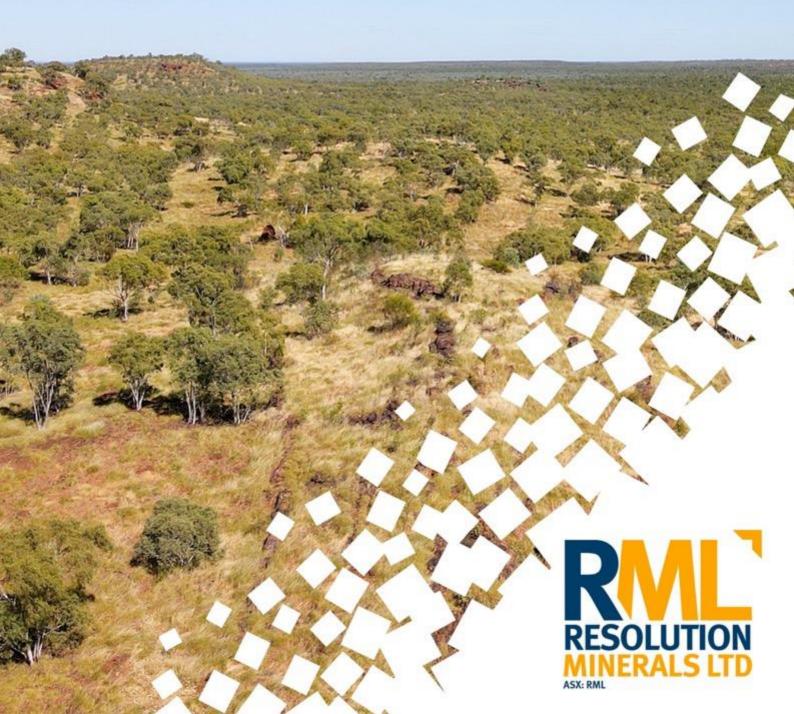
SEPTEMBER 2023



27 October 2023

Resolution Minerals has been busy over the September Quarter. The Geology Team was engaged in a major drilling campaign on the Benmara Project in the Northern Territory with the assistance of our partner BHP Limited. The team must be congratulated on the completion of the drilling in a very remote location without any incident. Performing exploration safely and in an environmentally sensitive manner is a critical element of our culture and how we work. We look forward to receiving and evaluating the results of the drilling before the end of 2023.

Although a relatively small transaction, the completion of the sale of the Wollogorang Project in the Northern Territory to NT Minerals represents an important step for the company. As an exploration company Resolution needs to manage its portfolio of projects in the most efficient manner to maximise its capital and focus the time of its team on the projects most likely to deliver a discovery, and hence value to shareholders. It was considered that the Wollogorang Project was not the highest priority, so it was time to seek an exit and deploy the company's resources elsewhere.

The Allegra Nickel Project in Alaska is a major addition to the Company's new energy metals portfolio. The Company has strong experience working in Alaska and the Allegra Project is a great addition with its prospectivity for low grade but high tonnage nickel sulphides. The Carrara Project in the Northern Territory also provided some exciting rock chip results for Manganese following some preliminary early-stage work on the granted tenements.

I look forward to sharing the next steps in our journey to discovery success with you.

Chris McFadden

Chris McFadden

Managing Director

Resolution Minerals Ltd

RESOLUTION MINERALS PROJECTS

Assets all in the top 20 ranked mining jurisdictions

Global uncertainty and volatility retains gold's attractiveness

PROJECT NAME: 64NORTH

Location: Alaska

Area: 357 km²

Key Commodities: Gold, Copper

Ownership: 51% Resolution

JV Partner: 49% Alaska Energy

Metals

PROJECT NAME: BENMARA

Location: Northern Territory

Area: 3,064 km²

Key Commodities: Copper, Lead, Zinc

Cobalt, Uranium

Ownership: 100% Resolution

JV Partner: BHP earning in

TRALIA

PROJECT NAME: ALLEGRA

Location: Alaska

Area: 295 km2

Key Commodities: Nickel, Copper

Ownership: 100% Resolution

PROJECT NAME: CARRARA RANGE

Location: Northern Territory

Key Commodities: Manganese, Iron,

Copper, Lead, Zinc

Ownership: 100% Resolution

Area: 1,271 km2

PROJECT NAME: GEORGE

Location: South Australia

Area: 2,839 km2

Key Commodities: Silica Sand, Uranium

Ownership: 100% Resolution

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



HIGHLIGHTS

(As of 27 OCTOBER 2023)

Exploration

Carrara Range Project, S.A.

