

ASX: CHN | OTCQB: CGMLF

Julimar – the right metals at the right time in Western Australia

Critical Minerals & Energy Investment Conference and Exhibition

28 September 2022















Forward looking statements and competent person(s) disclosure



This presentation does not include all available Information on Chalice Mining Limited and should not be used in isolation as a guide to investing in the Company. Any potential investor should also refer to Chalice Mining Limited's Annual Reports, ASX/OTCQB releases, filings on sedar.com and take independent professional advice before considering investing in the Company. For further information about Chalice Mining Limited, visit our website at chalicemining.com

Forward-Looking Statement

This presentation may contain forward-looking information, including forward looking information within the meaning of Canadian securities legislation and forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995 (collectively, forward-looking statements). These forwardlooking statements are made as of the date of this report and Chalice Mining Limited (the Company) does not intend, and does not assume any obligation, to update these forward-looking statements. Forward-looking statements relate to future events or future performance and reflect Company management's expectations or beliefs regarding future events and include, but are not limited to: the Company's strategy and objectives; the timing for completion of scoping studies, the realisation of mineral resource estimates: the likelihood of exploration success: the timing of planned exploration and study activities on the Company's projects; access to sites for planned drilling activities; the success of future potential mining operations; the impact of the discovery on the Julimar Project's capital payback and hydrogen establishing a role in long-term energy strategies. In certain cases, forward-looking statements can be identified by the use of words such as, "affords", "believe", "continue", "could", "estimate", "expected", "future", "interpreted", "likely", "may", "open", "plan" or "planned", "potential", "targets", "will" or variations of such words and phrases or statements that certain actions, events or results may, could, would, might or will be taken, occur or be achieved or the negative of these terms or comparable terminology. By their very nature forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors may include, among others, risks related to actual results of current or planned exploration activities; whether geophysical and geochemical anomalies are related to economic mineralisation or some other feature: whether visually identified mineralisation is confirmed by laboratory assays; obtaining appropriate approvals to undertake exploration activities; results of planned metallurgical test work including results from other zones not tested vet, scaling up to commercial operations; changes in project parameters as plans continue to be refined; changes in exploration programs and budgets based upon the results of exploration, changes in commodity prices; economic conditions; grade or recovery rates; political and social risks, accidents, labour disputes and other risks of the mining industry; delays or difficulty in obtaining governmental approvals, necessary licences, permits or financina to undertake future minina development activities; changes to the regulatory framework within which Chalice operates or may in the future; movements in the share price of investments and the timing and proceeds realised on future disposals of investments, the impact of the COVID 19 pandemic as well as those factors detailed from time to time in the Company's interim and annual financial statements, all of which are filed and available for review on SEDAR at sedar.com, ASX at asx.com.au and OTC Markets at otcmarkets.com. The Company also refers to the "Key Risks" section of its institutional capital raise presentation released to the ASX on 24 May 2022. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forwardlooking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements.

Authorisation

This presentation has been authorised for release by the Disclosure Committee.

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Mineral Resources Reporting Requirements

As an Australian Company with securities quoted on the Australian Securities Exchange (ASX), Chalice is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act 2001 and the ASX. Investors should note that it is a requirement of the ASX listing rules that the reporting of mineral resources in Australia is in accordance with the JORC Code and that Chalice's mineral resource estimates comply with the JORC Code. The requirements of JORC Code differ in certain material respects from the disclosure requirements of United States securities laws. The terms used in this announcement are as defined in the JORC Code. The definitions of these terms differ from the definitions of such terms for purposes of the disclosure requirements in the United States. As a designated reporting issuer in the province of Ontario, Chalice is also subject to certain Canadian disclosure requirements and standards, including the requirements of NI 43-101. The Julimar Project is a material mineral project for the purposes of NI43-101. The confidence categories assigned under the JORC Code were reconciled to the confidence categories in the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards – for Mineral Resources and Mineral Reserves May 2014. As the confidence category definitions are the same, no modifications to the confidence categories were required.

Competent Person and Qualifying Persons Statement

The Information in this presentation that relates to exploration results for the Julimar Project is extracted from the following ASX announcements:

- "High-grade nickel-copper-palladium sulphide intersected at Julimar Project in WA", 23 March 2020
- 'More positive results from ongoing metallurgical testwork at Julimar", 16 February 2021
- "Extensive Ni-Cu Soil Anomalism at Julimar" 9 June 2021
- "Gonneville High-Grade Zones Extended at Depth", 28 September 2021
- "New Mineralised Intrusion Discovered at Julimar", 2 December 2021
- "New results highlight underground potential at Julimar", 2 March 2022
- "Exceptional high-grade extensional results at Julimar", 2 May 2022
- "New Mineralised Zone Intersected at Dampier Target", 7 July 2022
- "Seismic identifies potential 1.6km extension of Gonneville", 6 September 2022

The information in this presentation that relates to Mineral Resources has been extracted from the ASX announcement titled:

• "Updated Gonneville Mineral Resource", 8 July 2022.

The above announcements are available to view on the Company's website at chaliceminina.com

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

















A globally recognised name in exploration – a team with a track record of **finding mines and rewarding shareholders**



High-performance, results driven culture (mine finding + commercial DNA)



Our purpose – to find the metals needed to decarbonise the world



Our aspiration – to create a world class, multi-district green metals province



Julimar











A major new polymetallic critical minerals Project in WA

A remarkable new greenfield discovery in 2020, now a tier-1 scale Resource:

350Mt @ \sim 0.58% NiEq or \sim 1.8g/t PdEq 1 (\sim 70% Indicated / \sim 30% Inferred):





560kt Ni

360kt Cu

54kt Co

contained

equivalent to ~2.0Mt NiEq or ~20Moz PdEq

Including a higher-grade (>0.6% NiEq OP + UG) sulphide component which will grow:

82Mt @ ~1.0% NiEq or ~2.9g/t PdEq, extending from 30m to 700m+ (open)



A **strategic**, **large-scale** Resource with rare mix of critical minerals in sulphide mineralogy



Green metals at Julimar are essential for decarbonisation technologies like batteries, electric vehicles and hydrogen



100% owned by Chalice, and located in one of the world's most attractive mining jurisdictions



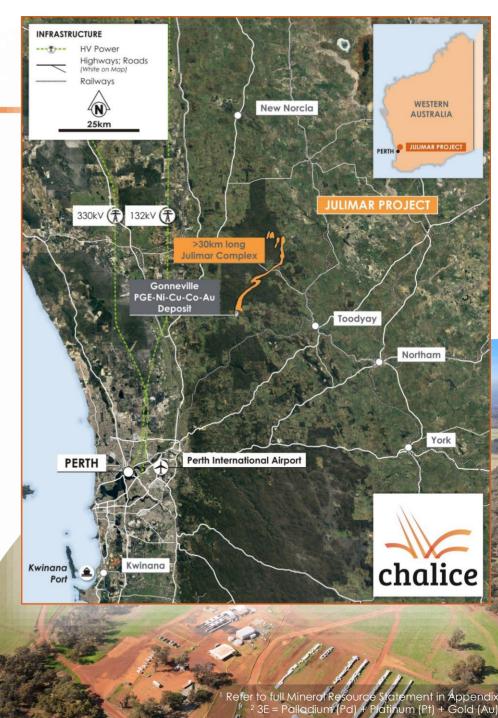
Strategy to evaluate a Gonneville starter mine development while the full extent of the mineral system is defined



Direct access to major highway, rail, power, port infrastructure as well as a large local workforce



Exploration upside – ~2km of new >30km long intrusive Complex drilled-out to date



Julimar is capturing attention as a **strategic asset** for Australia and the western world, given its rare palladium-nickel-cobalt content



Julimar is the **first major PGE discovery in Australia** and one of the few recent large-scale

