

**RESOLUTION****MINERALS**<sup>1</sup>

# A NEW FOCUS FOR 2023

**AGM  
PRESENTATION**  
NOVEMBER 2022



# OUR MISSION

Resolution Minerals Ltd (RML) is a junior mineral explorer with a focus on discovering critical new energy metals that will enable the global energy transition to a carbon-neutral economy. It's projects are prospective for in-demand commodities copper, cobalt, manganese, zinc, uranium and gold.

RML believes the best value creation for shareholders is through discovery success.

Market Cap

~\$9.5 m

Top 20 Shareholders

41%

Share Price

\$0.009

JMEI Tax Credits

\$1.25 m

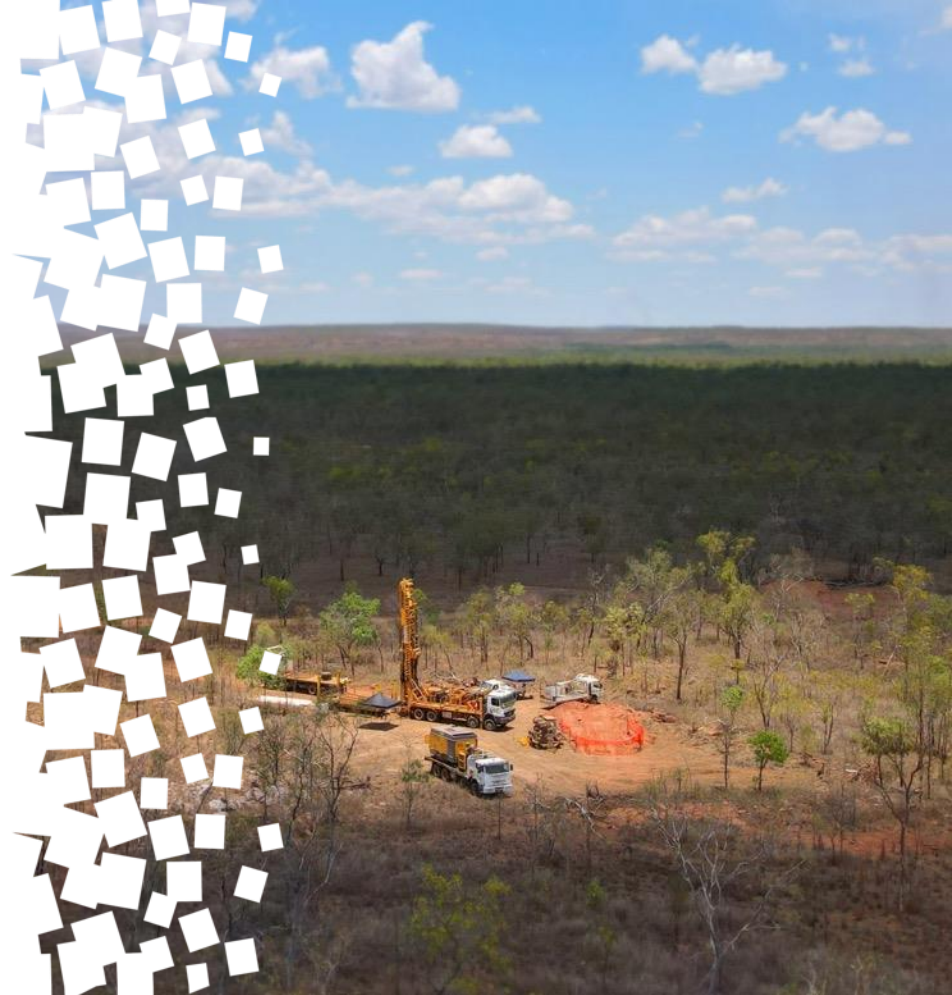
Shares on issue

1.1 billion

Active Projects

5

*\*Figures current as of 17/11/2022*





## AN EXPERIENCED TEAM



### **Duncan Chessell**

### ***Non-Executive Chairman***

Geologist with 25 years' experience in business, precious and battery metals exploration and project generation in Australia, Alaska and Papua New Guinea. Triple Mt Everest summiteer. Previous directorships held in the mining and NFP sectors, currently CEO of Copper Search Ltd (ASX:CUS).



