

ASX & Media Release

14 January 2020

ASX Symbol

ARL

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Issued Capital

Fully Paid Ordinary Shares
117,300,435

Directors/Employee
Performance Rights
4,476,000

ABN 30 614 289 342

QUARTERLY OPERATIONS REPORT

For the Quarter ended 31 December 2019

CORPORATE

Cash position at end of Quarter of **\$10.7M**.

Godolphin Resources Limited was admitted to ASX on 16 December and commenced trading on 18 December 2019, completing Ardea's spin-out of its NSW projects with an in-specie share distribution to eligible Ardea shareholders.

Ardea's focus is now on its extensive Western Australian tenement portfolio led by our Kalgoorlie Nickel Project (KNP) which hosts the flag-ship Goongarrie Nickel Cobalt Project (GNCP) and is demonstrably prospective for nickel sulphide and orogenic gold mineralisation.

DEVELOPMENT

Goongarrie Nickel Cobalt Project (GNCP)

- **Strategic Partner** discussions active with battery metal end-users that require long-term supplies of nickel and cobalt.
- **Approvals** significantly advanced with grant of the key GNCP plant site Mining Lease (also containing BTZ gold drill targets).
- **Project Enhancements** planned for 2020 including targeting >1% nickel feed grade and plant optimisation predicated on mineralised neutraliser.
- **Gravity survey completed over Papertalk West palaeo-channel bore-field targets** with drilling planned for Q1, 2020. Multiple process water sources identified with focus to determine highest quality raw water sources.

EXPLORATION

WA Nickel Sulphide and Gold

Field sampling and technical reviews continue to identify high quality targets for nickel-copper-PGM sulphide and gold exploration.

- **Nickel Sulphide** exploration pipeline enhanced with new ground EM/drill targets being defined at Emu Lake, Highway, Black Range and Bulong.
- **Bardoc Tectonic Zone (BTZ)** – detailed geological modelling of the Big Four gold mineralisation completed. New targets defined and drilling planned to commence in Q1, 2020.
- **Mulga Plum** – Exploration drilling commenced in mid-December 2019 and to resume in mid-January 2020, well defined alteration system confirmed.

NSW Gold and Base Metals

Godolphin Resources Limited (ASX: GRL) IPO completed with \$7.5M raised, admitted to ASX on 16 December and commenced trading on 18 December 2019.

Strong investor interest, notably towards the Mount Aubrey epithermal gold resource, with drilling planned for January 2020 and auger soil geochemistry for the Copper Hill East porphyry gold-copper target in the eastern Molong Volcanic Belt along structure, mid-way from the Boda gold-copper discovery and Cadia Ridgeway gold-copper producer.

December Quarter, 2019

1. Goongarrie Nickel Cobalt Project

Overview

Ardea continues to advance its flagship Goongarrie Nickel Cobalt Project (GNCP). Recent progress and ongoing work streams include:

- **Strategic Partner Update** – Ardea continues engaging with potential project partners who are seeking to secure long-term, ethical nickel and cobalt off-take, with Ardea requiring that offtake rights are linked to project funding commitments.
- **Resource Update** – Resource modelling has now shifted to Goongarrie Hill and Highway, respectively 10km north and 30km north of the proposed GNCP plant site. Using Ardea's detailed geometallurgical assay suite, XRD mineralogy and considerable laterite nickel experience, assessment of all of the Kalgoorlie Nickel Project (KNP) satellite projects is being undertaken on a systematic basis, working outwards from the GNCP plant site. This approach is expected to provide Ardea with the optionality to bring on-line additional production capacity to help meet the expected future increases in world nickel demand, driven by growth in traditional uses, electric vehicles and the ongoing expansion of battery energy storage.
- **High Grade Mine Schedule** – Following the success of the results from open pit optimisations and detailed mine scheduling, including pit back-fill schedule and Material Characterisation for the GNCP, this same standardised approach will now be applied to other proximal deposits with the goal of maintaining plant feed grades in excess of 1% nickel in goethite-dominant mineralisation for at least the initial 15 years of operations at a rate of at least 2 million tonnes per annum (2Mtpa).
- **Metallurgical Variability Work** – Work is continuing on finalising an updated SysCAD flow-sheet model which will help define an optimum process that incorporates the benefits of using in-pit saprock serpentine and saprock magnesite as neutralisers and on-site water with the lowest possible salinity.
- **On-site Neutraliser** – Multiple sources of potential neutraliser material for use in neutralising the acidic discharge from the autoclave circuit have been identified that will be recovered during the normal course of open-pit mining. This will largely remove the need for importing limestone to site from a location approximately 450km away.
- **Approvals** – Ardea will not lodge any development applications with the various State authorities only once the scale and footprint of the GNCP is finalised, which is linked to the ongoing Strategic Partner process. In concert with its aim to minimise the GNCP footprint and be accredited as an ethical battery metal source, project enhancements to minimise carbon emissions are a key element of current R&D programs.
- **Tenement Consolidation** – Tenements continue to be acquired at sites adjoining GNCP infrastructure locations. Applications for prospective proximal exploration ground with nickel sulphide and/or orogenic gold targets are also being made when available.
- **Stakeholder Engagement** – Ardea continues to work with the stakeholders within the communities in which it operates and is grateful for the strong Local Government and Community support received.

Results from the above work streams continue to refine key inputs and would underpin a future Definitive Feasibility Study once production scale and type of nickel-cobalt product is agreed with future Strategic Partner requirements.

KNP is a world-significant nickel resource, and if the Electric Vehicle revolution is to proceed as predicted, future production from such nickel sources as the KNP is axiomatic.

Feasibility Programs

During 2020, feasibility work streams will also extend to a project expansion study termed “**WINNER**”, referring to Water, Inpit Neutraliser and Nickel Enhanced Reserve study (WINNER). This initiative will leverage off Ardea’s extensive reserve and resource base additional to its flag-ship GNCP. Other projects within hauling distance, initially the Highway and Siberia North deposits, will be appraised for selective high-grade (>1% nickel) plant feed.

The aim is to optimise plant feed grades to a 2Mtpa Pressure Acid Leach (PAL) plant exceeding 1% nickel for at least the initial 15 years. Options to develop a second 2Mtpa PAL train will also be considered. Ardea is in a unique position of having this resource optionality as it has amongst the largest nickel and cobalt resources in the developed world.

During the quarter the Ardea team continued its feasibility work streams including flow-sheet development, bench-scale metallurgy, resource reporting, resource modelling, pit optimisation, mine planning reporting, ground water assessment and availability of infrastructure sites. These programs influence the planned site layout and footprint, which is a critical parameter for the approvals process.

Resource Modelling

Resource reporting was completed for the Goongarrie South, Big Four and Scotia Dam deposits that cover 19km of strike on the Goon Line nearest the proposed GNCP plant site.

The mineralisation over these deposits is remarkably consistent, occurring as a uniform goethite sheet beneath a thin surface calcrete horizon and barren lateritised alluvial cover and above a carbonated serpentine saprock basement. In the resource modelling, the “Base of Alluvium” and “Top of Saprock” are the key contacts. The goethite material between these two contacts uniformly exceeds 0.5% Ni, which fortuitously is also the mineral resource estimation cut-off grade for the GNCP.

The alluvium is comprised of clay, quartz sand, re-worked haematite clast gravel, and most importantly, an alluvial gravel cemented with nodular dolomite or magnesite containing carbonate which can be used for neutralising the autoclave acidic discharge. All alluvium variants have distinct geochemical signatures, which are the basis for interpreting the Base of Alluvium in resource modelling, as well as defining the Material Type for use in site infrastructure (road and ramp sheeting, dam liners and the like).

The nickel-cobalt laterite mineralisation is invariably associated with the hydrated iron oxide mineral, goethite, which is the preferred plant feed for this style of deposit, due to its rapid leach kinetics with excellent rheology and does not require drying or screening prior to processing (goethite is the predominant ore feed at the successful PAL operations at Goro, Moa Bay and Coral Bay).

The base of the laterite mineralisation is defined by the Top of Saprock. Saprock is an indurated weathered bedrock consisting variously of dolomite-magnesite-serpentine-silica-goethite. The hard competent saprock contrasts sharply with the overlying soft goethite mineralisation, allowing excellent visual grade control in mining.