• 41% Manganese Oxide Rock Chip Identified

Benmara Battery Metals Project, N.T.

• Drilling Completed at the Benmara Battery Metals Project

Allegra Nickel Project, Alaska

• New Nickel Project Granted

Corporate

- Wollogorang Project Sale Complete
- Cash at bank as at 30 September 2023 of \$1.7 million





September 2023

EXPLORATION ACTIVITIES

NEW ENERGY METALS PROJECTS

Resolution is focussed on developing a portfolio of quality new energy metals projects with commodities required to meet future global demands for a carbon-neutral economy. RML holds a number of Australian projects prospective for copper, high-purity silica sand, manganese, cobalt, lead, zinc, and uranium and holds ~5% stake in Midwest Lithium – all commodities in high demand to meet the challenges of the global energy transition and the production of electric vehicles, wind turbines and solar panels.

The recent addition of the Allegra Project in Alaska to our portfolio has added exposure to Nickel.



Figure 1. The RML Exploration Team verifying historical Uranium rock chip location data at the George Project, S.A.



September 2023

Carrara Range Manganese Project

Manganese, Iron

KEY UPDATE

41% Manganese Oxide Rock Chip Identified

The Carrara Range Manganese Project covers 1,271km² of ground that is prospective for manganese, copper, lead, zinc and iron-ore. The project is situated on the southern portion of the underexplored South Nicholson Basin within the McNamara Group (host sequence to the Century Mine).

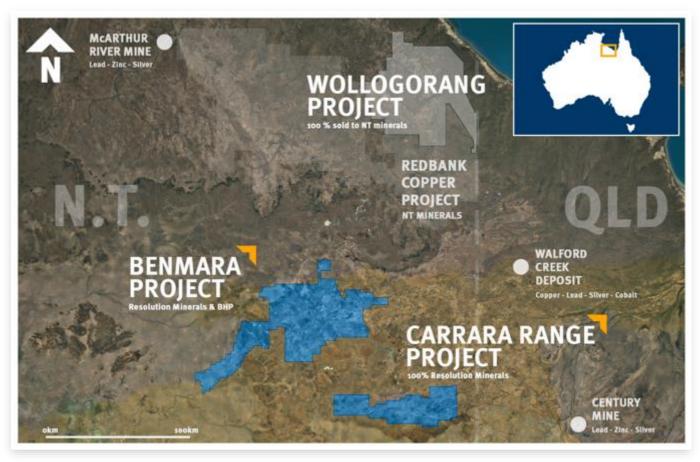


Figure 2. Location of RML's Northern Territory Projects and significant other parties' projects in the region



September 2023

Manganese Potential

RML's attention was drawn to the Carrara Range area after a high-grade manganese occurrence was identified by Geoscience Australia within the Carrara Range. Geoscience Australia, under the Exploring for the Future (EFTF) initiative (2016–2020), in collaboration with State and Territory Geological Surveys, identified a rock chip from the Plain Creek Formation (McNamara Group) immediately north of RML's granted project area returning 49.8% MnO (Carson et al., 2020).

Based on satellite imagery, the MnO occurrence is associated with a twenty-metre-wide, laterally extensive outcrop (hundreds of metres long) with an unknown depth extent. Numerous 1–5mm wide zoned 'feeder' veinlets are evident in the host rock immediately surrounding the occurrence which is interpreted to be an epigenetic replacement stratiform body. The MnO occurrence is spatially associated with the Wild Cow Fault, and is positioned within the fault system's hanging wall (Carson et al., 2020).



Figure 3. The RML Exploration Team reviewing an outcrop on the Carrara Range Prospect

Manganese fits our new energy metals strategy because it is used as a stabilising component in the cathode of batteries, including those used in electric vehicles and energy storage systems. Some forecasters are suggesting that the global demand for manganese from the battery sector could increase up to ninefold by 2030.