### **Dr Paul Kitto**

### ***Non-Executive Technical Director***

Geologist with 35 years' experience in the mining industry and an impressive track-record including numerous multi-million ounce gold discoveries in Africa, Australia and Papua New Guinea. He is also a Technical Director of Tietto Minerals Ltd (ASX: TIE) Meteoric Resources Ltd (ASX: MEI) and Peak Limited (ASX: PKO).



### **Mark Holcombe**

### ***Executive Director of Corporate Development***

Mr Holcombe is US-based with over 30 years of experience in corporate and investment banking, M&A advisory, corporate development and asset management. Mr Holcombe has an extensive global network, focusing on the battery materials and precious metals sectors. He is currently a senior advisor to Nebari Holdings which provides global financial solutions to the resource sector and works 1/3 time for Resolution.



### **Christine Lawley**

### ***Exploration Manager***

Christine has 15 years' mineral exploration experience in gold, base and strategic metals with Newmont, Musgrave Minerals and Iluka and holds a Masters Degree in Ore Deposit Geology. Christine has a wealth of experience from mine site geology, resource modelling to early-stage exploration. Christine is also Principal Geologist.



### **Dr David Rawlings**

### ***Consulting Geologist***

Dr Rawlings has extensive Lithium expertise and served as the exploration manager for Core Lithium (ASX: CXO) for six years from 2016-2021 and drove much of the exploration success to which Core owes its success. Dr Rawlings has extensive sediment-hosted battery metals expertise and worked for uranium producer Cameco and Toro Energy as the exploration manager throughout a 30-year career in the industry.



# RESOLUTION MINERALS PROJECTS

ALASKA

Global uncertainty and volatility  
retains gold's attractiveness

## PROJECT NAME: 64NORTH

Location: Alaska  
Lat-Long: 64°N, 144°W  
Key Commodities: Gold, Copper  
Ownership: 42% Resolution  
JV Partner: RML earning in

## PROJECT NAME: WOLLOGORANG

Location: Northern Territory  
Lat-Long: 17°S, 137°E  
Key Commodities: Copper, Cobalt  
Ownership: 100% Resolution  
JV Partner: OZ Minerals earning in

## PROJECT NAME: CARRARA RANGE

Location: Northern Territory  
Lat-Long: 18°S, 137°E  
Key Commodities: Manganese, Iron Ore,  
Battery Metals  
Ownership: 100% Resolution

## PROJECT NAME: BENMARA

Location: Northern Territory  
Lat-Long: 18°S, 136°E  
Key Commodities: Battery Metals  
Ownership: OZ Minerals earning in

AUSTRALIA

The voracious appetite for copper,  
cobalt, nickel, aluminum and other battery  
metals required to convert the world  
from fossil fuels to green electrical alternatives  
is now a short, medium and long  
term reality

Assets all in the top 20 ranked mining jurisdictions

**RML**  
RESOLUTION  
MINERALS LTD

## A NEW FOCUS

Over the next year Resolution Minerals is sharpening its focus on critical new energy metals that will enable the global energy transition to a carbon-neutral economy.

Resolution already holds multiple Australian projects prospective for copper, cobalt, manganese, lead, zinc, uranium and holds ~5% stake in Midwest Lithium – all commodities in high demand and critical for the transition to a carbon-neutral economy

**Drilling is currently underway at the Wollogorang Copper Project**





The mining industry needs to deliver 9.7 million tonnes of new mine supply over the next decade from **#Copper** projects that have yet to be sanctioned to meet net-zero targets.

- Wood Mackenzie Report (2022)

## NEW ENERGY METALS

Resolution Minerals believes that the transition to a carbon-neutral economy is going to create a lot of opportunities to make the next big new energy metals discovery.

RML is positioning itself to leverage this emerging super-cycle by growing its portfolio of projects that are prospective for in-demand commodities such as copper, cobalt, manganese, zinc, uranium and lithium.

To meet increasing demand at least 384 new **#Battery Metal** mines are needed in the next 12 years.

- Benchmark Minerals Report (2022)



# NEW ENERGY METALS PORTFOLIO



The **Benmara, Wologorang and Carrara Range Projects** are part of Resolution's strategy to make the next big energy metals discovery in under explored regions of Northern Australia

# WOLLOGORANG PROJECT (Cu, Co, U)



The underexplored Wollogorang Project is located in the highly prospective McArthur Basin, with surrounding ground held by Teck, BHP, Rio Tinto, Redbank and South 32.