From Q1, 2020 onwards, resource modelling efforts will move to Goongarrie Hill, located 10km north of the GNCP plant site (see Figure 1) and then move onto Highway, which is only 30km north, with ready access via the sealed Goldfields Highway, and Siberia North located 25km west along gazetted public roads.

High Grade Mine Schedule

The Life of Mine (LOM) plan and updated mining study on the GNCP deposits Goongarrie South, Big Four and Scotia Dam, has been completed and shown that plant feed grades in the first decade of operation can be maintained at in excess of 1% nickel and a resultant low acid consumption (at 262kg/t) throughout the LOM. The extensive zone of >0.5% nickel mineralisation at the GNCP and planned open pits are highlighted in Figure 1.

Following the success of this undertaking, a similar approach will be applied to the Goongarrie Hill, Highway and Siberia North block models, once available, with the aim of maintaining PAL feed grades in excess of 1% nickel for a minimum of 15 years.

On-site neutraliser testwork

The GNCP Pit Optimisation results have confirmed that neutraliser material can be sourced during the normal course of mining and stockpiled for use as autoclave neutraliser. Sourcing of neutraliser onsite is expected to result in improved outcomes for the project by eliminating the need to import either externally sourced neutraliser material and/or commercial grade carbonate product.

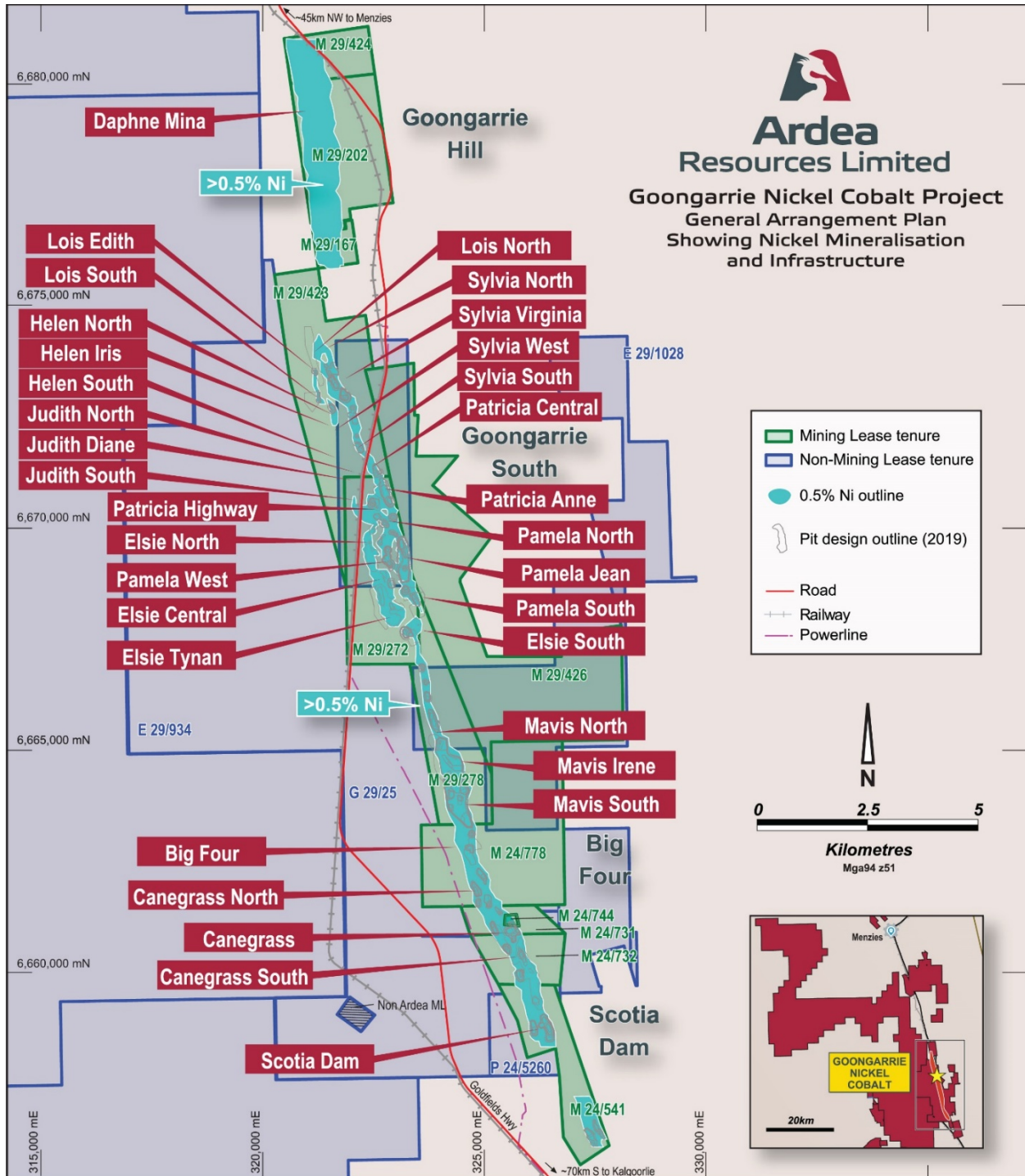


Figure 1: GNCP general arrangement plan highlighting the extensive zones of nickel mineralisation and current open pit mine designs at Goongarrie South, Big Four and Scotia Dam. Projection GDA94 MGA94 Zone 51.

Water source and treatment

To further advance water sources for both the base case and expansion scenarios contemplated as part of the WINNER initiative, a gravity survey has been completed over the Papertalk West palaeo-channel target in mapped granites. This geophysical data has helped confirm the channel trends and axis and been used to plan follow-up water assessment drilling which is planned for Q1, 2020.

During the gravity survey some undocumented historic water exploration bores were located and water samples taken. The results from these samples have indicated favourable Total Dissolved Solids (TDS) values and confirm the area as a potential good quality process water source. Additionally, Ardea's water assay suite indicated the presence of mafic rafts in the granite and anomalous gold-arsenic (Ardea has over-pegged mineral rights within its water exploration areas).

Other optimum process water related work streams include using membrane separation on select pit dewatering streams and for recycling spent process water as a cost-effective alternative to chemical-based water softening. Following highly encouraging membrane separation testwork results indicating that more expensive thermal desalination treatment is unlikely to be required and can be replaced by conventional reverse osmosis technology, a second round of testwork will be completed in the United States, during Q1, 2020.

Flowsheet

A mass balance review is continuing which is optimising the process flowsheet by incorporating the results from metallurgical testwork and includes:

- Replacement of leach residue filters with a conventional CCD circuit;
- Co-disposal of spent tailings with mine waste;
- Replacement of raw water thermal crystallisation with reverse osmosis;
- Replacement of chemical water softening with nanofiltration; and
- Modelling alternative neutralising agents.

All these initiatives are expected to further enhance the GNCP economics.

Environment and Approvals

The GNCP is part of the Kalgoorlie Nickel Project (KNP) (see Figure 2) and is being designed to minimise its environmental footprint. Key attributes include:

- The strip ratio is low at approximately 2:1, minimising project waste generation.
- Waste is either used for construction of integrated waste landforms, progressive back-fill of exhausted pits or rehabilitating completed mine areas.
- Slurry tailings are planned to be deposited in exhausted pits, eliminating the need for above-ground valley-fill Tailings Storage Facilities.
- Early-mined nodular surface laterite waste is particularly well suited as road base for site access roads or rehabilitation materials.
- The ultramafic mine waste from anecdotal observation favours local flora assemblages for revegetation.
- There are no indications of Acid Mine Drainage risk.

Water supply options continue to be investigated with raw water sources identified including aquifers associated with paleo-channels (within granted Ardea mining tenure) and where possible linked to pit de-watering, as well as outlying areas that are also covered by granted Ardea tenure.

The Company continues to progress its environmental knowledge base in preparation for the Definitive Feasibility Study and statutory approval lodgement.

GNCP is favoured by a benign arid environmental setting, which is much easier managed than wet tropical settings such as Indonesia, PNG and the Philippines where submarine tailings disposal or valley-fill tailings dams are most common. The benign environmental attributes favour GNCP as a future "ethical" source of the nickel and cobalt that the Electric Vehicle and Static Storage Battery industries increasingly favour.