September 2023

41% Manganese Oxide Rock Chip Identified at Carrara Range Project



Figure 4. Manganese mineralisation identified at the Carrara Range Prospect

In September, Resolution announced it had identified multiple high-grade manganese oxide (MnO) rock chips up to 41% MnO at the Carrara Range Project. These samples were collected during a helicopter-supported reconnaissance program that was designed to assess the manganese potential of the Plain Creek Formation in the hanging wall of the Wild Cow Fault system (see ASX announcement "41% Manganese Oxide Rock Chip at Carrara Range Project" on 26 September 2023).

RML is now planning a follow-up work program to further define the manganese occurrences. A detailed surface geochemical sampling and a micro gravity survey will aim to define the likely extent of massive manganese at depth and along strike undercover. Mineralogy studies will be completed over the wet season (Jan-March) with the aim of having drill-ready targets defined ahead of the 2024 dry season.

"

We are thrilled to have identified high grade manganese at surface on our 100% owned Carrara Range project. Our team's strength in generative exploration has paved the way for this discovery, on a project which complements our new energy metals portfolio."

- Managing Director Chris McFadden



September 2023

Benmara Battery Metals Project

Copper, Lead, Zinc, Uranium

KEY UPDATE

Drilling Completed at the Benmara Battery Metals Project

Resolution Minerals holds a large ground position of over 3,000km² on the northern edge of the South Nicholson Basin, one of Australia's most under-explored sedimentary basins. The project is cut by several fault systems, which cross-cut sedimentary packages, analogous to host rocks of the world-class McArthur River Mine, Walford Creek Deposit, and several other significant deposits in the region. The Project is fully funded for the next 5 years through a Farm-in agreement with the BHP Group.

The Benmara Project is in many respects, a new geological frontier. Until recently, the Benmara Group was thought to be geologically younger. However, in 2020, geochronology published by Geoscience Australia demonstrated that this belief was incorrect and, more importantly, that the Benmara Group is Paleoproterozoic rather than Mesoproterozoic. This means the rocks are stratigraphically and temporally equivalent to the prospective Fickling Group (Walford Creek Deposit) and the McNamara Group (Century Mine). The Exploring for the Future Initiative found evidence of a regional shallow-marine hydrothermal circulatory system. This system shares its age with the battery metal mineralisation in the resource-rich Mount Isa Province and further supports the prospectivity of the Benmara Project.



Figure 5. Fault Zones targeted in drilling at the Benmara Project



September 2023

Drilling Completed at the Benmara Battery Metals Project

During August and September, Resolution Minerals completed three deep stratigraphic diamond core drill holes, for a total of 2,002m, at the Benmara Battery Metals Project in the Northern Territory.

The drill programme was designed to test the Fish River and Bauhinia Faults. These fault zones provide an ideal location for mineralised fluids to focus and precipitate metals in reductive trap sites. This is evidenced by the formation of the nearby Walford Creek Deposit (Cu-Pb-Zn-Ag-Co) and the Century Mine (Pb-Zn-Ag) in Queensland, which share equivalent host rocks and similar structural settings. The original plan was to drill only two holes, but the exploration team decided to add an extra hole at Target #1 to enhance understanding of the structural controls of the Fish River Fault.



Figure 6. RML MD Chris McFadden inspects drill core at the Benmara Project

The drilling programme was the first phase of a multi-year program designed in collaboration between the RML and BHP Group exploration teams to discover a Tier 1 battery metals deposit. It was fully funded via a Farm-in & JV Agreement with the BHP Group for expenditure of up to \$4m in stages over five years for the BHP Group to earn an initial 51% interest. \$150,000 was also awarded to the programme costs through the Geophysics and Drilling Collaborations Program, funded by the Northern Territory Government.

Assay results are expected in late 2023.

The opportunity to drill test an underexplored and prospective patch of ground like Benmara does not come around too often, so we are looking forward to getting the results of the drilling and progressing the project. I would like to thank the exploration team at BHP for their hard work and guidance in helping to progress the project and unlock the potential of the Benmara Project.

- Managing Director Chris McFadden





September 2023

Allegra Nickel Project

Nickel, Copper

KEY UPDATE

New Project Granted

On August 21, Resolution Minerals announced that it has been granted the 100% owned Allegra Nickel Project in Alaska. The project is prospective for magmatic nickel-copper-cobalt-chrome-PGE sulphide mineralisation and is a strong addition to RML's portfolio of new energy metals projects. Resolution was an early mover in the region and has secured a ground position of 295km².