## STATUS:

~6500m drilling program underway

## OVERVIEW

- Covering **3,825km<sup>2</sup>** in the McArthur Basin prospective for sedimentary hosted battery metals: copper, cobalt and hard rock uranium.
- Wollogorang is positioned on Geoscience Australia's newly defined base metal corridor - (Hoggard et al 2020).
- Proven mineralisation with the Stanton Cobalt Deposit.
- Farm-in & JV agreement struck with Australian copper producer OZ Minerals. OZL can earn a 51% interest by spending ~\$4.9m over 5 years.

## KEY NEWS

RML has commenced it's first drilling program with input from the OZ Minerals team. The program is been designed to test significant geophysical anomalies in favourable stratigraphic and structural positions for hosting mineralisation.

## WHAT'S NEXT:

Drilling assays due in early 2023.



# BENMARA PROJECT (Cu, Pb, Zn, Co, U)



**The Benmara Project gives RML a commanding ground position in the South Nicholson Basin, one of the most under-explored parts of Australia.**

The rocks are analogous to world-class McArthur River Mine and other significant deposits in the region.

## STATUS:

Drilling planned

## OVERVIEW

- Covering **3,840km<sup>2</sup>** of the South Nicholson Basin margin and positioned on the Fish River Fault analogous rocks to world-class McArthur River Mine and other significant deposits in the region.
- A successful 'proof of concept' RC drilling program confirmed up to ~200m thick shale units ideal trap rocks for base metals.

## KEY NEWS:

**Farm-in & JV agreement struck with Australian copper producer OZ Minerals.**

The recent agreement will see OZ Minerals (ASX: OZL) sole fund exploration activities in stages, potentially through to Final Investment Decision (FID) to mine. OZL can earn a 51% interest by spending \$4m over 5 years.

## WHAT'S NEXT:

Heritage surveys completed and drilling planned for 2023.

# CARRARA RANGE PROJECT (Mn, Fe, Cu, Pb, Zn)



**The Carrara Range Project is prospective for sediment hosted battery metals.** The project is complementary to Resolution's nearby Benmara and Wollogorang Projects.

## STATUS:

Detailed desktop review underway

## OVERVIEW

- The project covers **1,271 km<sup>2</sup>** in the South Nicholson Basin
- Q4, 2021 successful proof of concept RC drilling program confirmed up to ~200m thick shale units ideal trap rocks for base metals to the north on the adjacent Benmara Project.

## KEY NEWS:

Geoscience Australia identified a manganese mineral occurrence within the project area, untested by drilling, highlighting the underexplored and prospective nature of the project. Land access negotiations and heritage surveys are ongoing to access this exciting prospect.

## WHAT'S NEXT:

Native title access agreements and heritage surveys in 2023



## A GROWING PORTFOLIO FOR A GROWING MARKET

Throughout 2022 Resolution Minerals has added several new projects as part of its commitment to grow its exposure to new energy metals.



# MIDWEST LITHIUM (Li)



**RML has a ~5% stake in North American focussed hard rock lithium exploration company Midwest Lithium and is part of RML's commitment to growing its exposure to new energy metals.**

## OVERVIEW

- Midwest Lithium has acquired ground in the Black Hills Region of South Dakota, an underexplored known spodumene-pegmatite lithium field in an area with significant past spodumene (lithium) production.
- Dakota is a top-rated North American mining jurisdiction with established large-scale mining operations.

