favourable terms or at all, changes in national and local government legislation, taxation, controls, regulations, political or economic developments in Australia or other countries in which the Company does business or may carry on business in the future, operational or technical difficulties in connection with exploration or development activities, employee relations, the speculative nature of mineral exploration and development, obtaining necessary licenses and permits, diminishing quantities and grades of mineral reserves, contests over title to properties, especially title to undeveloped properties, the inherent risks involved in the exploration and development of mineral properties, the uncertainties involved in interpreting drill results and other geological data, environmental hazards, industrial accidents, unusual or unexpected formations, pressures, cave-ins and flooding, limitations of insurance coverage and the possibility of project cost overruns or unanticipated costs and expenses, and should be considered carefully. Many of these uncertainties and contingencies can affect the Company's actual results and could cause actual results to differ materially from those expressed or implied in any forward-looking statements made by, or on behalf of, the Company. Prospective investors should not place undue reliance on any forward-looking information.

Although the forward-looking information contained in this news release is based upon what management believes, or believed at the time, to be reasonable assumptions, the Company cannot assure prospective purchasers that actual results will be consistent with such forward-looking information, as there may be other factors that cause results not to be as anticipated, estimated or intended, and neither the Company nor any other person assumes responsibility for the accuracy and completeness of any such forward-looking information. The Company does not undertake, and assumes no obligation, to update or revise any such forward-looking statements or forward-looking information contained herein to reflect new events or circumstances, except as may be required by law.

No stock exchange, regulation services provider, securities commission or other regulatory authority has approved or disapproved the information contained in this news release.

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Ardea Resources Limited

ABN

30 614 289 342

Quarter ended ("current quarter")

31 March 2023

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	-	-
1.2 Payments for		
(a) exploration & evaluation	(1,120)	(4,072)
(b) Feasibility Studies	(1,264)	(4,353)
(c) production	-	-
(d) staff costs	(115)	(430)
(e) administration and corporate costs	(220)	(975)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	72	116
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid/received	61	479
1.7 Government grants and tax incentives	1,781	1,781
1.8 Other (provide details if material) –	-	-
	-	-
1.9 Net cash from / (used in) operating activities	(803)	(7,452)
2. Cash flows from investing activities		
2.1 Payments to acquire or for:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	(2)	(57)
(d) exploration & evaluation	-	-
(e) investments	-	-
(f) other non-current assets	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	(55)	(55)
3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(5)	(5)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	(5)	(5)
4.	Net increase / (decrease) in cash and cash equivalents for the period	(812)	(7,516)
4.1	Cash and cash equivalents at beginning of period	15,314	22,018
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(805)	(7,454)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(2)	(57)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(5)	(5)

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	
4.6	Cash and cash equivalents at end of period	14,502	14,502

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	1,837	1,671
5.2	Call deposits	12,665	13,643
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	14,502	15,314

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	228
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.

Salaries, Directors fees and Consulting fees paid to Directors - \$203,000
Payments for Kalgoorlie Office to a Director related entity for the quarter - \$25,000

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

7. Financing facilities	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
7.1 Loan facilities	-	-
7.2 Credit standby arrangements	-	-
7.3 Other (please specify)	-	-
7.4 Total financing facilities	-	-
7.5 Unused financing facilities available at quarter end		-
7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		

8. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (item 1.9)	(805)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	-
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(805)
8.4 Cash and cash equivalents at quarter end (item 4.6)	14,502
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	14,502
8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)	18
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer: N/A	
8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer: N/A	

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: N/A

Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 27 April 2023

Authorised by: Ardea Board of Directors

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.