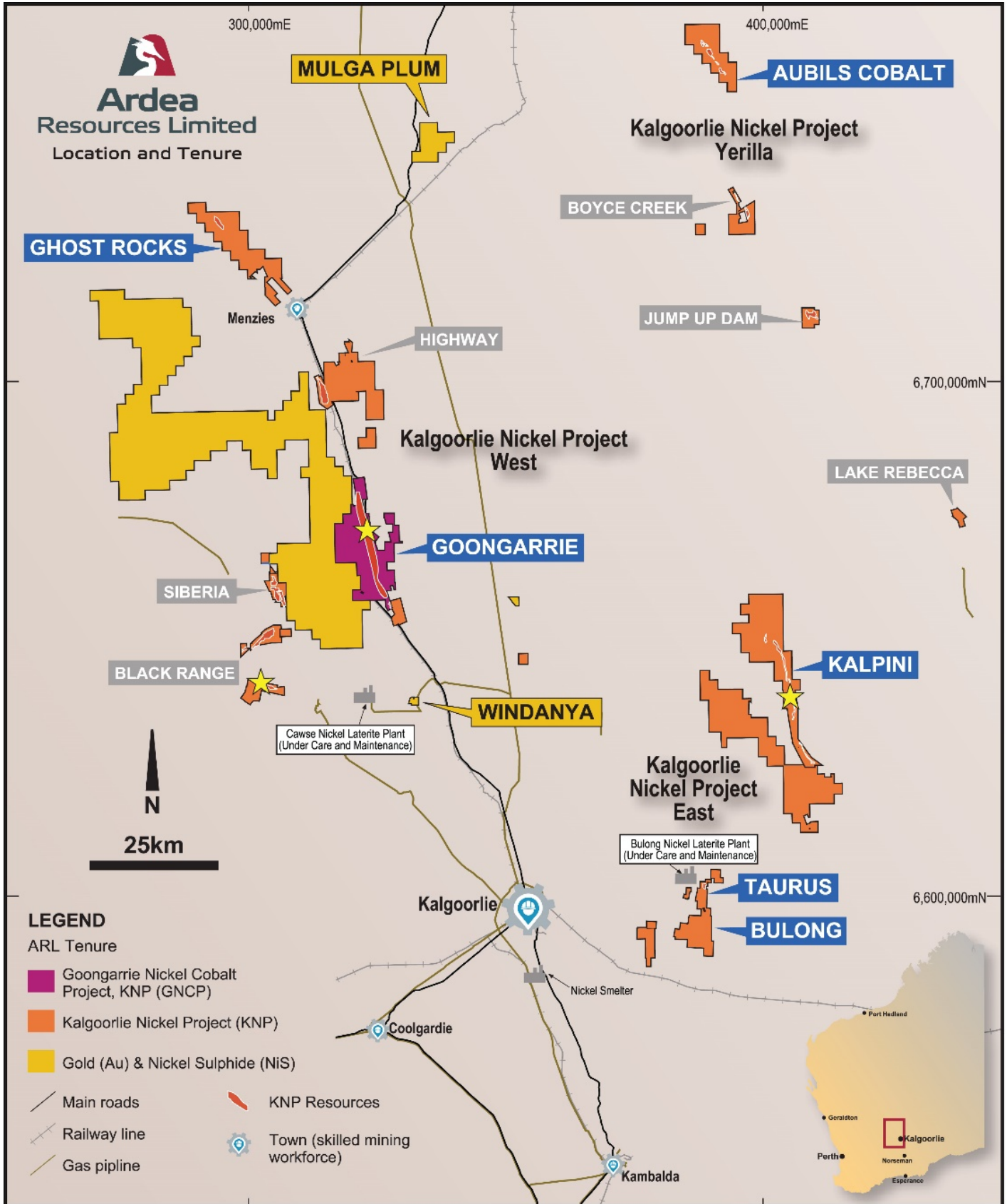


Figure 2: KNP location and infrastructure plan. Projection GDA94 MGA94 Zone 51.

Processing Research and Development

The GNCP continues to have unique attributes identified in Ardea Research and Development (R&D) programs, with research continuing during the December 2019 Quarter:

- **Carbonate for neutralising autoclave discharge** – Bench-scale test-work and follow up screen size analysis and reporting has been completed, indicating onsite neutraliser is a viable proposition.
- **Detailed core logging combined with multi-element geochemistry and XRD mineralogy has identified potential co-products** – the broader KNP is being evaluated for potential mineralised neutraliser resources, with suitable serpentine and carbonate material identified in research at the Highway nickel laterite deposit some 30km north of the GNCP.
- **Multi-element geochemistry** - Has also generated Material Characterisation algorithms that allow mine waste to be variously characterised for environmental use around waste landforms and tailings management.
- **Nickel Sulphide prospectivity indices**, the full KNP data base is being systematically interrogated using the proprietary Ardea nickel sulphide research model. The aim is to identify material within the KNP historic sample pulp inventory as a guide for securing drill sample material for experiments related to controlling autoclave oxidising potential.

Geo-metallurgical/Geological Research and Development

Research has been extended to the Highway deposits, aiming to define Material Types that complement the GNCP flow-sheet. Numerous shallow high-grade nickel zones were defined in the study, which may be suited as a blended feed at GNCP. Experiments are required to evaluate the behaviour of the premium GNCP goethite ore feed when blended with other more serpentine-dominant material types.

Rare Earth Elements

Research was completed on the full Ardea drill data base, defining multiple REE laterite settings. The REE enrichment mirrors Ni-Co enrichment being at the Magnesia Discontinuity within the regolith profile. The R&D programs have focussed on REE recovery (notably cerium, neodymium and praseodymium) in parallel circuit with scandium (using Ion Exchange).

2. WA Nickel Sulphide and Gold projects

The Ardea WA tenure has been expanded further and now covers approximately **4,900km²** and represents a strategic land holding in one of Australia's premier nickel sulphide and gold provinces.

Ardea has several additional project mineralisation styles outside of the GNCP goethite. In addition to the other laterite hosted nickel-cobalt opportunities, Ardea's tenure also host significant "greenfields" nickel sulphide and/or gold mineralisation (see Figure 2 and 4).

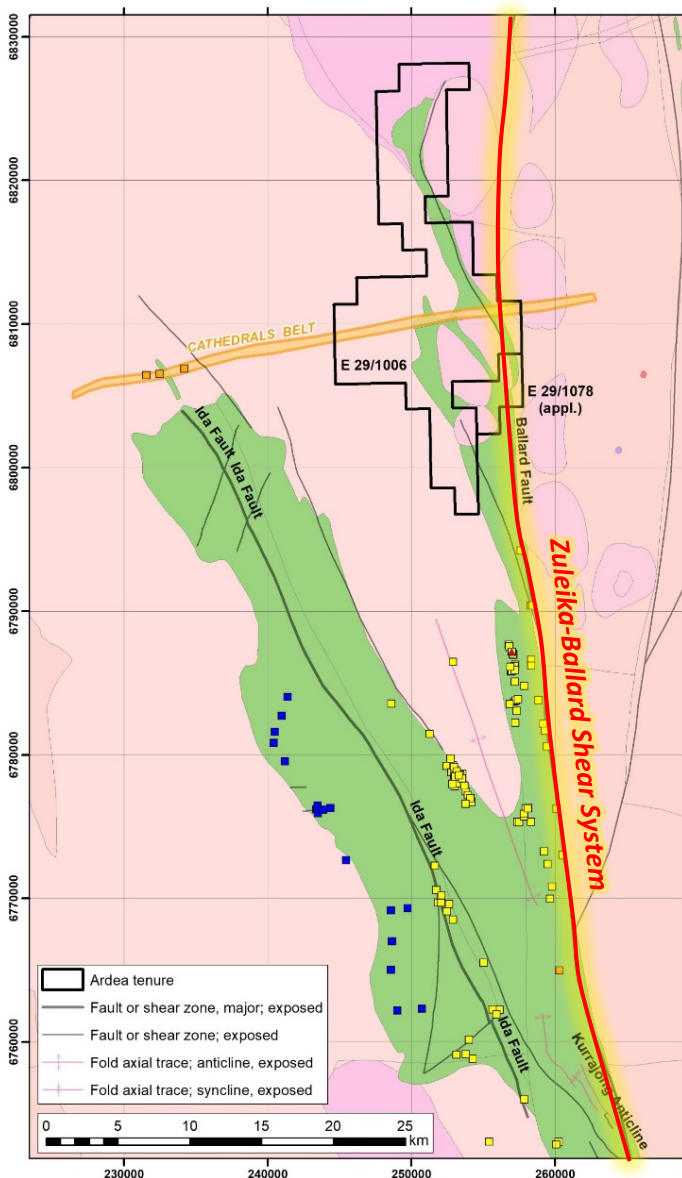
The following summary updates Ardea's main WA projects and work undertaken during the December 2019 Quarter.