# GEORGE PROJECT (Uranium)

## STATUS:

Detailed desktop review underway

## OVERVIEW

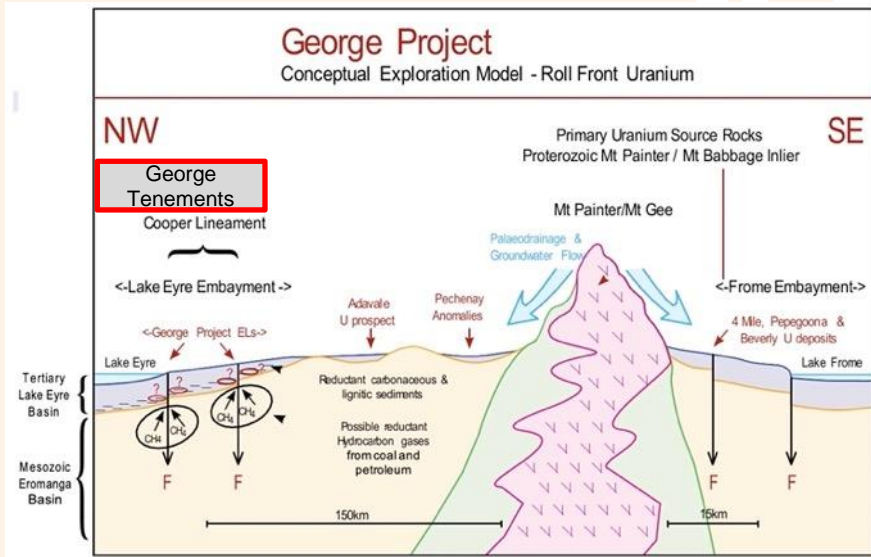
- The George Project encompasses 2,839km<sup>2</sup> in South Australia.
- Conceptual Kazakhstan style sediment hosted uranium project to the west of the Mt Painter inlier in northern flinders. The Mt Painter inlier is the source of mineralisation of the Beverly and 4-Mile deposits to the East of the inlier. Underexplored.

## LATEST NEWS:

Tenements granted in late 2022

## WHAT'S NEXT:

Native title land access agreements and preliminary ground work, followed by airborne EM geophysics surveys in 2023.



Schematic diagram of the conceptual model for the George Project





# 64NORTH GOLD PROJECT

Tourmaline Ridge Drilling Program (2022)



# 64NORTH PROJECT

The 64North Gold Project is in the highly prospective Tintina Gold Province, home of GIANT size gold deposits.



Deposit sizes stated as Endowment (Resources + Reserves + Historic Production), from Company websites, as listed on disclaimer slide

## STATUS:

Assays pending

## OVERVIEW

- **357km<sup>2</sup>** surrounding the 12M oz Au Pogo Gold Mine (~227km<sup>2</sup> tenure) owned by Northern Star (ASX:NST).
- Prospective for high-grade Pogo-style gold and Cu-Mo-Au porphyry mineral systems
- Expenditure requirements to earn 51% interest have been completed, final shareholder approval (at this AGM) is required for 10m milestone shares to be issued to vendor and US\$100K cash by 31/07/23.
- Since 2019, RML has built a strong pipeline of prospects, acquired new geophysical data sets and built jurisdictional expertise.

## LATEST NEWS

A 5-hole, 2,324m drill program at Tourmaline Ridge was completed in August 2022.