Ni-Cu-PGE discoveries in the western world



Pd, Pt, Ni and Co are classified as 'critical minerals' by most western governments



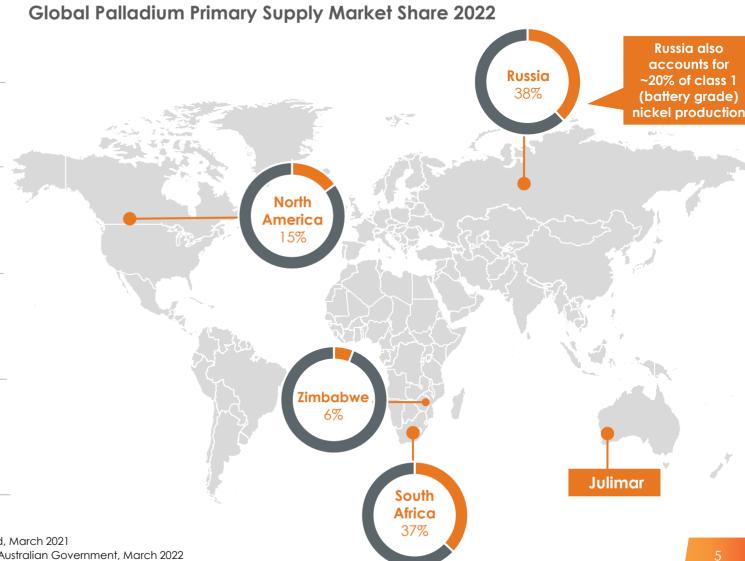
The western world is **extremely reliant** on **Russian Palladium supply** (~40% of global supply)



Strategically located in one of the world's most stable mining jurisdictions and driven by a commitment to sustainable development



The Australian Government has committed >\$1 billion to accelerate strategically significant projects and strengthen internal critical mineral security and supply chains(1)



Battery players need new, large scale and sustainable sources of battery-grade nickel – a unique opportunity for Julimar





Battery-grade nickel consumers forecast to become heavily reliant on supply sources that **do not meet sustainability standards**, i.e. NPI



With **560kt of contained nickel** and growing, Julimar has the potential to become a globally significant source of class 1 nickel, which has a much lower carbon footprint than other sources

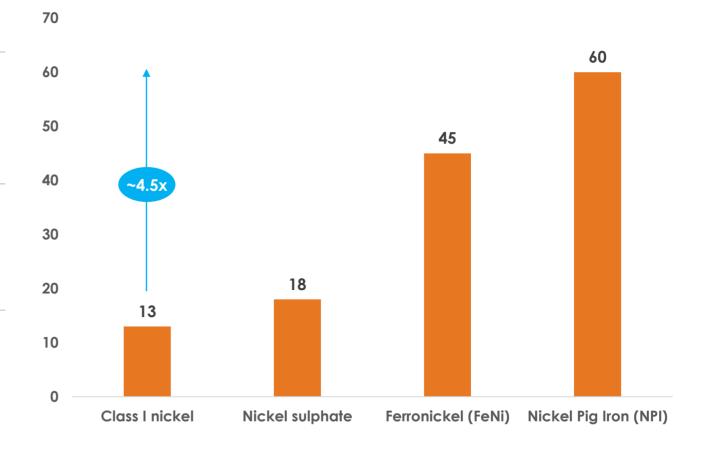


Julimar's proximity to WA's world class power grid and infrastructure make it uniquely positioned to deliver low carbon intensity metals



Class 1 nickel sources are likely to **demand a premium**, driven by the need to comply with emissions targets and to satisfy increasing sensitivity to sustainability standards

Estimated avg carbon intensity of nickel sources (kgCO₂ eq. per kg Ni)



Platinum and Palladium are essential in every stage of the hydrogen value chain, a critical solution to **achieving net-zero carbon emissions**



Production

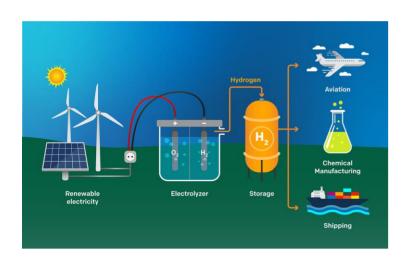
Transport and Storage

Utilisation

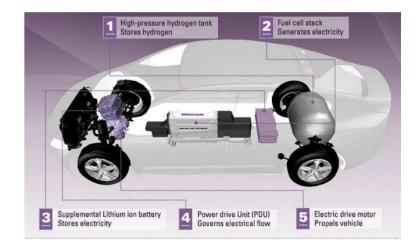
Green hydrogen produced by electrolysis of water using renewable energy (wind, solar, hydro)

Long-term storage and transport of green hydrogen likely to be achieved using liquified ammonia (NH₃) as carrier

Green hydrogen ideal for use in green steel and Fuel Cell Electric Vehicles (FCEVs), likely to be the dominant technology for heavy transport such as trucks, trains and ships







PGEs are essential catalysts in the Proton Exchange Membrane (PEM) Electrolyser

Pd is an essential catalyst in hydrogen-ammonia conversion and purification

PGEs are essential catalysts in most hydrogen fuel cell designs

^{&#}x27;Provision of PGM market intelligence and long-term metal price forecasts' SFA Oxford, March 2021

The rapidly growing and increasingly adopted hydrogen economy has the potential to **underpin long term PGE demand**





Current primary supply of Pt and Pd is ~16Moz p.a. Pd is in prolonged deficit while Pt in surplus



Our view is that with **conservative hydrogen adoption**, demand for Pt and Pd from hydrogen could be as high as ~8Moz p.a.⁽¹⁾

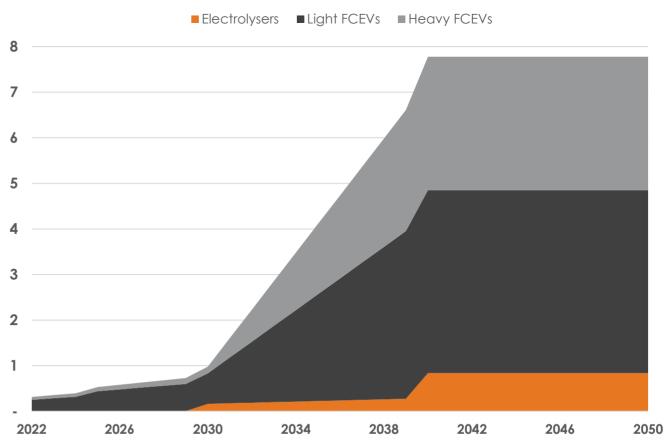


A modest hydrogen adoption scenario includes ~10% share of light vehicle market, ~40% share of heavy vehicle market, and 50-70GW of electrolyser capacity by 2040



Projections do not include PGE usage from hydrogen applications in **shipping**, **aviation**, **industrial or steel manufacturing**

Estimated Annual Pt and Pd Demand from Hydrogen (Moz)