Ardea Resources Limited Tenement Schedule (WA) as at 31 March 2023

Goongarrie Hub

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E24/196	Goongarrie	100	Live		M24/731	Goongarrie	100	Live	3
E24/209	Goongarrie	100	Live		M24/732	Goongarrie	100	Live	3
E24/211	Goongarrie	100	Pending		M24/744	Goongarrie	100	Live	
E29/934	Goongarrie	100	Live		M24/778	Goongarrie	100	Live	3
E29/1028	Goongarrie	100	Live		M29/167	Goongarrie	100	Live	
E29/1038	Goongarrie	100	Live		M29/202	Goongarrie	100	Live	
E29/1039	Goongarrie	100	Pending		M29/272	Goongarrie	100	Live	
E29/1045	Goongarrie	100	Live		M29/278	Goongarrie	100	Live	
E29/1048	Goongarrie	100	Live		M29/423	Goongarrie	100	Live	
E30/500	Goongarrie	100	Live		M29/424	Goongarrie	100	Live	
E30/501	Goongarrie	100	Live		M29/426	Goongarrie	100	Live	
E30/502	Goongarrie	100	Live		P24/5260	Goongarrie	100	Live	
G29/25	Goongarrie	100	Pending		P24/5328	Goongarrie	100	Live	
L24/239	Goongarrie	100	Live		P24/5329	Goongarrie	100	Live	
L29/134	Goongarrie	100	Live		P24/5265	Goongarrie-Carr Boyd	100	Live	
L29/135	Goongarrie	100	Live		P24/5169	Goongarrie-Windanya	100	Live	
L30/67	Goongarrie	100	Live		P24/5480	Goongarrie-Windanya	100	Live	
L30/68	Goongarrie	100	Live		M24/919	Goongarrie-Scotia	100 Ni rights	Live	6
L16/141	Goongarrie	100	Live		M24/959	Goongarrie-Scotia	100 Ni rights	Live	6
L30/85	Goongarrie	100	Live		M24/541	Goongarrie	100	Live	
P29/2646	Highway North	100	Live		P29/2650	Highway North	100	Live	
P29/2647	Highway North	100	Live		P29/2651	Highway North	100	Live	
P29/2648	Highway North	100	Live		E29/1125	Goongarrie East	100	Live	16
P29/2649	Highway North	100	Live		E29/1082	Goongarrie	100	Live	
P24/5528	Goongarrie	100	Live		E29/1089	Goongarrie	100	Live	
P29/2559	Highway North	100	Live		P29/2561	Highway North	100	Live	
P29/2560	Highway North	100	Live		P29/2562	Highway North	100	Live	
P29/2501	Highway - Moriarty	100	Live		E29/941	Ghost Rocks	100	Live	
P29/2511	Ghost Rocks	100	Live		E29/981	Ghost Rocks	100	Live	
P29/2512	Ghost Rocks	100	Live		M29/214	Highway	100	Live	
P29/2513	Ghost Rocks	100	Live		P29/2538	Ghost Rocks	100	Live	
P29/2514	Ghost Rocks	100	Live		P29/2539	Ghost Rocks	100	Live	
P29/2515	Ghost Rocks	100	Live		E29/1083	Goongarrie	100	Live	
L16/143	Goongarrie – Credo West	100	Live		L16/147	Goongarrie – Credo West	100	Live	
L16/144	Goongarrie – Credo West	100	Live		L16/148	Goongarrie – Credo West	100	Live	
L16/145	Goongarrie – Credo West	100	Live		L30/95	Goongarrie – Credo West	100	Live	
L16/146	Goongarrie – Credo West	100	Live		L24/253	Goongarrie	100	Pending	
L24/252	Goongarrie	100	Pending		L24/254	Goongarrie	100	Pending	

Goongarrie Hub Expansion

Siberia

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E24/203	Siberia	100 non Au-Ag right	Live	4	P24/5235	Siberia	100	Live	
E29/889	Siberia	100 non Au-Ag right	Live	4	P24/5236	Siberia	100	Live	
M24/634	Siberia	100 non Au-Ag rights	Live	1,4	P29/2484	Siberia	100	Live	
M24/660	Siberia	100 non Au-Ag rights	Live	4	P29/2485	Siberia	100	Live	
M24/663	Siberia	100 non Au-Ag rights	Live	4	P24/5416	Siberia	100	Live	
M24/664	Siberia	100 non Au-Ag rights	Live	4	P24/5417	Siberia	100	Live	
M24/665	Siberia	90 non Au-Ag rights	Live	2,4	P24/5418	Siberia	100	Live	
M24/683	Siberia	100 non Au-Ag rights	Live	4	P24/5566	Siberia	100	Live	