Emu Lake nickel prospect

Emu Lake is part of the Kalpini group of tenements and has known nickel sulphide mineralisation exceeding 1% nickel. Previous explorers include Jubilee Mines, Emu Nickel, Xstrata and Pioneer Nickel. The komatiite belt is known to be fertile for nickel sulphide, including extremely high grade (+18% Ni) historic nickel sulphide intercepts (ELD015), albeit thin and discontinuous in previously limited drilling.

Ardea is in the process of assessing historic data from the region and defining and ranking a pipeline of nickel sulphide exploration targets. Detailed exploration programs will be planned and executed over compelling targets during 2020.

Perrinvale nickel sulphide prospect



The Ardea exploration model is based on recent nickel sulphide discoveries immediately west of Perrinvale made by St George Mining. Regional magnetic data highlights that the feature which hosts the St George Mining nickel sulphide discoveries within the Cathedrals Belt, has an east-northeast strike and extends into Perrinvale (see Figure 3). At Perrinvale, this prospective trend is overlain by transported cover, requiring geophysical methods such as moving loop Electro Magnetic (EM) surveys to be employed to facilitate drill hole targeting.

The first MLEM survey was completed over three separate zones at Perrinvale during the September quarter. A final field report was received during the December quarter which recommends follow-up exploration including shallow aircore drilling beneath transported cover to determine basement geology and whether there is a geochemical signature associated with the EM anomalies defined.

Surface EM surveys are also recommended over the areas not covered by the initial trial survey.

Ardea is yet to follow up on the gold potential on the eastern side of the tenement package that could be associated with the north-south trending Zuleika-Ballard Shear system.

Figure 3: Perrinvale project location plan, highlighting interpreted geology and tenement boundaries. The ENE trending Cathedrals Belt is prospective for nickel sulphides and the Zuleika-Ballard Shear system is prospective for orogenic gold. Yellow squares represent known gold occurrences and blue squares iron ore occurrences.

Bardoc Tectonic Zone

The Bardoc Tectonic Zone (BTZ) is a major, gold-fertile, crustal-scale structure that transects the Kalgoorlie Terrane of the Eastern Goldfields. The regional shear/fault system strikes from Paddington in the south to northwest of Ghost Rocks in the north and extends over an approximate 125km strike length, of which some 65km occurs within Ardea tenure (Figure 5). Ardea's GNCP is unique among the world's lateritic nickel-cobalt deposits in that it has developed on ultramafic rocks that are within and are a part of a major, crustal-scale gold-mineralised structure being the BTZ.

The BTZ typically dips moderately to the west, hosting the Paddington, Goongarrie, Comet Vale, Yunndaga, Menzies, Lady Irene and Lady Isobel historic gold mining centres. To the south, the BTZ is contiguous with the Boulder-Lefroy Fault, the host to the Kalgoorlie Golden Mile, New Celebration and St Ives gold mining centres and is considered to be part of a single gold-fertile crustal structural system stretching from St Ives in the south to Ghost Rocks in the north.

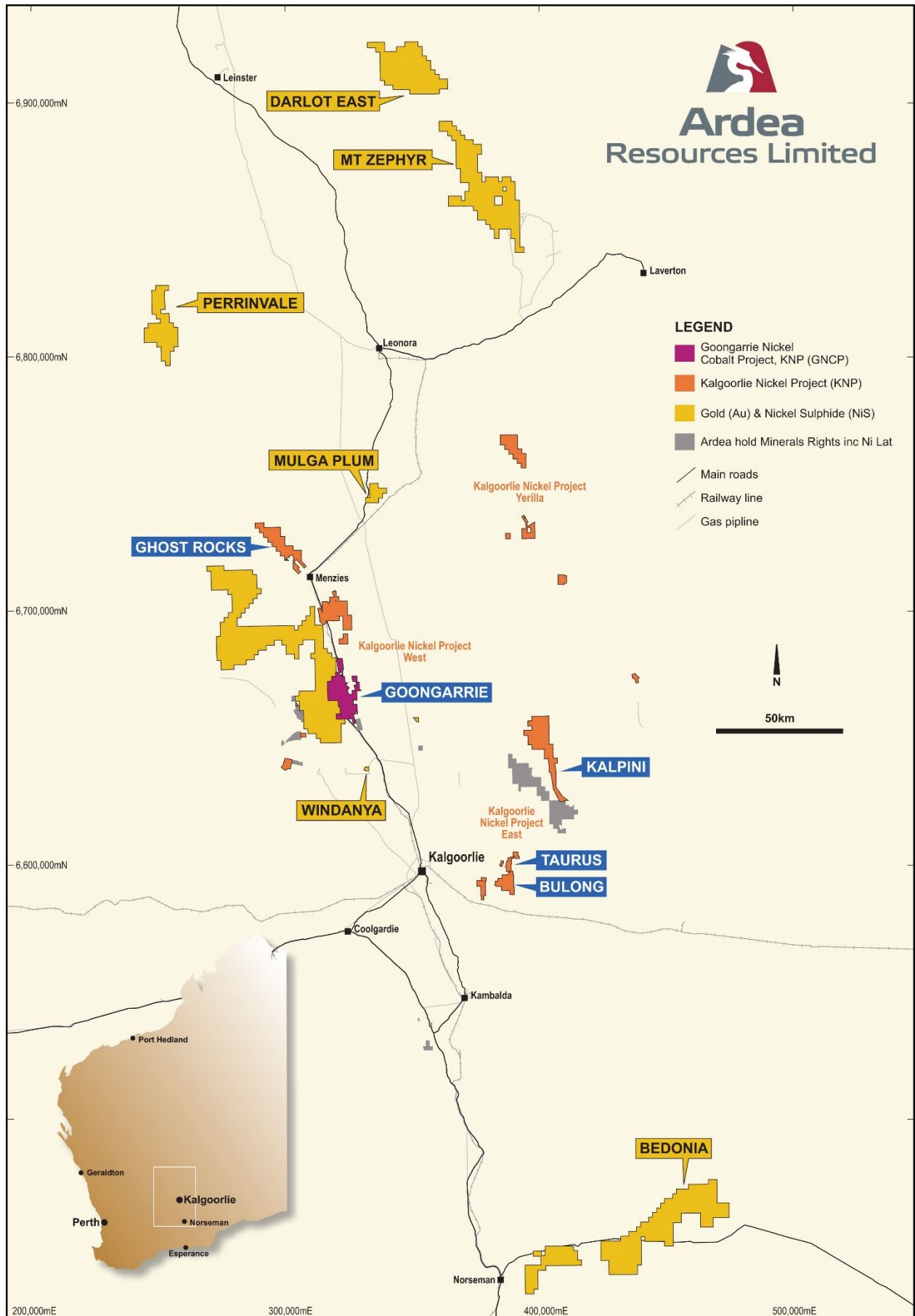


Figure 4: Ardea's Western Australian projects. Projection GDA94 MGA94 Zone 51.