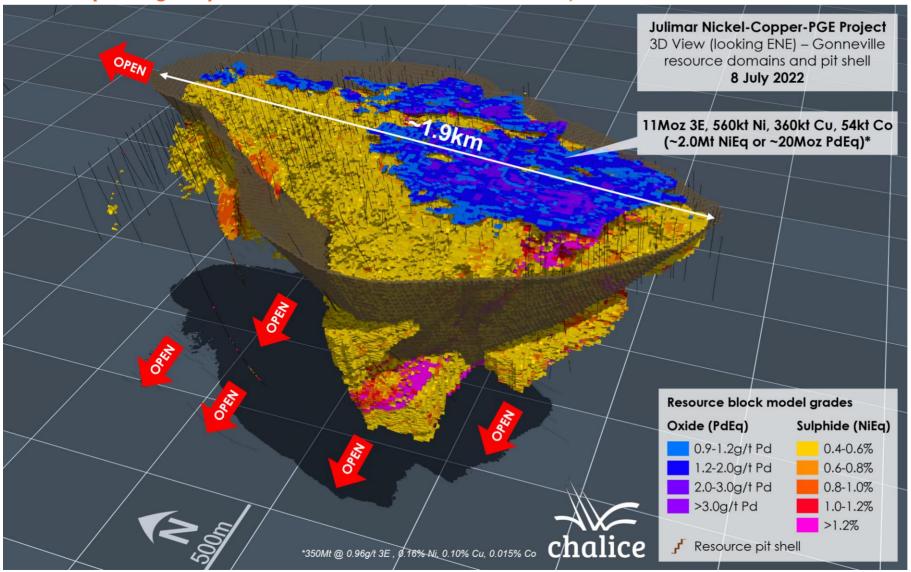


(1) Cautionary statement: The forward-looking statements have been estimated by Chalice using assumptions that have been informed by third party research. These statements are based on an assessment of economic and operating conditions and on various assumptions regarding future events and actions that, as at the date of this presentation, are considered reasonable by Chalice. Refer to "Long Term PGE Demand Forecast" slide in Appendix for additional information regarding the underlying assumptions and calculation methodology, and Slide 2 for a statement regarding the risks involved in forward-looking statements of this nature. Without limiting these risks, such forward-looking statements are predictive in character, may be affected by incorrect assumptions or by known or unknown risks and uncertainties, and may differ materially in due course. Investors are therefore cautioned against attributing undue certainty to forward-looking statements, including those outlined above.

Gonneville is a rare tier-1 scale, near-surface Resource with high-grade optionality and compelling growth potential



3D view (looking ENE) of Gonneville Resource domains and pit shell



Updated Indicated and Inferred Mineral Resource Estimate¹:

- 350Mt @ 0.96g/t Pd+Pt+Au (3E), 0.16% Ni, 0.10% Cu, 0.015% Co (~0.58% NiEq or ~1.8g/t PdEq)
- 11Moz 3E, 560kt Ni, 360kt
 Cu and 54kt Co contained
- Equivalent to ~2.0Mt NiEq or ~20Moz PdEq contained
- Resource is defined to depth of ~700m, open to the north and at depth

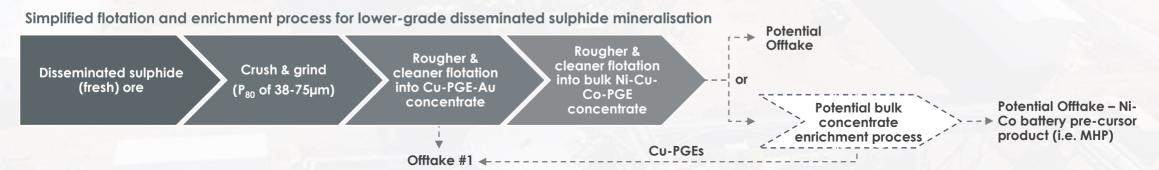
Met testwork for Gonneville has focussed on **two processing options** – selective Cu/Ni flotation or Cu flotation + Ni enrichment



Simplified sequential flotation process for higher-grade sulphide mineralisation

Rougher & Rougher & Crush & grind cleaner cleaner Higher-grade sulphide (P₈₀ of 38flotation into flotation into (fresh) ore Cu-PGE-Au Ni-Co-PGE 75µm) concentrate concentrate Offtake Offtake #2

- Preliminary testwork to date on 15 sulphide composite samples from several geological domains (including higher-grade and lower-grade samples), demonstrates potential to produce **two commercially attractive concentrates** for sale from higher-grade sulphide material, with low levels of potentially deleterious elements
- Variability testwork, mineralogical investigations and flotation optimisation work continues on the nickel-cobalt-PGE concentrate



Metal	Predicted metallurgical recovery range min-avg¹-max (%)
Palladium (~75%/25% Cu/Ni conc)	55-67-90
Platinum (~75%/25% Cu/Ni conc)	55-68-90
Gold (to Cu conc)	30-62-65
Nickel (to Ni conc / MHP)	40-55-80
Copper (to Cu conc)	88-92-95
Cobalt² (to Ni conc / MHP)	40-55-80

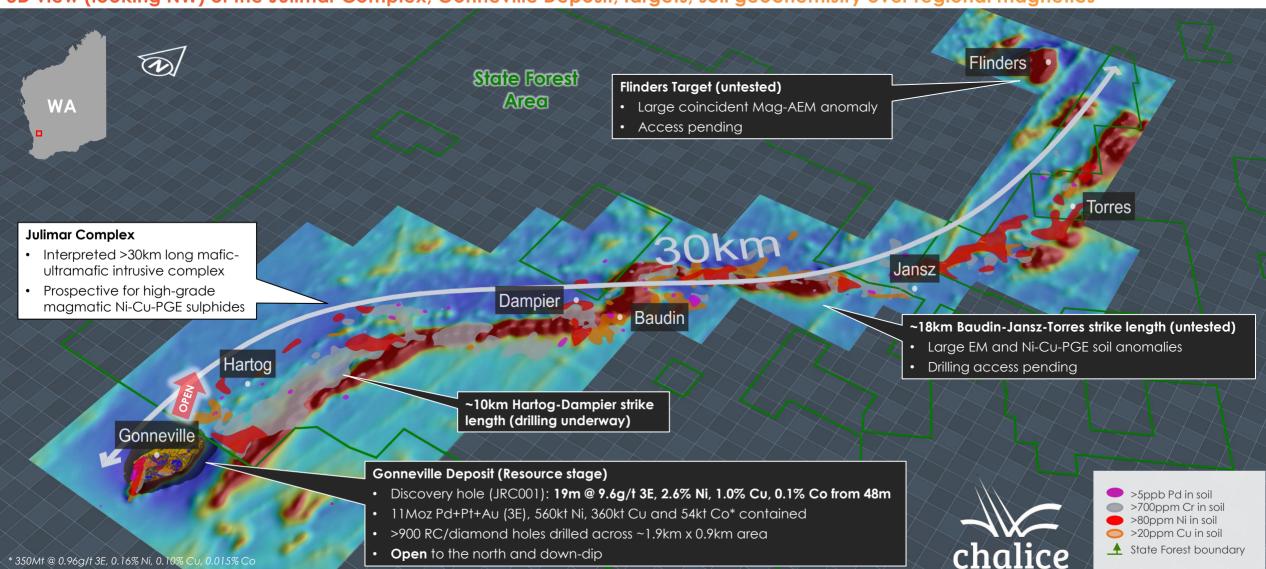
- Copper and PGE recoveries are robust at lower grades, however more work is underway to optimise flotation recovery of nickel and cobalt (and corresponding PGEs which report to the nickel concentrate)
- Several processing alternatives to enrich bulk Ni-Cu-Co-PGE concentrate being investigated in order to maximise recovery and payability, and potentially sell nickel-cobalt intermediate product direct to battery manufacturers
- \$2.9M CRC-P grant from Commonwealth Govt to evaluate these 'midstream' processing options

¹ Average recovery based on average resource grades at >0.6% NiEq cut-off for sulphide (fresh) domain ² Cobalt is associated with nickel and hence recoveries reflect the nickel grade

Gonneville Resource defined over just ~2km of the >30km long Julimar Complex – the upside to the north has the potential to transform the project



3D view (looking NW) of the Julimar Complex, Gonneville Deposit, targets, soil geochemistry over regional magnetics



The Julimar Project has the potential to deliver significant economic benefits and Chalice is committed to strong environmental stewardship









Exploring in the Julimar State Forest under a Conservation Management Plan using small-footprint diamond drill rias to navigate around trees no mechanised clearing of trees or vegetation required



Numerous case studies of successful mining projects in or around State Forest areas

Strong environmental stewardship:





- Development of **Biodiversity Strategy** underway to ensure potential mining in future co-exists with conservation values
- Baseline surface and groundwater studies underway; water studies are a priority focus for Chalice to ensure that water is responsibly managed as a shared resource





Proximity to major communities provides a unique opportunity to build a workforce of local permanent residents (drive in, drive out)



Community Info Sheets and Newsletters developed to deliver information on project activities and environmental practices



~\$0.5M p.a. local procurement spend by Chalice, plus ~\$1.5M p.a. spend by direct contractors in the local shires surrounding the Julimar Project



~22% of current workforce are locally based (Jun-22) and local opportunities growing



Active, open and transparent engagement continues with key stakeholders – trust is key to maintain our social licence

Initial drilling along the Julimar Complex and Gonneville Scoping Study represent significant upcoming milestones



Chalice has **consistently delivered** since the Julimar discovery in early 2020



Julimar discovery and birth of the new West Yilgarn Ni-Cu-PGE Province



Significant expansion of tenure (~8,000km²) and exploration activities (~6-9 rigs)



Maiden Mineral Resource Estimate at Gonneville



Drilling
commences
at greenfield
targets along
>30km
Julimar
Complex



Updated
Mineral
Resource
Estimate at
Gonneville –
~2.0Mt NiEq or
~20Moz PdEq

We are rapidly advancing Gonneville **towards mine development...**



Completion of Scoping Study First step to defining the economic potential of Gonneville



Gonneville
Pre-Feasibility
Study begins –
advancing
towards an
initial mine
development



Gonneville
Mine Proposal –
commence
major
regulatory
approvals
processes

Mar-2020 Nov-2021 Jan-2022 Jul-2022

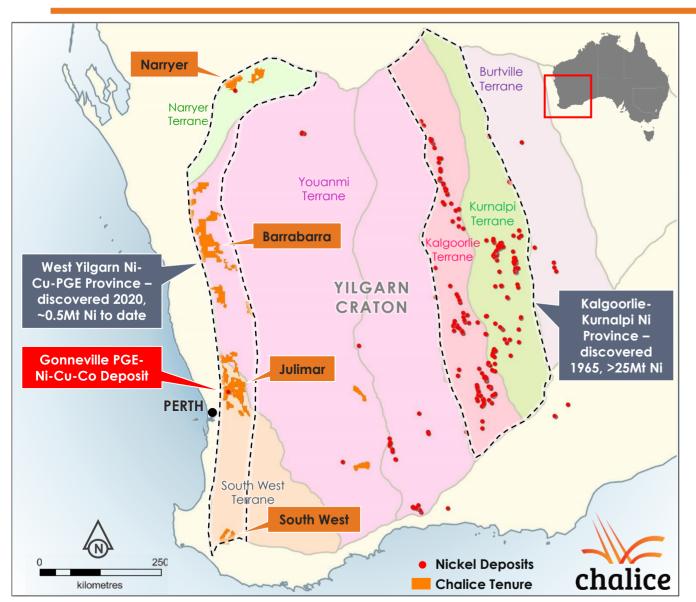
Late 2022

2023+

... while completing first pass exploration on **large unexplored areas** of the new West Yilgarn Province

The Julimar discovery has kick-started the new West Yilgarn Ni-Cu-PGE Province, which could deliver more major critical mineral discoveries





- Many of the 'giant' ortho-magmatic nickel-copper-PGE sulphide deposits such as Norilsk, Jinchuan, Thompson and Voisey's Bay are located proximal to the margin of cratons
- In WA, the eastern Yilgarn (Archean craton) hosts several world-class nickel sulphide deposits with over 25Mt of Ni discovered since 1965
- ~1,200km long western margin of the Yilgarn presents a similar geological setting, but is almost entirely unexplored
- Chalice made the first major ortho-magmatic Ni-Cu-PGE discovery in the region (Julimar), subsequently staking >8,000km²
- Chalice has 'first mover' advantage in this exciting new province – strong potential to deliver more major Ni-Cu-PGE discoveries
- Hundreds of potential host intrusions already identified in our area – Al assisted screening and prioritisation underway
- Rapid, low-cost exploration approach being used EM, soil/auger sampling and shallow reconnaissance drilling
- Potential for highly variable mineralisation styles (Ni:Cu:PGE metal ratios) across the province
- The prize is significant more shallow G1 style massive sulphides with grades c. 3.2% Ni, 1.2% Cu, 10g/t PGE

Source: S&P Global



















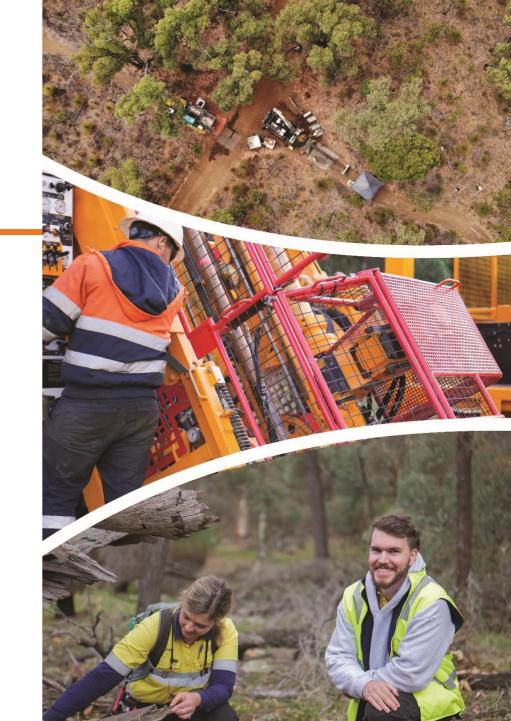
New world class, **strategic**, **'green metals' Resource** in Western Australia – a 'once in a generation' discovery



Significant exploration upside at Julimar and in the new West Yilgarn Ni-Cu-PGE Province – targeting more shallow massive sulphides

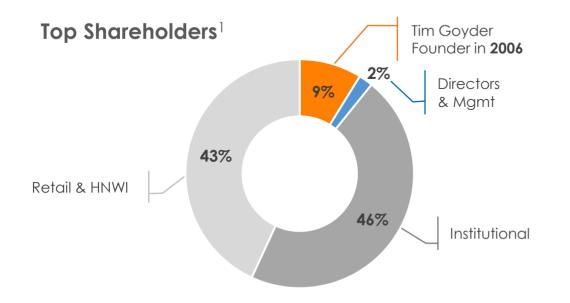


High performance, well funded team with an excellent track record





Corporate Snapshot



Board of Directors	Management
Derek La Ferla (Chairman)	Richard Hacker (CFO)
Alex Dorsch (MD & CEO)	Kevin Frost (GM Discovery & Growth)
Morgan Ball (NED)	Bruce Kendall (GM Exploration)
Garret Dixon (NED)	Soo Carney (GM Env and Comm)
Stephen McIntosh (NED)	Michael Elias (Study Mgr – Julimar)
Linda Kenyon (NED)	Chris MacKinnon (BD and Legal Mgr)
Jo Gaines (NED)	Jamie Armes (Co Sec)

Capital Structure and Financials



ASX:CHN (A\$/share)



Research Analyst Coverage

Bell Potter	David Coates
J.P. Morgan	Al Harvey
Jefferies	Mitch Ryan
Macquarie Bank	Hayden Bairstow

Chalice is actively growing its organisational capability





Derek La Ferla, Chairman

- Highly regarded ASX200 chair and company director with 30+ years experience as a corporate lawyer
- Chair of Poseidon Nickel and formerly Chair of Sandfire Resources



Alex Dorsch, Managing Director and Chief Executive Officer

- Diverse experience in consulting, engineering and corporate advisory in the energy and resources sectors
- Previously a Specialist consultant with McKinsey & Company



Morgan Ball, Non-Exec Director

- Chartered Accountant with 25+ years experience in the resources, logistics and finance industries
- Formerly CFO of Northern Star Resources and Saracen Mineral Holdings