Ardea Resources Limited Quarterly Report as at 31 March 2023

M24/686	Siberia	100 non Au-Ag rights	Live	4	P24/5567	Siberia	100	Live	
M24/772	Siberia	100 non Au-Ag rights	Live	4	L24/248	Siberia	100	Pending	
M24/797	Siberia	100 non Au-Ag rights	Live	4	L24/249	Siberia	100	Pending	
M24/915	Siberia	100 non Au-Ag rights	Live	4	L24/250	Siberia	100	Live	
M24/916	Siberia	100 non Au-Ag rights	Live	4	L24/251	Siberia	100	Pending	
M24/1002	Siberia	100 non Au-Ag rights	Pending	4	P24/5599	Siberia	100	Pending	
P24/5618	Siberia South	100	Pending		P24/5623	Siberia South	100	Pending	
P24/5619	Siberia South	100	Pending		P24/5624	Siberia South	100	Pending	
P24/5620	Siberia South	100	Pending		P24/5625	Siberia South	100	Pending	
P24/5621	Siberia South	100	Pending		P24/5626	Siberia South	100	Pending	
P24/5622	Siberia South	100	Pending						

Goongarrie Hub Expansion

Black Range

Tenure	Location	Ardea Interest (%)	Status	Note
M24/757	Black Range	100 non Au-Ag rights; 100 ownership	Live	4
M24/973	Black Range	100 non Au-Ag rights	Pending	4
P24/4395	Black Range	100 non Au-Ag rights	Live	4
P24/4396	Black Range	100 non Au-Ag rights	Live	4
P24/4400	Black Range	100 non Au-Ag rights	Live	4
P24/4401	Black Range	100 non Au-Ag rights	Live	4
P24/4402	Black Range	100 non Au-Ag rights	Live	4
P24/4403	Black Range	100 non Au-Ag rights	Live	4
P24/5593	Black Range	100% non Au rights	Pending	14
P24/5594	Black Range	100% non Au rights	Pending	14
P24/5595	Black Range	100% non Au rights	Pending	14
P24/5596	Black Range	100% non Au rights	Pending	14

Kalpini Hub

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E27/524	Kalpini	100 non Au rights	Live	9	P25/2454	Kalpini-Bulong	100 non Au rights	Live	14
E27/606	Kalpini	100 non Au rights	Live	14	P25/2455	Kalpini-Bulong	100 non Au rights	Live	14
E27/607	Kalpini	100 non Au rights	Live	14	P25/2456	Kalpini-Bulong	100 non Au rights	Live	14
E28/1224	Kalpini	100	Live		P25/2457	Kalpini-Bulong	100 non Au rights	Live	14
E28/2978	Kalpini	100 non Au rights	Live	14	P25/2458	Kalpini-Bulong	100 non Au rights	Live	14
M27/395	Kalpini	100	Live		P25/2459	Kalpini-Bulong	100 non Au rights	Live	14
M27/506	Kalpini	100	Live		P25/2460	Kalpini-Bulong	100 non Au rights	Live	14
M27/512	Kalpini	100	Pending		P25/2461	Kalpini-Bulong	100 non Au rights	Live	14
M28/199	Kalpini	100	Live		P25/2482	Kalpini-Bulong	100 non Au rights	Live	14
M28/201	Kalpini	100	Live		P25/2483	Kalpini-Bulong	100 non Au rights	Live	14
M28/205	Kalpini	100	Live		P25/2484	Kalpini-Bulong	100 non Au rights	Live	14
E27/278	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2559	Kalpini-Bulong	100 non Au rights	Live	14
E27/438	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2560	Kalpini-Bulong	100 non Au rights	Live	14
E27/520	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2561	Kalpini-Bulong	100 non Au rights	Live	14
E27/579	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2609	Kalpini-Bulong	100 non Au rights	Live	14
E28/1746	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2613	Kalpini-Bulong	100 non Au rights	Live	14
E28/2483	Kalpini-Acra	100 Ni Lat Ore	Live	5	P25/2614	Kalpini-Bulong	100 non Au rights	Live	14
E25/578	Kalpini-Bulong	100 non Au rights	Live	14	P25/2615	Kalpini-Bulong	100 non Au rights	Live	14
M25/59	Kalpini-Bulong	100 non Au rights	Live	14	P25/2650	Kalpini-Bulong	100 non Au rights	Live	14
M25/134	Kalpini-Bulong	100 non Au rights	Live	14	P25/2305	Kalpini-Bulong	100 non Au rights	Live	13, 14
M25/145	Kalpini-Bulong	100 non Au rights	Live	14	M31/488	Kalpini-Lake Rebecca	100 non Au rights	Pending	14
M25/151	Kalpini-Bulong	100 non Au rights	Live	14	P31/2038	Kalpini-Lake Rebecca	100 non Au rights	Live	14
M25/161	Kalpini-Bulong	100 non Au rights	Live	14	P31/2039	Kalpini-Lake Rebecca	100 non Au rights	Live	14
M25/171	Kalpini-Bulong	100 non Au rights	Live	14	P31/2040	Kalpini-Lake Rebecca	100 non Au rights	Live	14
M25/187	Kalpini-Bulong	100 non Au rights	Live	14	E27/647	Kalpini	100 non Au rights	Live	14
M25/209	Kalpini-Bulong	100 non Au rights	Live	14	P25/2306	Kalpini-Bulong	100 non Au rights	Live	13, 14
E27/646	Kalpini	100 non Au rights	Live	14	M25/19	Kalpini-Bulong	100 non Au rights	Live	13, 14
P25/2295	Kalpini	100 non Au rights	Live	14	P25/2307	Kalpini-Bulong	100 non Au rights	Live	13, 14
P25/2296	Kalpini-Bulong	100 non Au rights	Live	13, 14	P25/2308	Kalpini-Bulong	100 non Au rights	Live	13, 14