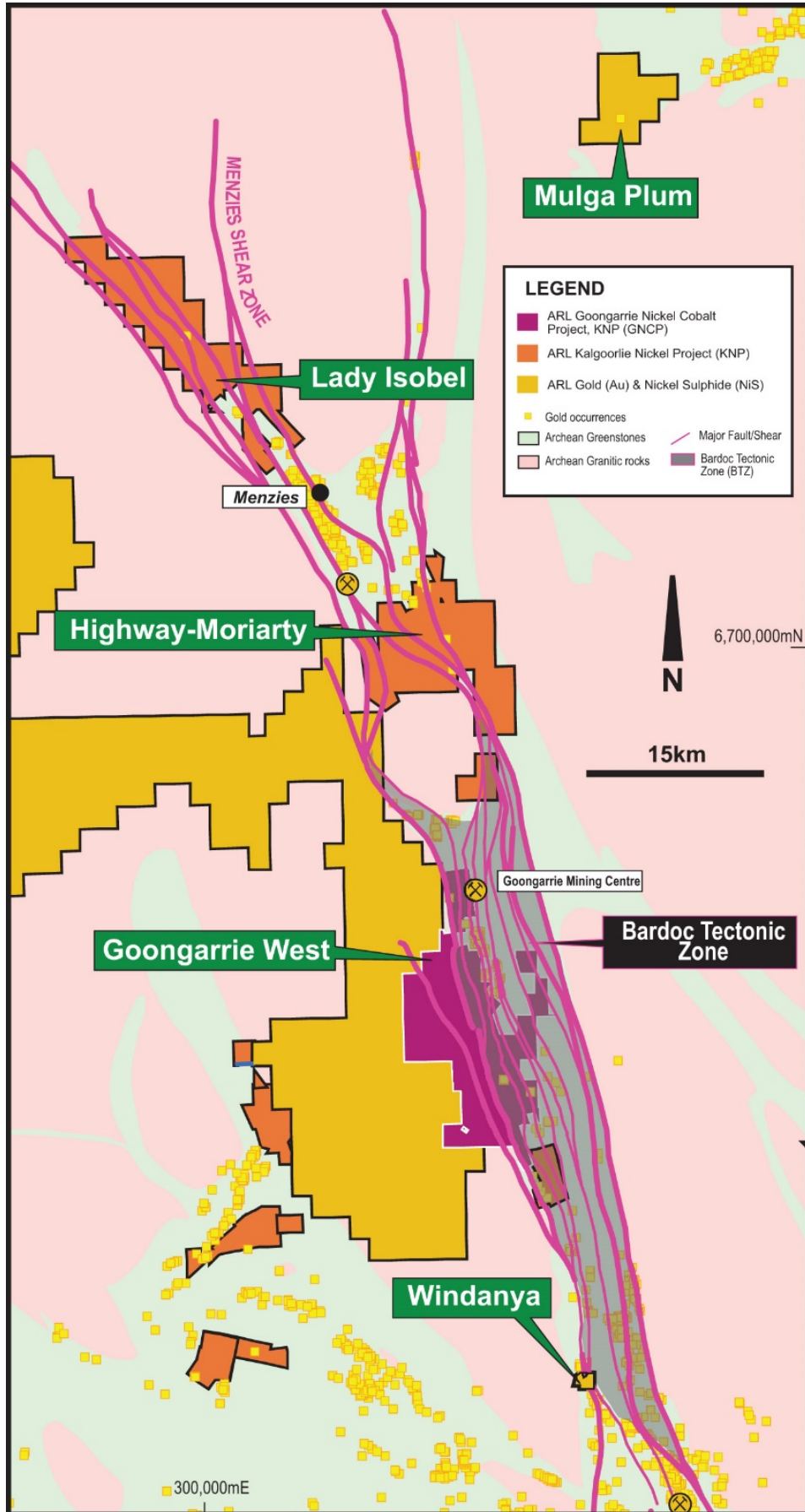


Figure 5: Ardea's BTZ tenure. Projection GDA94 MGA94 Zone 51.

Big Four gold prospect

The Big Four gold prospect is located within the BTZ south of Goongarrie and offers an exceptional gold exploration opportunity for Ardea with high gold grades apparent in shallow geological settings. Limited historic mining around the 1920s to 1930s recovered 571.5t of ore for 10.53kg Au (~339oz Au), at an average grade of 18.4g/t Au. This gold occurrence cropped out at surface so was discovered by prospectors. Most of Ardea's tenure is covered by shallow alluvial cover and/or the development of a laterite profile which obscures the underlying gold potential.

The most recent Ardea drill results from the Big Four area, as well as reassessed historic data, shows that strong, laterally extensive gold anomalism is present beneath the full 20km strike length of the nickel-cobalt orebodies of the GNCP (see Figure 5). The exceptional thickness and grade of the GNCP laterite is interpreted to be directly attributable to deep and intense weathering along BTZ bedrock shear structures, particularly at the eastern contact of the Walter Williams Formation (WWF) laterite host rock with the stratigraphically overlying Siberia Komatiite.

During the Quarter, Ardea geologists have sourced all available historic drill hole data and compiled it into an electronic drill hole database to allow first-pass models of the controls on gold mineralisation to be defined. This knowledge is being applied to the rest of the BTZ controlled by Ardea to help generate additional targets for drill exploration.

At Big Four, follow up drilling is planned to be completed during Q1, 2020. The initial focus will be infill and confirmatory drilling around the historic mine area targeting the dominant gold host rock, porphyry intrusive and surrounding altered ultramafics.

Ghost Rocks gold prospect

Three main prospect areas have been defined at Ghost Rocks, being the Lady Isobel gold prospect, the Twelve Mile base metal prospect and Ghost Rocks Southeast gold and nickel prospect (see Figure 2, 4 and 5). Soil auger drilling, rock chip and geological mapping data have been used to generate drill targets around historic gold workings at Lady Isobel (see Figure 6). A first phase drilling program targeting quartz veins subject to historic mining is planned to be completed in Q1, 2020.



Figure 6: (Left) Historic incline shaft at Lady Isobel gold prospect and (Right) Ardea exploration team fine tuning drill hole locations during a December 2019 site visit.

Windanya gold prospect

Windanya is a historical gold mining centre that was operational in the 1900s (see Figure 2, 4, 5 and 7). It is hosted within the BTZ, 20km south of the GNCP Scotia Dam nickel-cobalt deposit. Historic gold workings are evident on the tenement and extend as a corridor to other workings to the north and south of the Ardea tenement. The trend of the mineralised zone appears to be approximately 330°.

Gold mineralisation appears to be focused on a marker unit designated by the Geological Survey of WA as the Big Dick Basalt and the overlying Mt Pleasant Gabbro. The location of the mineralisation, in the hangingwall of the Siberia Komatiite, is analogous to the New Boddington gold mining centre at Goongarrie, and to parts of the Ardea Zeus prospect at Big Four, which both trend around 330°. Like these prospects, the mineralisation may well be stretched along sheared stratigraphic contacts, but also localised on minor cross-cutting structures.

Compilation and interpretation of historic data continues with records sourced for the Half Mile Reef located near the centre of Ardea's Windanya tenure, indicating that between 1897 and 1906, 23,480 tonnes of ore were mined from an underground operation, producing 12,993 ounces of gold. This indicates a recovered gold grade of 17.2 g/t.



Figure 7: (Left) Historic Half Mile Reef shaft and (Right) quartz rich surface workings at Windanya. December 2019.

Mulga Plum gold and VMS base metal-sulphur prospect

The Mulga Plum gold prospect is a gold and base metal VMS target located 40km NE of Menzies (see Figure 2, 4 and 5) and immediately SW of the historic gold mining town of Kookynie. The exploration model being tested by Ardea is a bulk tonnage granitoid gold system.

A review of historic data along with detailed mapping and rock chip sampling to confirm and extend historic gold anomalism was used to refine targets for RC drill testing. Drilling commenced on 12 December and before a hiatus for the Christmas break, a total of 20 RC holes for 1,148 metres was completed and 640 samples submitted for multi-element analysis.

Logging of RC drill chips has confirmed widespread disseminated sulphides across several alteration zones (propylitic epidote and potassic biotite dominant) and favourable rock types, including granitoid, mafic and felsic porphyry intrusives. Increased sulphides were also noted within the granite and along the base of mafic units. Assay results are required to help determine the significance of these observations as they relate to gold mineralisation.

A total of five holes for 350 meters remain to be drilled for completion of the program, which is scheduled to recommence in mid-January 2020.

Taurus gold prospect

An internal project assessment has been undertaken and several gold and base metal targets defined. These will be ranked against the other projects within Ardea's portfolio and followed up during 2020.