Garret Dixon, Non-Exec Director

- 30+ years experience in resources and mining contracting sectors
- Formerly Executive VP Alcoa & President Bauxite



Stephen McIntosh, Non-Exec Director

- Highly regarded mining executive with 30+ years experience in exploration, major project studies and execution
- Formerly Group Executive and Head of Exploration & Development Projects at Rio Tinto



Linda Kenyon, Non-Exec Director

- Corporate lawyer and senior executive with 30+ years experience
- Formerly Company Secretary and member of Executive Leadership Team at Wesfarmers



Jo Gaines, Non-Exec Director

- Extensive experience in intergovernmental negotiations and stakeholder engagement
- Chair of the Government Employees Superannuation Board (GESB) and a Director of Development WA

Management



Richard Hacker, CFO

- Chartered Accountant with 20+ years experience in junior company financing, corporate and commercial management
- Company CFO since 2006



Dr Kevin Frost, GM Discovery & Growth

 Co-recipient of AMEC's Prospector of the Year Award in 2009 for the discovery of the Spotted Quoll nickel sulphide deposit in WA (Western Areas)



Bruce Kendall, GM Exploration

 Co-recipient of AMEC's Prospector of the Year Award in 2012 for the discovery of the world-class Tropicana gold deposit in WA (AngloGold Ashanti)



Dr Soolim Carney, GM Environment and Community

- Environment, health and safety, indigenous affairs, govt relations and community specialist with 20+ years experience
- Former Regional Environment Manager for Alcoa Australia



Michael Elias, Study Manager – Julimar

- Study Director with 30+ years experience in mining sector
- Specialist in study management, project development and management consulting



Chris MacKinnon, Business Development and Legal Manager

 15 years experience as a corporate lawyer and finance advisor in the resources industry



Jamie Armes, Company Secretary

 Chartered Accountant with 20+ years experience within the accounting profession and administration of public listed companies in the mining and exploration industry

Chalice is building a world-class 'green metals' portfolio in Australia



Platinum and Palladium

Rare metals used in catalytic converters – a pollution control device which is in every petrol, diesel or hybrid vehicle. Palladium reduces areenhouse aas emissions from exhaust streams, including nitrogen oxides which are 300x more potent than CO_2 as a greenhouse ags. These metals also have a future role to play in green hydrogen technologies.

Palladium market in deficit with supply dominated by Russia. Platinum supply dominated by South Africa.



Nickel and Cobalt

Both nickel and cobalt are key materials required in batteries for electric vehicles (EV).

EV-driven nickel demand is forecast to increase 19x by 2040, and a lack of new nickel-sulphide discoveries worldwide in recent years has created a significant forecast supply shortage.



Copper

Used extensively in the green energy industry including solar, hydro, nuclear, and geothermal energy, as well as EV and battery technologies.

The copper market is forecast to remain in deficit until 2026, again with a lack of new large-scale discoveries worldwide.

Source: Johnson Matthey PGM Market Report 2021; IEA "The Role of Critical World Energy Outlook Special Report Minerals in Clean Energy Transitions" March 2022; S&P Global Commodity Quarterly: Copper Q4 2021



These metals are needed to decarbonise the global economy and address climate change

Since our 2006 IPO, we have acquired quality assets, advanced projects quickly and generated exceptional returns



2006 \$7.5M raised in IPO on ASX

to progress Chalice & Hiaainsville **Proiects**

2009

7ara Gold Project in Fritrea acquired for ~A\$7M

2012

7ara Gold Project in Eritrea sold for

~US\$114M (pre-tax)

A\$0.10ps / ~A\$25M capital return to shareholders

2016

Cameron Gold Project in Ontario sold for ~A\$25M

(pre-tax)

2018

Staked Julimar Nickel-Copper-PGE Project in Western Australia

2020 **Major PGE-**NI-Cu-Co-Au discovery at

Iulimar Proiect

2021

Gold spinout into Falcon Metals Ltd (ASX: FAL)

2022

\$100M

raised to

progress

Iulimar

studies

2006 2008 2010

2012

2014

Cameron Gold

2013

Project in

acquired for

Ontario

~A\$8M

2016

2018

2020

2022

2007

Chalice & Higginsville Proiects sold for ~A\$12M (pre-tax)

2009-2011

~A\$43M raised to progress Zara to DFS 2017

Acquired East Cadillac Gold Project in Quebec and staked Pyramid Hill Gold Project in Victoria

2019

2018

Quebec Gold Proiects sold to O3 Minina

2020

A\$0.04ps / ~A\$10.6M 👃 Julimar capital return

to shareholders

2021 Tier-1

maiden Gonneville Resource

~\$145M raised to progress

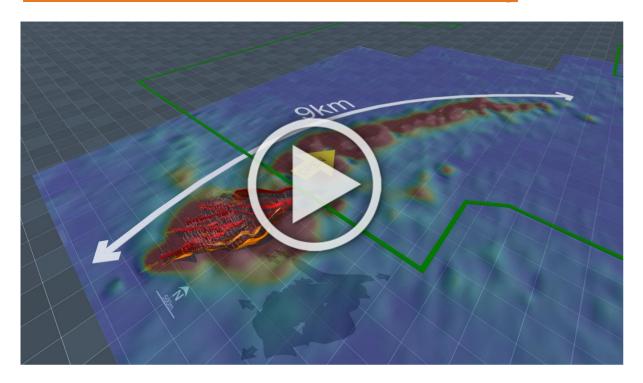
Upgraded Gonneville Resource

2022

Interactive 3D Model & Video: Take a tour of our globally significant Julimar Ni-Cu-PGE Project in Western Australia



Click here to explore Julimar in 3D: https://inventum3d.com/c/chalicemining



Click here to watch the Julimar Project Video: https://youtu.be/zaparMvbb4g





Gonneville Mineral Resource Estimate (JORC Code 2012), 8 July 2022

Domain	Cut-off Grade	Category	Mass	Grade						Contained Metal									
			(Mt)	Pd (g/t)	Pt (g/t)	Au (g/t)	Ni (%)	Cu (%)	Co (%)	NiEq (%)	PdEq (g/t)	Pd (Moz)	Pt (Moz)	Au (Moz)	Ni (kt)	Cu (kt)	Co (kt)	NiEq (kt)	PdEq (Moz)
		Indicated	8.6	1.9	-	0.06	-	-	-	-	1.9	0.52	-	0.02	-	-	-	-	0.54
Oxide	0.9g/t Pd	Inferred	0.4	1.9	-	0.13	-	-	-	-	2.0	0.03	-	0.00	-	-	-	-	0.03
		Subtotal	9.1	1.9	-	0.06	-	-	-	-	1.9	0.55	-	0.02	-	-	-	-	0.57
		Indicated	14	0.80	0.19	0.03	0.17	0.12	0.024	0.65	2.0	0.37	0.09	0.01	24	17	3	93	0.90
Sulphide (Transitional)	0.4% NiEq	Inferred	1.1	0.64	0.17	0.03	0.14	0.11	0.016	0.55	1.6	0.02	0.01	0	2	1	0	6	0.06
(=	Subtotal	15	0.79	0.19	0.03	0.16	0.12	0.023	0.65	1.9	0.39	0.09	0.01	25	18	4	99	0.96
		Indicated	220	0.73	0.16	0.03	0.16	0.10	0.016	0.59	1.8	5.1	1.1	0.20	360	230	34	1,300	12
Sulphide (Fresh)	0.4% NiEq	Inferred	110	0.71	0.15	0.03	0.16	0.11	0.015	0.58	1.7	2.4	0.52	0.10	170	110	16	610	5.9
	1 1129	Subtotal	320	0.72	0.16	0.03	0.16	0.11	0.015	0.58	1.8	7.5	1.7	0.30	530	340	50	1,900	18
		Indicated	0.03	1.7	0.33	0.08	0.16	0.15	0.016	0.99	3.0	0	0	0	0.1	0.1	0.0	0.3	0
Underground	MSO	Inferred	2.9	1.8	0.40	0.06	0.27	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.0	0.6	35	0.34
		Subtotal	2.9	1.8	0.40	0.06	0.26	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.1	0.6	35	0.34
		Indicated	240	0.78	0.16	0.03	0.16	0.10	0.015	0.57	1.8	6.0	1.2	0.22	380	240	37	1,400	14
All		Inferred	110	0.74	0.16	0.03	0.16	0.11	0.015	0.59	1.8	2.6	0.57	0.11	180	120	1 <i>7</i>	650	6.3
		Total	350	0.77	0.16	0.03	0.16	0.10	0.015	0.58	1.8	8.6	1.8	0.33	560	360	54	2,000	20

Note some numerical differences may occur due to rounding to 2 significant figures.