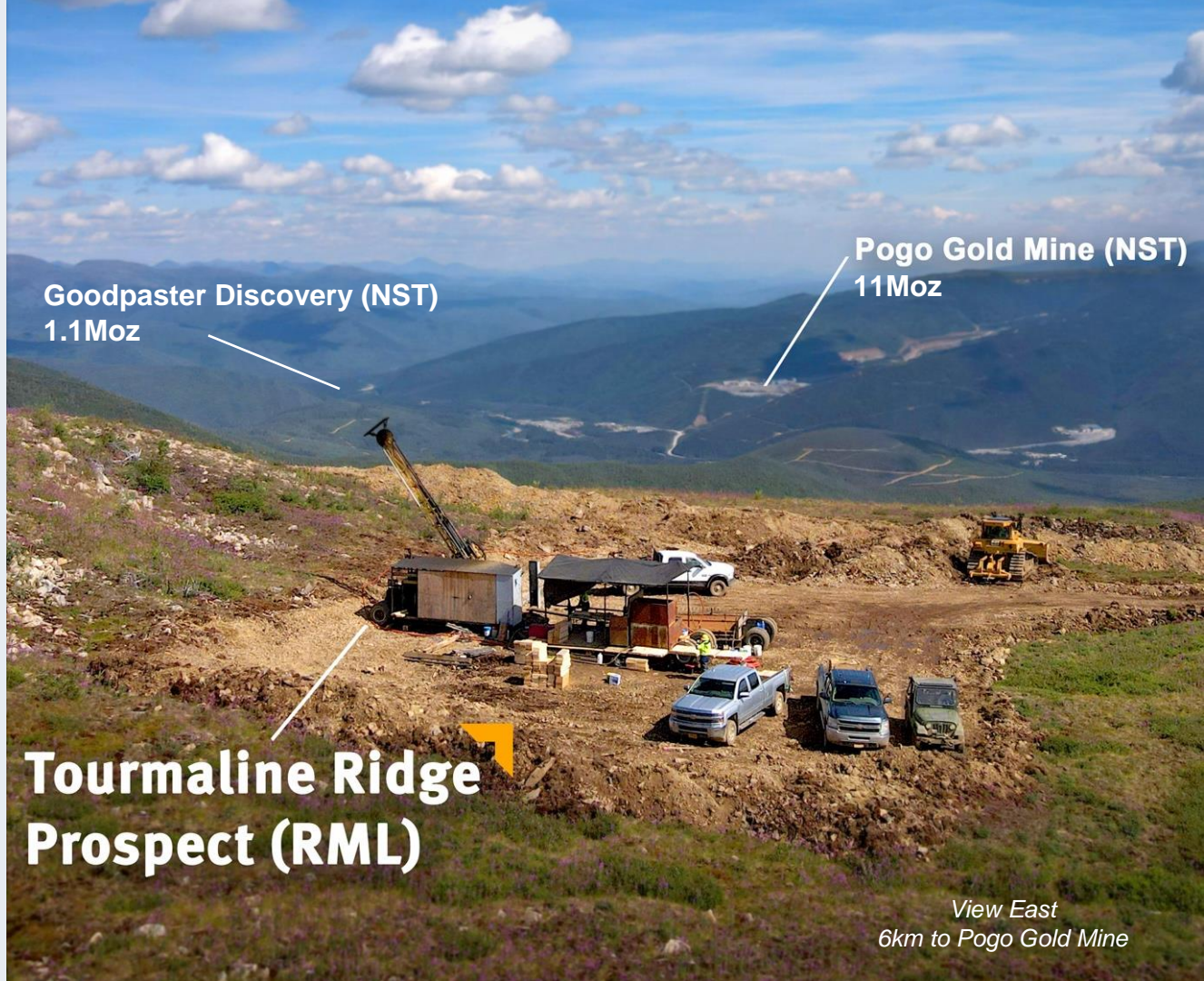
The program targeted Pogo-style high-grade gold in a NW dipping shear coincident with a large surface Au geochemical anomaly and up to 4.8g/t Au in trenching results.

### Early Results:

Select assay results (16% of the samples) have been received. Although there were no significant gold results ( $>0.5\text{g/t}$ ) low-level elevated gold ( $0.04 - 0.2\text{g/t}$ ) is common and shows distinctive trends in both holes associated with Pogo Style quartz veins. It also indicates that a gold-bearing hydrothermal event has occurred across a wide area at Tourmaline Ridge.

### More Results:

The remaining results (84%) are expected in December based on current lab turn-around times.



Goodpaster Discovery (NST)  
1.1Moz

Pogo Gold Mine (NST)  
11Moz

**Tourmaline Ridge  
Prospect (RML)**

View East  
6km to Pogo Gold Mine





## WHAT'S NEXT

- Remaining assays (84%) from the Tourmaline Ridge due in late 2022. These results will determine the exploration program in 2023.
- A pipeline of high-quality targets to test, including Cu-Mo-Au porphyry mineral systems on the Divide Block.
- Resolution is evaluating multiple strategic alternatives to advance the 64North Gold Project in order to maximize shareholder value and create a new precious metals platform company.



# INVESTMENT HIGHLIGHTS

- Strong technical team with track record of exploration success
- A growing portfolio of projects that have exposure to in demand commodities
- A pipeline of high quality targets to put in front of the drill bit
- A de-risked approach with JV partners sole funding exploration on the Wologorang and Benmara Projects.