Ardea Resources Limited Quarterly Report as at 31 March 2023

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
P25/2297	Kalpini-Bulong	100 non Au rights	Live	13, 14	P25/2408	Kalpini-Bulong	100 non Au rights	Live	13, 14
P25/2304	Kalpini-Bulong	100 non Au rights	Live	13, 14	P25/2409	Kalpini-Bulong	100 non Au rights	Live	13, 14
E27/692	Kalpini-Bulong	100 non Au rights	Live	14	L27/102	Kalpini	100	Pending	
P25/2743	Bulong	100	Pending		L31/88	Kalpini	100	Pending	
E27/714	Kalpini	100	Pending		E28/3308	Kalpini	100	Pending	
E27/715	Kalpini	100	Pending		E28/3309	Kalpini	100	Pending	

WA Regional

Tenure	Location	Ardea Interest (%)	Status	Note
M15/1101	WA Regional	Pre-emp Ni-Co Lat	Live	7
M15/1263	WA Regional	Pre-emp Ni-Co Lat	Live	7
M15/1264	WA Regional	Pre-emp Ni-Co Lat	Live	7
M15/1323	WA Regional	Pre-emp Ni-Co Lat	Live	7
M15/1338	WA Regional	Pre-emp Ni-Co Lat	Live	7
M27/510	WA Regional	100 Ni Lat Ore	Live	8
M27/272	Kanowna East	Non-Au Rights	Live	10

Yerilla Hub

Tenure	Location	Ardea Interest (%)	Status	Note
E39/1954	Yerilla-Aubils	100 non Au rights	Live	14
M39/1147	Yerilla-Aubils	100 non Au rights	Pending	14
E31/1092	Yerilla-Boyce Creek	100 non Au rights	Live	14
E31/1169	Yerilla-Boyce Creek	100 non Au rights	Live	14
E31/1208	Yerilla-Boyce Creek	100 non Au rights	Live	14
E31/1213	Yerilla-Boyce Creek	100 non Au rights	Live	14
M31/483	Yerilla-Boyce Creek	100 non Au rights	Live	14
M31/493	Yerilla-Boyce Creek	100 non Au rights	Pending	14
M31/475	Yerilla-Jump Up Dam	100 non Au rights	Live	14
M31/477	Yerilla-Jump Up Dam	100 non Au rights	Live	14
M31/479	Yerilla-Jump Up Dam	100 non Au rights	Live	14

Kookynie Gold-Perrinvale Nickel-Gold

Tenure	Location	Ardea Interest (%)	Status	Note
E40/350	Kookynie	0	Live	11
E40/357	Kookynie	0	Live	11