PdEq oxide (Palladium Equivalent g/t) = Pd (g/t) + 1.27x Au (g/t)

NiEq sulphide (Nickel Equivalent %) = Ni (%) + 0.33x Pd(g/t) + 0.24x Pt(g/t) + 0.29x Au(g/t) + 0.78x Cu(%) + 3.41x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

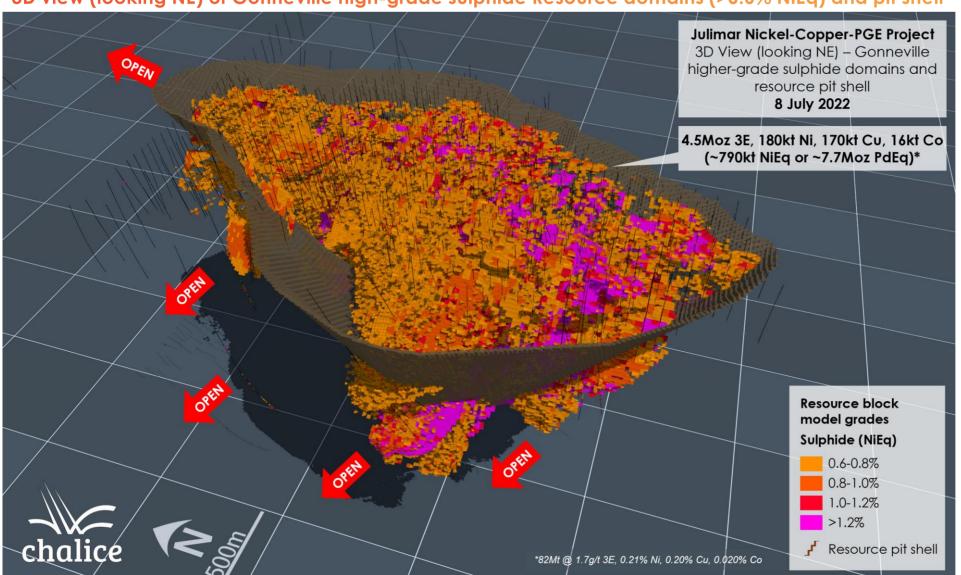
MSO optimisation defined reasonable shapes that could be extracted by underground mining methods.

Includes drill holes drilled up to and including 18 March 2022.

The Resource includes a significant **higher-grade sulphide** component, starting from a depth of ~30m



3D view (looking NE) of Gonneville high-grade sulphide Resource domains (>0.6% NiEq) and pit shell



Higher-grade sulphide component of Resource¹:

- 82Mt @ 1.7g/t 3E, 0.21%
 Ni, 0.20% Cu, 0.020% Co (~1.0% NiEq or ~2.9g/t PdEq);
- 4.5Moz 3E, 180kt Ni, 170kt Cu, 16kt Co (~790kt NiEq or ~7.7Moz PdEq) contained
- This higher-grade component affords the project significant optionality in development and could potentially materially enhance project economics in the initial years of operation

¹ Refer to full Mineral Resource Statement in Appendix

Higher-grade sulphide component of Gonneville Resource (in pit and underground), 8 July 2022



Domain	Cut-off Grade	Category	Mass	Grade								Contained Metal							
			(Mŧ)	Pd (g/t)	Pt (g/t)	Au (g/t)	Ni (%)	Cu (%)	Co (%)	NiEq (%)	PdEq (g/t)	Pd (Moz)	Pt (Moz)	Au (Moz)	Ni (kt)	Cu (kt)	Co (kt)	NiEq (kt)	PdEq (Moz)
High-grade		Indicated	4.8	1.3	0.31	0.04	0.20	0.18	0.038	0.99	3.0	0.20	0.05	0.01	10	9	2	48	0.46
Sulphide	0.6% NiEq	Inferred	0.2	1.1	0.26	0.06	0.18	0.18	0.019	0.82	2.4	0.01	0.00	0.00	0	0	0	2	0.02
(Transitional)	9	Subtotal	5.1	1.3	0.30	0.05	0.20	0.18	0.037	0.98	3.0	0.21	0.05	0.01	10	9	2	50	0.48
		Indicated	52	1.3	0.29	0.06	0.21	0.19	0.019	0.94	2.8	2.2	0.49	0.11	110	99	10	490	4.8
High-grade Sulphide (Fresh)	0.6% NiEq	Inferred	22	1.3	0.29	0.08	0.21	0.23	0.018	0.98	2.9	0.94	0.20	0.05	46	52	4	220	2.1
,	'	Subtotal	74	1.3	0.29	0.07	0.21	0.20	0.019	0.95	2.9	3.1	0.69	0.16	160	150	14	710	6.9
		Indicated	0.03	1.7	0.33	0.08	0.16	0.15	0.016	0.99	3.0	0	0	0	0.1	0.1	0.0	0.3	0
Underground	MSO	Inferred	2.9	1.8	0.40	0.06	0.27	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.0	0.6	35	0.34
		Subtotal	2.9	1.8	0.40	0.06	0.26	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.1	0.6	35	0.34
		Indicated	57	1.3	0.29	0.06	0.21	0.19	0.020	0.95	2.9	2.4	0.54	0.11	120	110	12	540	5.2
All		Inferred	25	1.4	0.30	0.07	0.21	0.23	0.018	1.00	3.0	1.1	0.24	0.06	54	58	5	250	2.5
		Total	82	1.3	0.29	0.07	0.21	0.20	0.020	0.97	2.9	3.5	0.78	0.17	180	170	16	790	7.7

Note some numerical differences may occur due to rounding to 2 significant figures.

This higher-grade component is contained within the reported global Mineral Resource.

NiEq sulphide (Nickel Equivalent %) = Ni (%) + 0.33x Pd(g/t) + 0.24x Pt(g/t) + 0.29x Au(g/t) + 0.78x Cu(%) + 3.41x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