# DISCLAIMER, JORC INFORMATION & COMPETENT PERSONS STATEMENT

This presentation has been prepared by Resolution Minerals Ltd (Resolution). This document contains background information about Resolution current at the date of this presentation. The presentation is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation. This presentation is for information purposes only. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sales of shares or other securities in any jurisdiction. This presentation is not a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with the Australian Securities and Investments Commission (ASIC)) or any other law. This presentation does not constitute investment or financial product advice (nor tax, accounting or legal advice) and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities involve risks which include (among others) the risk of adverse or unanticipated market, financial or political developments. To the fullest extent permitted by law, Resolution, its officers, employees, agents and advisors do not make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise are accepted. This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Resolution. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this presentation speak only at the date of issue of this presentation. Subject to any continuing obligations under applicable law, Resolution does not undertake any obligation to update or revise any information or any of the forward-looking statements in this presentation or any changes in events, conditions, or circumstances on which any such forward looking statement is based.

## JORC Information

This report includes results that have previously been released under JORC 2012 by the Company. Additional details including JORC 2012 reporting tables, where applicable can be found in the following relevant announcements lodged with the ASX and the Company is not aware of any new data or information that materially affects the information included in the announcements listed; 24 November 2017 as "High Grade First Drill Results - Stanton Cobalt Deposit", 29 November 2017 as "Further High Grade Cobalt Results - Stanton Cobalt Deposit", 7 December 2017 as "Stanton Cobalt Resource Remains Open in Multiple Directions", 22 December 2017 as "Detailed Magnetic Survey over Stanton Cobalt Deposit", 5 February 2018 as "Final Drilling Results 2017 Drilling Program", 7 May 2018 as "Stanton Cobalt Resource Diamond Assay Results", 30 May 2018 as "Regional Cobalt Targets Identified on Wollogorang Project", 28 August 2018 as "Copper discovered at First Drill Target", 19 September 2018 as "Copper Discovery Grows at Gregio Prospect", 28 September 2018 as "AGM Managing Director's Presentation", 9 October 2018 as "Copper Intersection Confirms New Model at Running Creek", 19 October 2018 as "Cobalt System Developing at Running Creek", 14 December 2018 as "Cobalt, Copper System Confirmed at Running Creek", 22 January 2019 as "Geophysics Highlight Potential at Gregio", and 9 July 2021 as "VTEM Survey Identifies Multiple Conductors - Wollogorang Project" and on the 64North Project: "2019 AGM Managing Director's Presentation" on 26 November 2019, "Exploration Update - 64North Project Alaska" on 14 May 2020, "Drilling Update - 64North Project Alaska" on 24 June 2020, "Investor Presentation - Noosa Mining Virtual Conference" on 13 July 2020, "Drilling Commenced at Reflection Prospect - 64North" on 25 August 2020, "Assays and Operations Update 64North Project Alaska" on 10 September 2020, "Boundary Prospect Results at Pogo Trend - 64North Project" on 24 September 2020, "Drilling Results West Pogo Block - 64North Project, Alaska" on 29 September 2020, "Quarterly Report September 2020" on 30 October 2020, "Alaska Miners Association Technical Presentation" on 5 November 2020, "New Claims Added East Pogo - 64North Project, Alaska" on 14 December 2020, "Outcropping Gold System Identified - Assay Results 2020, 64North, Alaska" on 18 January 2021, "Sunrise Prospect assay results confirm Fort Knox Style mineralisation" on 17 May 2021, "Drilling Program Completed at East Pogo Gold Prospect" on 5 July 2021, "East Pogo Drilling Update - 64North Project" on 6 August 2021, "Positive trenching results identify Pogo-style drill targets - Tourmaline Ridge 64North Project" on 24 February 2022, "Positive Technical study completed - Cu-Au-Mo Porphyry Prospects - Divide Block 64North Project" on 25 February 2022, "Preliminary Results Tourmaline Ridge" 6 September 2022, "Regional Exploration Update 64North Project" 20 September 2022 and "Benmara Project Proof of Concept Drilling Successful" on 3 December 2021. The Company is not aware of any new information or data that materially affects the information included in this announcement and all material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed.

## Competent Persons Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Duncan Chessell who is a member of the Australasian Institute of Mining and Metallurgy and Australian Institute of Geoscientists. Mr Chessell is a Director and full-time employee of the company. Mr Chessell holds Shares, Options and Performance Rights in the Company as has been previously disclosed. Mr Chessell has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Duncan Chessell consents to the inclusion in the report of the matters based on his information in the form in which it appears.