Figure 7. Location of RML's Allegra Project and the Eureka Exploration Target (TSX: AEM)



September 2023



Figure 8. The Allegra Project

Nickel Potential

The Allegra Project is situated within the underexplored Wrangellia Terrane of central Alaska, along strike from Alaska Energy Metals' Nikolai Project, Eureka Zone. The Eureka Zone is a lower grade, high tonnage, strike extensive (>15km) disseminated nickel-copper-PGE sulphide prospect, hosted in the Nikolai Greenstone. The potential also exists for massive Ni-Cu-PGE sulphide mineralisation with significantly higher-grade zones than previously intersected. Historical announcements by Pure Nickel reference off-hole conductors identified in down hole EM surveys, supporting the potential for massive sulphides.

RML's neighbours, Alaska Energy Metals, are currently conducting a ~CA\$6.5m resource drilling programme, which aims to define a NI 43- 101/JORC compliant Resource.

"

The Allegra Nickel Project is an exciting addition to RML's portfolio of New Energy Metals projects. The demand for this important battery metal is forecast to continue to increase over the next decade and the recent activity in the region, including the current drilling programs by our neighbours and the rush to stake new ground, shows that RML has secured a good address in this emerging Nickel district. The Resolution team has been working in Alaska for multiple field seasons and is well positioned to progress the project.

- Managing Director Chris McFadden



September 2023

CORPORATE

Wollogorang Project Sale Complete

Resolution Minerals completed the sale of the Wollogorang Project to NT Minerals Limited (ASX:NTM) on 17 October 2023. NTM now holds a 100% unencumbered interest in the seven Wollogorang Project tenements, EL31272, EL30496, EL30590, EL31546, EL31548, EL31549, EL31550 via the sale of the holding company - Mangrove Resources Pty Ltd - to NTM.

Resolution received \$250,000 for the project - comprising \$50,000 cash and \$200,000 worth of shares (22,199,101 shares) in NTM. The calculation of the number of shares was based on the 10-day VWAP prior to completion of the transaction. The sale, for cash and shares, allows RML to focus funds on other projects and retain upside through a shareholding in NT Minerals.

The Wollogorang Project covers over three thousand eight hundred square kilometres in the north-east of the Northern Territory.

Cash balance 30 September 2023

The Cash at Bank at the end of the Quarter (30 September 2023) was \$1.7 million.



September 2023

Appendix 5B expenditure disclosure

RML's Appendix 5B includes expenditure amounts of \$99k in items 6.1 and 6.2 representing payments of Executive and Non-executive Director fees paid as salaries and to entities nominated by relevant Directors.

During the September Quarter, RML expended \$1,101k on exploration activities. This expenditure primarily represents costs associated with drilling activities at the Company's Benmara Project in the NT.

Share capital changes

During the September Quarter, the following changes were made to RML's securities:

- Issue of 57,550,000 performance rights as director remuneration
- Lapse of 74,634,643 quoted options (RMLOB).

A summary of movements and balances of equity securities between 1 July 2023 and this report are listed below (items marked with * occurred subsequent to the end of the September Quarter):

	Quoted			Und	Unquoted	
	Ordinary shares (RML)	Options (RMLOB)	Options (RMLO)	Options	Performance rights	
On issue at start of the Quarter	1,257,291,807	74,634,643	624,508,035	162,006,060	43,514,700	
Issue performance rights	-	-	-	-	57,550,000	
Lapse of options*	-	(74,634,643)	-	-	-	
Total securities on issue at the date of this report	1,257,291,807	-	624,508,035	162,006,060	101,064,700	