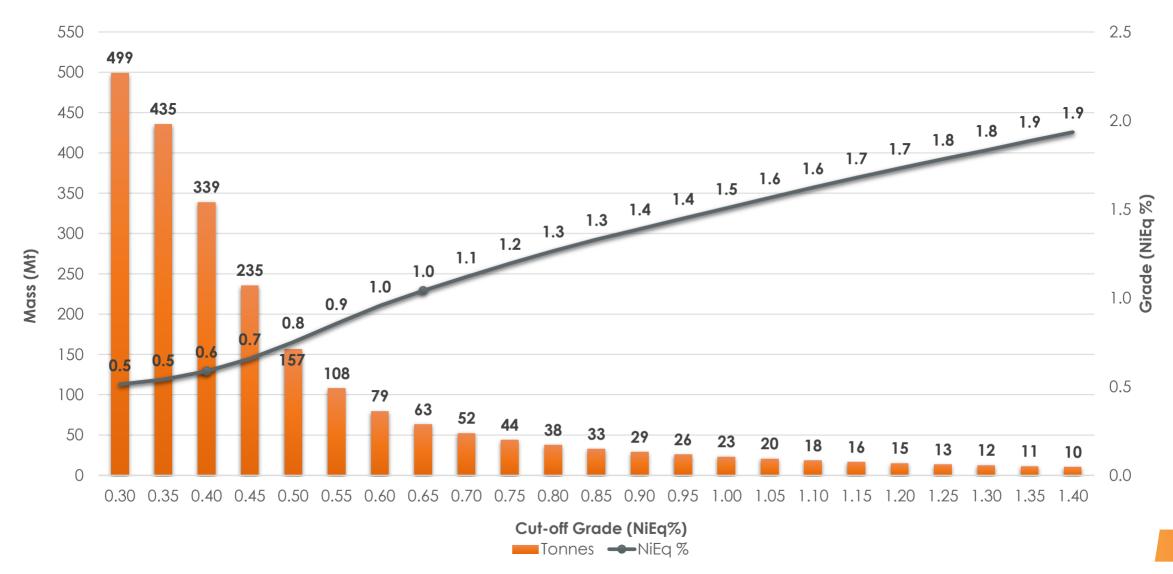
MSO optimisation defined reasonable shapes that could be extracted by underground mining methods.

Includes drill holes drilled up to and including 18 March 2022.

Flat grade-tonnage curve highlights the significant higher-grade component – providing the project with **development optionality**



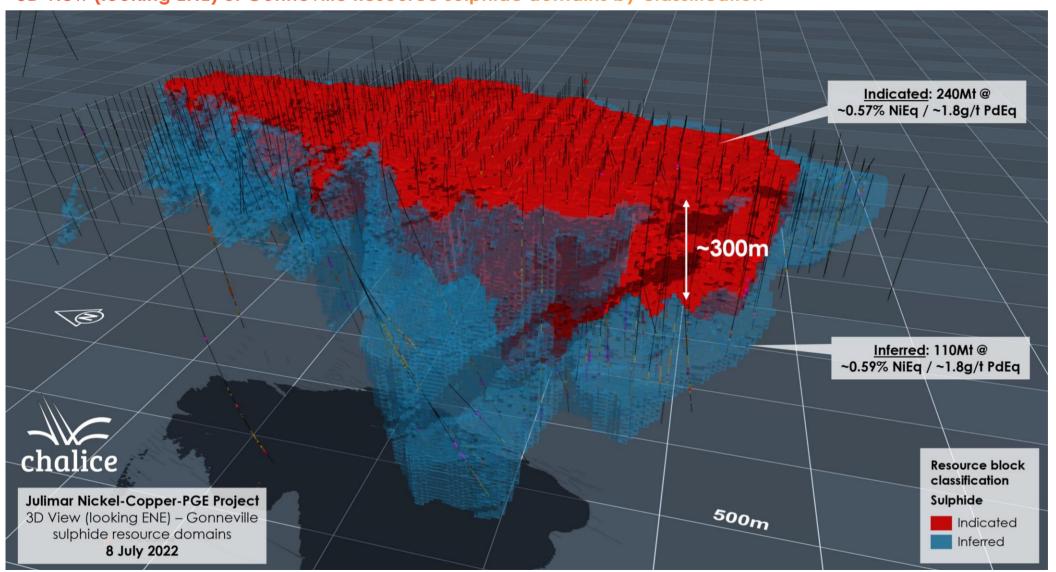
Nickel Equivalent Grade-Tonnage Curve in-pit (on NiEq cut-off grade basis)



The Indicated portion of the Resource has been increased significantly to ~70%, with 90% in Indicated category above depth of 250m



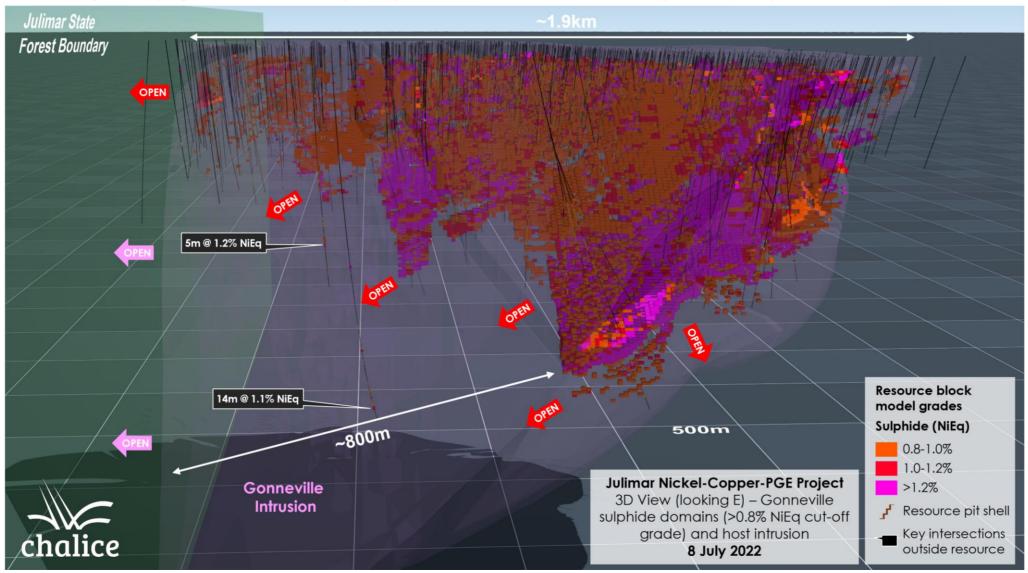
3D view (looking ENE) of Gonneville Resource sulphide domains by classification



The Deposit remains open along strike to the north and down-dip, with ongoing drilling demonstrating potential for material growth



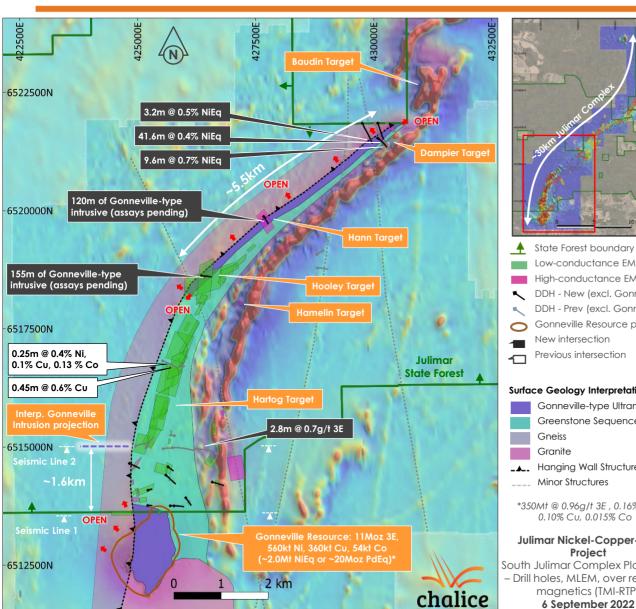
3D view (looking E) of Gonneville higher-grade sulphide block model (>0.8% NiEq) and host intrusion



- The ~550m thick Gonneville Intrusion strikes over ~1.9km and is open to the north
- ~800m of highgrade plunge extent on farmland is yet to be tested
- Step-out drilling is continuing with 2 rigs on wide-spacing, to determine overall scale of the system

Significant exploration underway immediately north of the Gonneville Deposit, extending over ~10km of the Julimar Complex strike length





- State Forest boundary Low-conductance EM plate High-conductance EM plate DDH - New (excl. Gonneville)
- DDH Prev (excl. Gonneville) Gonneville Resource pit crest
- Previous intersection

Surface Geology Interpretation

- Gonneville-type Ultramafic Greenstone Sequence
- Hanaina Wall Structure Minor Structures