Tenure	Location	Ardea Interest (%)	Status	Note
E29/1006	Perrinvale	100 non Au rights	Live	14
E29/1078	Perrinvale	100 non Au rights	Live	14

Mt Zephyr Gold-Nickel

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E37/1271	Mt Zephyr	100	Live	12	E39/1706	Mt Zephyr	100	Live	12
E37/1272	Darlot East	100	Live	12	E39/1854	Mt Zephyr	100	Live	12
E37/1273	Darlot East	100	Live	12	E39/1985	Mt Zephyr	100	Live	12
E37/1274	Mt Zephyr	100	Live	12					

Bedonia Nickel-PGE-Gold

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E63/1828	Bedonia	100	Live		E63/1857	Bedonia	100	Live	
E63/1856	Bedonia	100	Live						

Notes:



Ardea Resources Limited Quarterly Report as at 31 March 2023

1.	Britannia Gold Ltd retains precious metal rights.
2.	Impress Ventures Ltd has a 10% equity free-carried interest to a decision to mine.
3.	Norton Gold Fields Limited retains certain Au claw-back rights and royalty receivable.
4.	Ora Banda Mining Ltd holds Au-Ag rights while Ardea retains all non Au-Ag rights.
5.	Acra JV – Northern Star Resources Ltd earn-in with Essential Metals Limited. Former holds gold rights while latter retains nickel sulphide rights. Ardea retains rights to Ni laterite ore.
6.	Black Mountain Gold Limited all rights with exception of Ardea retaining Ni rights.
7.	Ramelius Resources Limited assignee (Maximus Resources Ltd) all rights, Ardea pre-emptive right to Ni-Co laterite.
8.	Paddington Gold Pty Ltd all mineral rights (except nickel sulphide) while Ardea retains rights to nickel laterite ore.
9.	By Sale Agreement between Northern Star (Carosue Dam) Pty Ltd and Kalnorth Gold Mines Ltd, Northern Star (Carosue Dam) Pty Ltd now owns Au rights while Ardea retains non-Au rights.
10.	Northern Star (Kanowna) Limited holds Au rights. Ardea retains non-Au rights.
11.	The Option to purchase the tenements was transferred to Metalicity Limited on 21 November 2020. Ardea retains non Au rights.
12.	The Mt Zephyr/Darlot East tenements were farmed out to Red 5 Limited on 18 November 2020 whereby Red 5 Limited may earn 80% equity interest. Ardea is free carried to Decision to Mine.
13.	Purchase of tenements by Binding Terms Sheet and Alluvial Rights Agreements dated 4 June 2021 between the Seller Steven Lionel Kean and Ardea Resources Limited.
14.	By way of the Demerger Implementation Deed executed between Ardea Resources Limited, Kalgoorlie Gold Mining Limited, Yerilla Nickel Pty Ltd, Kalgoorlie Nickel Pty Ltd and Ardea Exploration Pty Ltd dated 9 September 2021, certain tenements are to be transferred to newly listed Kalgoorlie Gold Mining Limited. For certain other tenements, Ardea Resources Limited or its subsidiaries will continue to hold and retain non-gold rights while Kalgoorlie Gold Mining Limited retain gold rights only.

Interests in Mining Tenements and Petroleum Tenements Acquired or Increased during the March Quarter 2023

Tenure	Location	Nature of Interest	Ardea Interest beginning Quarter (%)	Ardea Interest end Quarter (%)
E27/714	Kalpini	Application	0	100
E27/715	Kalpini	Application	0	100
E28/3308	Kalpini	Application	0	100
E28/3309	Kalpini	Application	0	100
E31/1355	Yerilla-Boyce Creek	Application	0	100
L24/252	Goongarrie	Application	0	100
L24/253	Goongarrie	Application	0	100
L24/255	Goongarrie	Application	0	100
P24/5618	Siberia South	Application	0	100
P24/5619	Siberia South	Application	0	100
P24/5620	Siberia South	Application	0	100
P24/5621	Siberia South	Application	0	100
P24/5622	Siberia South	Application	0	100
P24/5623	Siberia South	Application	0	100
P24/5624	Siberia South	Application	0	100
P24/5625	Siberia South	Application	0	100
P24/5626	Siberia South	Application	0	100