Mt Zephyr gold prospect

The Mt Zephyr-Darlot East metallogenic model for Ardea's 910km² tenement holding is:

- The gold structural target is the shallow east-dipping Celia Lineament and 10km to the east (regionally from north to south localises the Jupiter, Wallaby, Sunrise Dam gold mining centres).
- Syenite-host, Ardea assaying confirms an alkaline igneous association with distinctive Ba-Sr-Ce-La-Nd association, alteration is dominantly pyrite with subordinate sericite, and alteration chemistry dominantly anomalous As-Mo-W.

The Mt Zephyr project continues to be reviewed, with multiple early stage targets defined at the Gale gold, Jones A nickel sulphide and Dunn's Line gold prospects. Ardea needs to consider the best strategy for this quality tenement portfolio with current options including introducing a joint venture partner with a strong balance sheet and track record of exploration success to accelerate this opportunity without impacting Ardea's tight capital structure and cash balance.

Bedonia gold and nickel sulphide

The metallogenic model at Bedonia is nickel sulphide and Platinum Group Metals (PGM) associated with the Proterozoic-aged Jemberlana Dyke, with mineralisation at a historic prospect, Mordicus, as the proof of concept. Field programs by Ardea have identified targets at the Cleanthes and Lila gold prospects (historic drilling up to 2.7g/t Au), located on the Cundeelee Fault at the Albany Fraser Province western boundary.

Soil auger drilling programs have been designed and heritage clearance programs have been sought.

3. NSW Gold and Base Metals projects - Godolphin Resources Limited

On 29 October 2019, Godolphin Resources Limited (ASX:GRL) (**Godolphin**) lodged a prospectus with ASIC (**Godolphin Prospectus**) for its proposed admission to ASX. This was followed by an EGM held on 4 November 2019, where Ardea's Shareholders voted to approve the spinout of the Company's Lachlan Fold Belt NSW projects into Godolphin. The Godolphin IPO offers raised \$7.5 million. After meeting all conditions, Godolphin was admitted to ASX on 16 December and commenced trading on 18 December 2019. Thus, completing Ardea's spin-out of its NSW projects with in-specie (1 for 3.91) share distribution to eligible Ardea shareholders resulting in 30 million Godolphin shares being distributed at nil cost. This is considered an excellent outcome for Ardea shareholders, giving them exposure to a well-funded and focused NSW exploration and development company.

Ardea has received all costs incurred from the IPO and all exploration activities in NSW from 1 June 2019 amounting to \$981,000 in cash with the balance to be received in up to 1 million Godolphin shares. Ardea also retain 15 million options in Godolphin (three year term from listing, \$0.25 exercise price) and wish the Godolphin team every success in exploring their highly prospective tenement portfolio and look forward to seeing compelling targets such as the Mount Aubrey epithermal gold project and Copper Hill East gold-copper porphyry project evolve into mining operations.

4. Corporate

Strategy

With the successful listing of Godolphin on ASX now complete, the corporate priority is focused on Ardea's Western Australian project portfolio. The primary focus is the flag-ship GNCP project enhancements and development opportunities. Ardea will also continue to evaluate and rank its extensive portfolio of nickel sulphide and orogenic gold projects and complete exploration programs aimed at making significant mineral discoveries.

Finance

The Company's cash position is **\$10.7M** at Quarter end.

Issued capital at 31 December 2019 was 117,300,435 shares.

During the Quarter, the balance of 5,008,582 Ardea \$0.25 IPO options that were issued to Heron Resources from Ardea's float, were exercised with receipt of \$1,252,145.50 for Ardea. There were also 1,685,000 Class B Performance Rights that expired on 30 November 2019 without achieving the hurdle rates, and 500,000 New Class F and Class G Performance rights issued to Directors following shareholders approval. Performance Rights on Issue at the end of the quarter were 4,476,000 with varying hurdle rates.

5. Looking Forward

During the March 2020 Quarter, Ardea will focus upon the following programs.

Goongarrie Nickel Cobalt Project

As part of an ongoing strategy to improve the process intensity and to increase project returns through the WINNER initiative, Ardea will continue work on current Pre-Feasibility Study Optimisation work streams, such as studies related to mine scheduling, on-site neutraliser, updating the SysCAD model and flowsheet, and approvals with a focus on defining the best possible ground water source. Once a Strategic Partner is secured, a full Definitive Feasibility Study should commence.

Strategic Partner Process

Advance discussions with interested parties and widen the search in-light of the ongoing commitments to electric vehicles and static storage batteries from international battery producers and vehicle manufacturers.

Resource Upgrades

The focus will move to Goongarrie Hill, Highway, Siberia North and other nickel-cobalt prospects proximal to the GNCP to define the optimum mine plan and maximise PAL nickel feed grades.

GNCP Flowsheet Research and Development

Continue updating the SysCAD model based on expected water sources, quality and in-pit sourced neutraliser. The outputs from the SysCAD model will be used to optimise the flow sheet which will remain focused on minimising the project development foot-print and adhering to Western Australia's world class safety, health, environmental and operating standards. Papertalk West Water, Neutraliser and Gold Exploration Assessment

Ground gravity surveys at Papertalk West have helped map palaeo-channels which may host lower salinity water that could be a potential process water supplementary source for future operations at the GNCP. Follow-up aircore drilling is being planned to assess water quality.

This drilling will also assess potential targets for surface calcrete and palaeo-channel carbonates which could provide an additional source for neutralising the autoclave acidic discharge.

All Papertalk West drill holes will be extended into the basement with samples taken and evaluated using Ardea's extensive geochemical assay suite to determine lithology and mineral bearing potential, with a focus on gold exploration in an under explored region of the Eastern Goldfields where the basement rocks are concealed by alluvial cover.

WA Nickel Sulphide and Gold projects

Nickel sulphide targets will continue to be defined, ranked and appropriate ground EM/drill exploration programs planned. Initial targets have been defined at Emu Lake, Highway and Perrinvale.

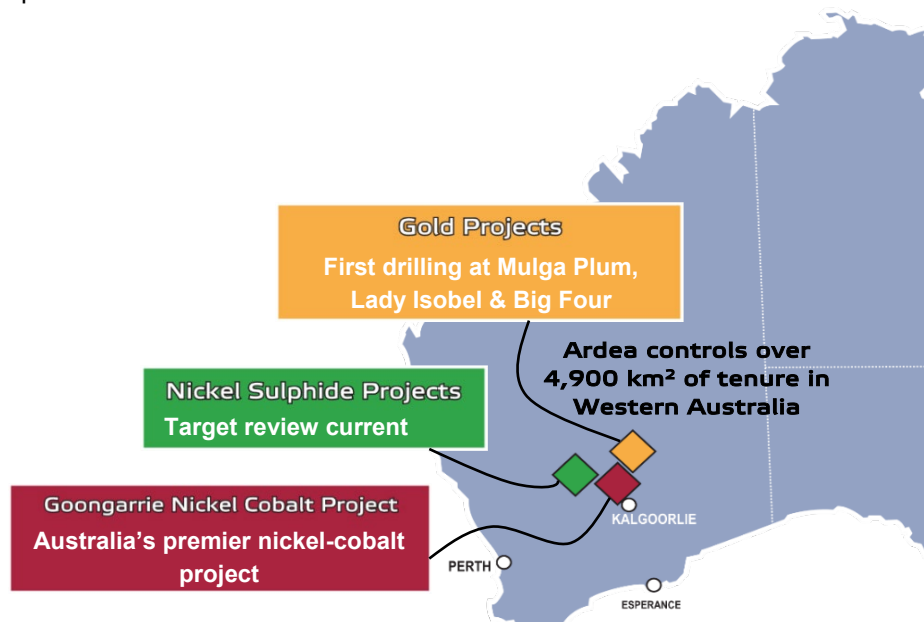
The first phase gold exploration RC drilling program at Mulga Plum will be completed after mid-January 2020 and will then be followed by exploration drilling at Lady Isobel and resource definition drilling at Big Four.

Gold exploration target definition will continue, with a priority on the 65km of Bardoc Tectonic Zone strike extent controlled by Ardea.

About Ardea Resources

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

- Development of the Goongarrie Nickel Cobalt Project, which is part of the Kalgoorlie Nickel Project, a globally significant series of nickel-cobalt deposits which host the largest nickel-cobalt resource in the developed world, coincidentally located as a cover sequence overlying fertile orogenic gold targets; and
- Advanced-stage exploration at WA nickel sulphide and gold targets within the Eastern Goldfields world-class nickel-gold province.