## Project Ownerships

64North Project - RML holds a 42% Interest and is earning to a 60% interest with a pathway to earn up to 80% on a "best block", see ASX:RML Announcement 31/1/22. Benmara and Wollogorang Projects, RML holds a 100% interest with Farm-in Agreement with OZL to earn-in, see RML Announcement 24 August 2021 and 13 May 2022. Carrara Range Project - RML has a 100% ownership ASX Announcement 3 February 2022.

**Australian Projects Location Map** – source of data Geoscience Australia (LAB 170km Depth Corridor - Hoggard et al 2020), Northern Territory Government of Australia (STRIKE Tenure and Geoscience Information, Queensland Government (Open Data Portal Queensland Mining and Exploration Tenure Series).

**Tintina Gold Province Map** – source of data: Kensington (Coeur Mining, [www.coeur.com](http://www.coeur.com)), Pebble (Northern Dynasty, [www.northerndynastyminerals.com](http://www.northerndynastyminerals.com)), Pogo (Northern Star Resources, [www.nsrltd.com](http://www.nsrltd.com)), Fort Knox (Kinross, [www.kinross.com](http://www.kinross.com)), Donlin Creek (NovaGold, [www.novagold.com](http://www.novagold.com)), Livengood (International Tower Hill Mines, [www.ithmines.com](http://www.ithmines.com)), Eagle & Dublin Gulch (Victoria Gold Corp, [www.vgco.com](http://www.vgco.com)), Brewery Creek (Golden Predator, [www.goldenpredator.com](http://www.goldenpredator.com)), White Gold (White Gold Corp, [whitegoldcorp.ca](http://whitegoldcorp.ca)), Coffee (Newmont, [www.newmont.com](http://www.newmont.com)).



# APPENDIX

## TECHNICAL / DETAILS



# PROJECT OWNERSHIP SUMMARY

## 64North Project: 42% Interest in 64North Project\*

Stage	RML US\$ CASH SPEND Required	% Earn in RML	RML Shares to Millrock	Stage Completion Fee US\$	Due Date
Year 3	Completed	51%	10m*	\$100,000	31/7/2023
Right to form JV on co-funding basis or continue to earn-in					
Year 4	\$2.35m	60%	10m	\$100,000	31/1/2024

*\*shares issued subject to shareholder approval at 2022 AGM. RML holds right of first refusal (ROFR) over vendor interest (Millrock Resources). Vendor (Millrock Resources) is a project generator listed on the TSXV: MRO. Pathway to 80% on one "best Block" of 9 blocks, by loan carrying vendor to first production. Minor NSR royalties to historic prospectors range from 0% to maximum 1.5% on certain areas with buy downs. \*One off 6 month "grace period" can extend in any one due date by 6 months. i.e. Year 3 would become 31/7/2023 (as above in table) – see ASX:RML Announcement 31 January 2022 for more details.*

Project	Current Interest	Details
Benmara	100%	<b>Subject to Farm-in Agreement with OZ Minerals (ASX: OZL)</b> <ul style="list-style-type: none"> <li>OZL can earn a 51% interest by spending ~\$4m over 5 years</li> <li>RML may retain 49% interest by electing to participate from year 6</li> <li>If RML elects not to participate, OZL has the option to earn a 75% interest, by sole-funding and delivering a Positive Final Investment Decision to Mine (at a minimum spend of \$1m/year OZL has a further 5 years to complete)</li> </ul>
Wollogorang	100%	<b>Subject to Farm-in Agreement with OZ Minerals (ASX: OZL)</b> <ul style="list-style-type: none"> <li>OZL can earn a 51% interest by spending ~\$4.9m over 5 years</li> <li>RML may retain 49% interest by electing to participate from year 6</li> <li>If RML elects not to participate, OZL has the option to earn a 75% interest, by sole-funding and delivering a Positive Final Investment Decision to Mine (at a minimum spend of \$1m/year OZL has a further 5 years to complete)</li> </ul>
Carrara Range	100%	Early Stage new acquisition, undergoing full review. Highly prospective for manganese from surface, battery metals and iron ore.

Approved for release by the board  
21 November 2022

## Contact Details

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RESOLUTION  
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