*350Mt @ 0.96q/t 3E, 0.16% Ni, 0.10% Cu. 0.015% Co

Julimar Nickel-Copper-PGE Project

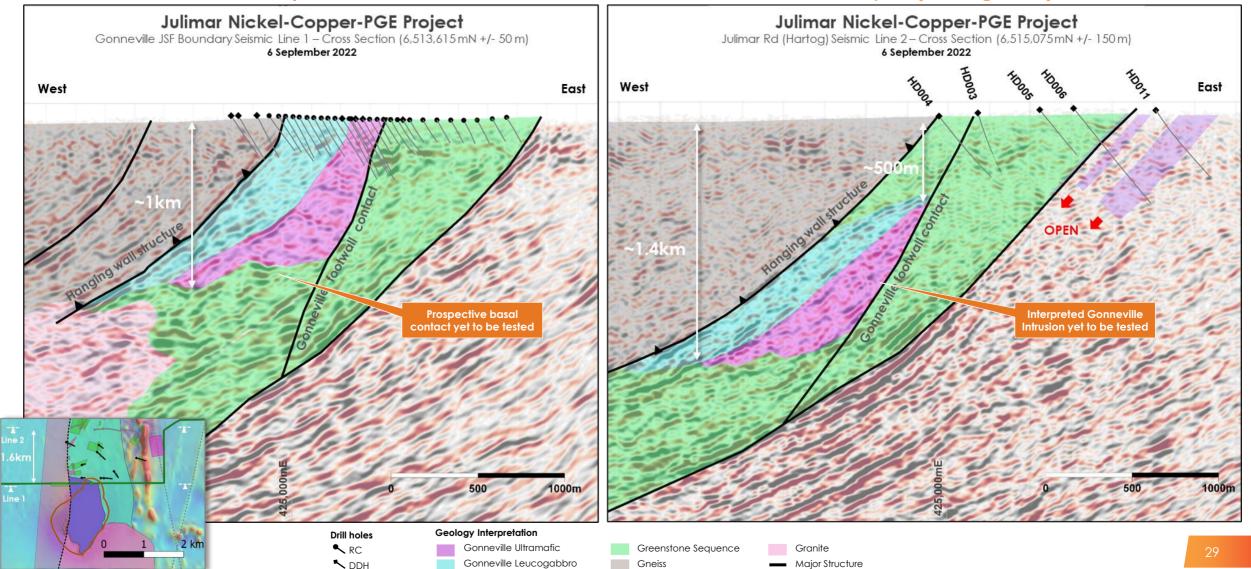
South Julimar Complex Plan View Drill holes, MLEM, over regional magnetics (TMI-RTP)

- New 2D seismic results over Gonneville-Hartoa indicate a potential plunge extension of the Gonneville Intrusion ~1.6km north-west and ~500m below surface
- Given sulphide-rich nature of the Gonneville Intrusion, this could significantly expand the deposit to this point and potentially beyond (open to the north)
- Previous Hartoa drilling too far east and above this interpreted position
- Wide-spaced step-out drilling to validate the seismic interpretation has commenced
- Drilling 6-10km further north of Gonneville has intersected a Gonneville-type ultramafic horizon over ~5.5km of strike length
- All holes to date have intersected highly encouraging evidence of magmatic sulphides
- Drilling at Hamelin-Hann-Hooley targets continues with 2 rigs

The recent 2D seismic survey has shifted the Gonneville target horizon west of Hartog drilling to date, **highlighting significant upside**



2D seismic sections with interpreted Gonneville Intrusion and structures – 2 lines are 1.6km apart (looking north)





Metal equivalent assumptions of Gonneville Resource, 8 July 2022

Based on metallurgical testwork completed to date for the sulphide domain, it is the Company's opinion that all the quoted elements included in metal equivalent calculations (palladium, platinum, gold, nickel, copper and cobalt) have a reasonable potential of being recovered and sold.

Only limited samples have been collected from the transitional zone due to its relatively small volume. Therefore, the metallurgical recovery of all metals in this domain are unknown. However, given the relatively small proportion of the transition zone in the Mineral Resource, the impact on the metal equivalent calculation is not considered to be material.

Metal equivalents for the sulphide domains are calculated according to the formula below:

- "
 NiEq (%) = Ni (%) + 0.33x Pd(g/t) + 0.24x Pt(g/t) + 0.29x Au(g/t) + 0.78x Cu(%) + 3.41x Co(%);
- " PdEq(g/t) = Pd(g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

Metal recoveries used in the metal equivalent calculations are based on rounded average Resource grades for the higher-grade sulphide domain (>0.6% NiEq cutoff):

« Pd – 70%, Pt – 70%, Au – 60%, Ni – 55%, Cu – 90%, Co – 55%.

Metal prices used are used are consistent with those used in the Whittle pit optimisation (based on long term consensus analyst estimates):

« US\$1,800/oz Pd, US\$1,300/oz Pt, US\$1,800/oz Au, US\$22,00/t Ni, US\$10,500/t Cu and US\$75,000/t Co.

Initial metallurgical testwork indicates that only palladium and gold are likely to be recovered in the oxide domain, therefore no NiEq grade has been quoted for the oxide. The PdEq grade for the oxide has been calculated using the formula:

" $PdEq oxide (g/t) = Pd (g/t) + 1.27 \times Au (g/t).$

Metal recoveries based on limited metallurgical test work completed to date:

- « Pd 75%, Au 95%.
- « Metal prices used are consistent with those used in the pit optimisation:
 - US\$1,800/oz Pd, US\$1,800/oz Au

For additional information on the assumptions used in the calculation of metal equivalents, refer to the ASX announcement titled "Updated Gonneville Mineral Resource" dated 8 July 2022.



Long term PGE demand forecast: supporting assumptions & calculations

The long term PGE demand impact from the Hydrogen economy have been generated by Company analysis using assumptions and forecasts that have been informed by recent third party research. The assumptions used below relate to the year 2040. Note: There is the potential risk that these projections will not be achieved should the adoption of a hydrogen economy be less than expected or if major technological developments reduce the PGE loadings required for electrolysers and fuel cells.

Key Model Inputs (2040)

Technology	Input	Unit	Assumption	PGE Demand Calculation
	Capacity	GW	70	
PEM electrolyser	Market share	%	75	$70 \times 75\% \times 0.5 / 31.1^{(1)} = ~ 0.8 \text{Moz}$
	PGE loading	g/kW	0.5	
	Light vehicle market	million per annum	100	
Light Vohiolos	Light FCEV market share	%	12	- 100 x 12% x 80 x 0.13 / 31.1 ⁽¹⁾ = ~4.0 Moz
Light Vehicles	Light vehicle rating	kW	80	- 100 x 12% x 60 x 0.13 / 31.11 - ~4.0 MOZ
	PGE loading	g/kW	0.13	
	Heavy vehicle market	million per annum	7	
Heavy Vehicles	Heavy FCEV market share	%	40	- 7 x 40% x 250 x 0.13 / 31.1 ⁽¹⁾ = ~2.9 Moz
	Heavy vehicle rating	kW	250	- / x 40% x 250 x 0.15 / 51.1(1) = ~2.9 MO2
	PGE loading	g/kW	0.13	

Source: 'Provision of PGM market intelligence and long-term metal price forecasts', SFA Oxford, April 2020 & 2021

^{&#}x27;Strategy Update', AngloAmerican Platinum, 22 February 2021

^{&#}x27;Australian and Global Hydrogen Demand Growth Scenario Analysis', Deloitte & COAG Energy Council, November 2019

^{&#}x27;Fuelling the Future of Mobility' Deloitte & Ballard, 2020

^{&#}x27;Committed to producing green metals', Green Metals & Hydrogen Conference, Sibanye Stillwater, 26 Nov 2021

⁽¹⁾ Calculations use a grams to ounce conversion ratio of 31.1.



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