For further information regarding Ardea, please visit www.ardearesources.com.au or contact:

Ardea Resources:

Andrew Penkethman

Chief Executive Officer, Ardea Resources Limited

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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. Kalgoorlie Nickel Project on 21 October 2013 and 31 July 2014, October 2016, 2016 Heron Resources Annual Report and 6 January 2017;
2. KNP Cobalt Zone Study on 7 August 2017, PFS 28 March 2018 and Expansion Study 24 July 2018;
3. Goongarrie Nickel Cobalt Project, Supplementary Prospectuses 10 February 2017, Ardea Annual Report Nov 2017, ASX announcements 28 June 2017, 4 July 2017, 28 August 2017, 14 March 2018, 24 July 2018, 8 October 2018;
4. Ardea Resources Prospectus November 2016, Ardea Supplementary Prospectuses 10 February 2017, ASX announcements 9 March 2017, 16 March 2017, 26 April 2017.

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 Exploration Results and Resource Estimates for the Goongarrie Nickel Cobalt Project 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.

The exploration and industry benchmarking summaries are based on information reviewed by Dr Matthew Painter, who is a Member of the Australian Institute of Geoscientists. Dr Painter 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'. Dr Painter 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.

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 December 2019

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (6 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers		
1.2 Payments for		
(a) exploration & evaluation (if expensed)	-	-
(b) development	(442)	(817)
(c) production	-	-
(d) staff costs	(157)	(329)
(e) administration and corporate costs	(229)	(411)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	51	114
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	(15)
1.8 Other (provide details if material) – Godolphin costs – to be repaid on IPO	(472)	(886)
Godolphin costs repaid during quarter	935	935
1.9 Net cash from / (used in) operating activities	(314)	(1,409)
2. Cash flows from investing activities		
2.1 Payments to acquire:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	(9)	(9)
(d) exploration & evaluation (if capitalised)	(928)	(1,869)
(e) investments	(203)	(203)
(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 (6 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)		
	Bond refunds from Godolphin	146	146
2.6	Net cash from / (used in) investing activities	(994)	(1,935)

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	1,264	2,853
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
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	1,264	2,853

4.	Net increase / (decrease) in cash and cash equivalents for the period	(44)	(491)
4.1	Cash and cash equivalents at beginning of period	10,740	11,187
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(314)	(1,409)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(994)	(1,935)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	1,264	2,853

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	
4.6	Cash and cash equivalents at end of period	10,696	10,696

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	1,807	845
5.2	Call deposits	8,889	9,895
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)	10,696	10,740

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 | 174 |
| 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 - \$151,762
 Payment for Kalgoorlie office to a Director related entity for the quarter - \$18,566
 Payment for HR Services to a Director related entity for the quarter - \$4,000

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.</i>		
<i>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)	(314)
8.2 Capitalised exploration & evaluation (Item 2.1(d))	(928)
8.3 Total relevant outgoings (Item 8.1 + Item 8.2)	(1,242)
8.4 Cash and cash equivalents at quarter end (Item 4.6)	10,696
8.5 Unused finance facilities available at quarter end (Item 7.5)	-
8.6 Total available funding (Item 8.4 + Item 8.5)	10,696
8.7 Estimated quarters of funding available (Item 8.6 divided by Item 8.3)	8.6
8.8	If Item 8.7 is less than 2 quarters, please provide answers to the following questions:
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
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
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

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: 14 January 2019

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.

10.1

Interests in Mining Tenements and Petroleum Tenements Lapsed, Relinquished or Reduced

Ardea WA Tenements

Tenure	Location	Nature of Interest	Ardea Interest beginning Quarter (%)	Ardea Interest end Quarter (%)

Ardea NSW Tenements

Tenure	Location	Nature of Interest	Ardea Interest beginning Quarter (%)	Ardea Interest end Quarter (%)
EL 5583	Lewis Ponds	Live	100	0
EL 8323	Ophir	Live	100	0
EL 8556	Copper Hill East	Live	100	0
EL 8890	Cumnock	Live	100	0
ELA 5794	Mount Bulga	Application	100	0
ELA 5812	Caledonian	Application	100	0
EL 8532	Mount Aubrey	Live	100	0
EL 8538	Yeoval	Live	100	0
ELA 5780	Yallundry/Obley	Live	100	0
EL 8554	Wisemans' Creek	Live	100	0
EL 8555	Calarie	Live	100	0
EL 8580	Calarie Central	Live	100	0
ML 739	Lachlan Mine	Live	100	0
EL 8061	Gundagai South	Live	100	0
EL 8586	Gundagai North	Live	100	0
EL 8889	Gundagai Central	Live	100	0

NB: The tenements in the above table are in the process of being transferred to Ardea's NSW corporate spin out "Godolphin Resources Ltd" (ASX:GRL). Final transfers are pending at the NSW Department of Planning, Industry & Environment.

10.2

Interests in Mining Tenements and Petroleum Tenements Acquired or Increased

Ardea WA Tenements

Tenure	Location	Nature of Interest	Ardea Interest beginning Quarter (%)	Ardea Interest end Quarter (%)
E63/1995	Bedonia	Application	0	100

Ardea NSW Tenements

Tenure	Location	Nature of Interest	Ardea Interest beginning Quarter (%)	Ardea Interest end Quarter (%)

Ardea Resources Limited Tenement Schedule (WA) as at 31 December 2019

Goongarrie Nickel Cobalt Project

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E24/196	Goongarrie	100	Live		M24/541	Goongarrie	100	Live	
E24/209	Goongarrie	100	Live		M24/731	Goongarrie	100	Live	3,6
E24/211	Goongarrie	100	Pending		M24/732	Goongarrie	100	Live	3,6
E29/934	Goongarrie	100	Live		M24/744	Goongarrie	100	Live	6
E29/1028	Goongarrie	100	Live		M24/778	Goongarrie	100	Live	3
E29/1038	Goongarrie	100	Live		M29/167	Goongarrie	100	Live	
E29/1039	Goongarrie	100	Pending		M29/202	Goongarrie	100	Live	
E29/1045	Goongarrie	100	Live		M29/272	Goongarrie	100	Live	
E29/1048	Goongarrie	100	Live		M29/278	Goongarrie	100	Live	
E29/1060	Goongarrie	100	Pending		M29/423	Goongarrie	100	Live	
E29/1061	Goongarrie	100	Pending		M29/424	Goongarrie	100	Live	
E30/500	Goongarrie	100	Live		M29/426	Goongarrie	100	Live	
E30/501	Goongarrie	100	Live		P24/5260	Goongarrie	100	Pending	
E30/502	Goongarrie	100	Live		P24/5328	Goongarrie	100	Pending	
G29/25	Goongarrie	100	Pending		P24/5329	Goongarrie	100	Pending	
L24/239	Goongarrie	100	Live		P29/2265	Goongarrie	100	Live	
L29/134	Goongarrie	100	Live		P24/5265	Goongarrie-Car Boyd	100	Live	
L29/135	Goongarrie	100	Live		P24/5169	Goongarrie-Windanya	100	Live	
L30/67	Goongarrie	100	Live		M24/919	Goongarrie-Scotia	100 Ni Lat	Live	8
L30/68	Goongarrie	100	Live		M24/959	Goongarrie-Scotia	100 Ni Lat	Live	8

GNCPC Expansion
Siberia

Tenure	Location	Ardea Interest (%)	Status	Note
E24/203	Siberia	100 Ni Lat	Live	4
E29/889	Siberia	100 Ni Lat	Live	4
M24/634	Siberia	100 Ni Lat	Live	1,4
M24/660	Siberia	100 Ni Lat	Live	4
M24/663	Siberia	100 Ni Lat	Live	4
M24/664	Siberia	100 Ni Lat	Live	4
M24/665	Siberia	90 Ni Lat	Live	2,4
M24/683	Siberia	100 Ni Lat	Live	4
M24/686	Siberia	100 Ni Lat	Live	4
M24/772	Siberia	100 Ni Lat	Live	4
M24/797	Siberia	100 Ni Lat	Live	4
M24/915	Siberia	100 Ni Lat	Live	4
M24/916	Siberia	100 Ni Lat	Live	4
P24/5235	Siberia	100	Live	
P24/5236	Siberia	100	Live	
P29/2484	Siberia	100	Live	
P29/2485	Siberia	100	Live	

GNCPC Expansion
Black Range

Tenure	Location	Ardea Interest (%)	Status	Note
M24/757	Black Range	100 Ni Lat	Live	4
M24/973	Black Range	100 Ni Lat	Pending	4
P24/4395	Black Range	100 Ni Lat	Live	4
P24/4396	Black Range	100 Ni Lat	Live	4
P24/4400	Black Range	100 Ni Lat	Live	4
P24/4401	Black Range	100 Ni Lat	Live	4
P24/4402	Black Range	100 Ni Lat	Live	4
P24/4403	Black Range	100 Ni Lat	Live	4

GNCPC Expansion
Highway

Tenure	Location	Ardea Interest (%)	Status	Note
E29/1082	Highway	100	Pending	
E29/1083	Highway	100	Pending	
M29/214	Highway	100	Live	
P29/2501	Highway	100	Live	
P29/2559	Highway	100	Pending	
P29/2560	Highway	100	Pending	
P29/2561	Highway	100	Pending	
P29/2562	Highway	100	Pending	

GNCPC Expansion
Ghost Rocks

Tenure	Location	Ardea Interest (%)	Status	Note
E29/941	Ghost Rocks	100	Live	
E29/981	Ghost Rocks	100	Live	
P29/2511	Ghost Rocks	100	Live	
P29/2512	Ghost Rocks	100	Live	
P29/2513	Ghost Rocks	100	Live	
P29/2514	Ghost Rocks	100	Live	
P29/2515	Ghost Rocks	100	Live	
P29/2538	Ghost Rocks	100	Pending	
P29/2539	Ghost Rocks	100	Pending	

Kalpini Hub
GNCPC Expansion

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E27/524	Kalpini	100	Live	11	M25/209	Kalpini-Bulong	100	Live	
E27/606	Kalpini	100	Live		P25/2454	Kalpini-Bulong	100	Live	
E27/607	Kalpini	100	Live		P25/2455	Kalpini-Bulong	100	Live	
E28/1224	Kalpini	100	Live		P25/2456	Kalpini-Bulong	100	Live	
M27/395	Kalpini	100	Live		P25/2457	Kalpini-Bulong	100	Live	
M27/506	Kalpini	100	Live		P25/2458	Kalpini-Bulong	100	Live	
M28/199	Kalpini	100	Live		P25/2459	Kalpini-Bulong	100	Live	
M28/201	Kalpini	100	Live		P25/2460	Kalpini-Bulong	100	Live	
M28/205	Kalpini	100	Live		P25/2461	Kalpini-Bulong	100	Live	
E27/278	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2482	Kalpini-Bulong	100	Live	
E27/438	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2483	Kalpini-Bulong	100	Live	
E27/520	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2484	Kalpini-Bulong	100	Live	
E27/579	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2559	Kalpini-Bulong	100	Live	
E28/1746	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2560	Kalpini-Bulong	100	Live	
E28/2483	Kalpini-Pioneer	100 Ni Lat	Live	7	P25/2561	Kalpini-Bulong	100	Live	
E25/578	Kalpini-Bulong	100	Pending		P25/2609	Kalpini-Bulong	100	Live	
M25/59	Kalpini-Bulong	100	Live		P25/2613	Kalpini-Bulong	100	Live	
M25/134	Kalpini-Bulong	100	Live		P25/2614	Kalpini-Bulong	100	Live	
M25/145	Kalpini-Bulong	100	Live		P25/2615	Kalpini-Bulong	100	Live	
M25/151	Kalpini-Bulong	100	Live		M31/488	Kalpini-Lake Rebecca	100	Pending	
M25/161	Kalpini-Bulong	100	Live		P31/2038	Kalpini-Lake Rebecca	100	Live	
M25/171	Kalpini-Bulong	100	Live		P31/2039	Kalpini-Lake Rebecca	100	Live	
M25/187	Kalpini-Bulong	100	Live		P31/2040	Kalpini-Lake Rebecca	100	Live	

Yerilla Hub
GNCN Expansion

Tenure	Location	Ardea Interest (%)	Status	Note
E39/1954	Yerilla-Aubils	100	Live	6
E31/1092	Yerilla-Boyce Creek	100	Live	5
E31/1169	Yerilla-Boyce Creek	100	Live	
E31/1208	Yerilla-Boyce Creek	100	Pending	
E31/1213	Yerilla-Boyce Creek	100	Pending	
M31/483	Yerilla-Boyce Creek	100	Live	5
M31/475	Yerilla-Jump Up Dam	100	Live	5
M31/477	Yerilla-Jump Up Dam	100	Live	5
M31/479	Yerilla-Jump Up Dam	100	Live	5

WA Regional

Tenure	Location	Ardea Interest (%)	Status	Note
M15/1101	WA Regional	Pre-emp Ni Lat	Live	9
M15/1263	WA Regional	Pre-emp Ni Lat	Live	9
M15/1264	WA Regional	Pre-emp Ni Lat	Live	9
M15/1323	WA Regional	Pre-emp Ni Lat	Live	9
M15/1338	WA Regional	Pre-emp Ni Lat	Live	9
E27/300	WA Regional	Pre-emp Ni Lat	Live	10

Kookynie Gold-Nickel

Tenure	Location	Ardea Interest (%)	Status	Note
E40/350	Kookynie	Option for 100	Live	
E40/357	Kookynie	Option for 100	Live	

Perrinvale Nickel-Gold

Tenure	Location	Ardea Interest (%)	Status	Note
E29/1006	Perrinvale	100	Live	
E29/1078	Perrinvale	100	Pending	

Mt Zephyr Gold-Nickel

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

Bedonia Gold-Nickel

Tenure	Location	Ardea Interest (%)	Status	Note	Tenure	Location	Ardea Interest (%)	Status	Note
E63/1827	Bedonia	100	Live		E63/1929	Bedonia	100	Live	
E63/1828	Bedonia	100	Live		E63/1974	Bedonia	100	Pending	
E63/1856	Bedonia	100	Live		E63/1976	Bedonia	100	Pending	
E63/1857	Bedonia	100	Live		E63/1995	Bedonia	100	Pending	
E63/1928	Bedonia	100	Live						

Donnelly River Graphite

Tenure	Location	Ardea Interest (%)	Status	Note
E70/4804	Donnelly River	100	Pending	

Ardea Resources Limited Tenement Schedule (NSW) as at 31 December 2019
Lachlan Fold Belt - Ardea

Tenure	Location	Ardea Interest (%)	Status	Note
EL 8557	Restdown Lithium	100	Live	

Notes:	
1.	Britannia Gold Ltd retained precious metal rights.
2.	Impress Ventures Ltd has a 10% equity free-carried interest to a decision to mine.
3.	Barrick (PD) Australia Limited retains certain gold claw-back rights and royalty receivable.
4.	Ora Banda Mining Ltd owns gold-silver rights and responsible for tenement management. Ardea owns all non-Au-Ag, in particular Ni-Co-PGM.
5.	Australian Jade Mining Limited right to tenement ownership and semi-precious minerals, Ardea owns all non- semi-precious mineral rights, in particular Ni-Co-PGM-Au.
6.	Australian Jade Mining Limited right to semi-precious minerals (currently in default), Ardea owns all non- semi-precious mineral rights, in particular Ni-Co-PGM-Au, Ardea registered holder.
7.	Acra JV - Northern Star Resources Ltd earn-in with Pioneer Resources Ltd. Latter retains nickel sulphide rights; Ardea owns 100% Ni-Co laterite rights.
8.	Black Mountain Gold Limited owns gold rights and responsible for tenement management, Ardea owns 100% Ni-Co laterite rights.
9.	Ramelius Resources Limited assignee owns all mineral rights, Ardea pre-emptive right to Ni-Co laterite.
10.	Pioneer Resources Limited and assignee owns all mineral rights, Ardea owns Ni-Co laterite.
11.	Kalnorth Gold Ltd owns gold rights while Ardea owns non-gold rights.