September 2023

Tenement table

Tenement number	Tenement name	Beneficial Interest at the end of the Quarter	Changes during Quarter
Wollogorang Project -	Northern Territory, Australia		
EL30496	Karns	100%	None*
EL30590	Selby	100%	None*
EL31272	Running Creek	100%	None*
EL31546	Calvert	100%	None*
EL31548	Sandy Creek	100%	None*
EL31549	Camel Creek	100%	None*
EL31550	Madulgina Creek	100%	None*
Benmara Project - No	rthern Territory, Australia		
EL31287	Pandanus	100%	None
EL32228	Benmara	100%	None
EL32229	Murphy	100%	None
EL32849	Paradise Bore	100%	None
EL32850	Boxer	100%	None
EL32883	Murphy	100%	None
EL33059	Lilly	100% (Application)	None
EL33612	Benmara	100% (Application)	New Application
EL33613	Benmara	100% (Application)	New Application
Carrara Range Project	 Northern Territory, Australia 		
EL32622	Carrara	100%	None
EL32620	Carrara	100%	None
EL32577	Carrara	100%	None
EL32621	Carrara	100% (Application)	None
EL32619	Carrara	100% (Application)	None
EL32578	Carrara	100% (Application)	None
George Project - Sout	h Australia, Australia		1
EL6838	George	100%	None
EL6839	George	100%	None
EL6840	George	100%	None
EL6905	George	100%	None
64North Project - Alas	ka, USA	ı	1
1,195 Alaska State Claims	64North Project claims	51%	None
Allegra Project – Alasi	ka, USA		1
201 Alaska State Claims	Allegra Project claims	100%	Claims granted during the quarter

^{*} Note: Sale of the Wollogorang Project tenements completed in October 2023.

The Company is not aware of any new information or data materially affecting the results cross-referenced in this announcement.

September 2023 Quarter ASX Announcements

The following significant announcements and exploration results were lodged with ASX during the September Quarter and in the month of October 2023 before the issue of the Quarterly Report:

2023	Title of Announcement
18 July	Drill Targets Confirmed at Benmara Battery Metals Project
3 August	Drilling Commenced at the Benmara Battery Metals Project
21 August	New Nickel Project Granted
21 September	Drilling Completed at the Benmara Battery Metals Project
26 September	41% Manganese Oxide Rock Chip at Carrara Range Project
17 October	Wollogorang Project Sale Complete



September 2023

Authorised by the board of the Resolution Mineral Ltd

For further information please get in touch with Julian Harvey

Julian Harvey

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Appendix 5B

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

Name of entity

Resolution Minerals Ltd	
ABN	Quarter ended ("current quarter")
99 617 789 732	30 September 2023

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(176)	(176)
	(e) administration and corporate costs	(95)	(95)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	16	16
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	126	126
1.9	Net cash from / (used in) operating activities	(129)	(129)

2.	Ca	sh flows from investing activities		
2.1	Pay	yments to acquire or for:		
	(a)	entities	-	-
	(b)	tenements	-	-
	(c)	property, plant and equipment	(4)	(4)
	(d)	exploration & evaluation	(1,101)	(1,101)
	(e)	investments	-	-
	(f)	other non-current assets	-	

ASX Listing Rules Appendix 5B (17/07/20)

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 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 – Joint Venture receipts	1,645	1,645
2.6	Net cash from / (used in) investing activities	540	540

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
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 – lease payments	(9)	(9)
3.10	Net cash from / (used in) financing activities	(9)	(9)

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	1,309	1,309
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(129)	(129)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	540	540
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(9)	(9)

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	1,711	1,711

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	1,691	1,289
5.2	Call deposits	20	20
5.3	Bank overdrafts	-	-
5.4	Other - restricted cash (joint venture)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	1,711	1,309

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	79
6.2	Aggregate amount of payments to related parties and their associates included in item 2	20
Note: i	if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must includ	de a description of, and an

explanation for, such payments.

7.	Financing facilities Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000	
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.			
	Not applicable			

8.	Estimated cash available for future operating activities	\$A'000	
8.1	Net cash from / (used in) operating activities (item 1.9)	(129)	
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(1,101)	
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(1,230)	
8.4	Cash and cash equivalents at quarter end (item 4.6)	1,711	
8.5	Unused finance facilities available at quarter end (item 7.5)		
8.6	Total available funding (item 8.4 + item 8.5)	1,711	
8.7	Estimated quarters of funding available (item 8.6 divided by item 8.3)	1.4	
	Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3 answer item 8.7 as "N/A"		

Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.

- 8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:
 - 8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer: No. The majority of exploration expenditure included in item 2.1(d) relates to exploration at the Company's Benmara project and is funded via funds from BHP via a joint venture arrangement as disclosed in item 2.5. The expenditure related to the Benmara project will reduce in the current quarter as the drilling program has been completed as announced on 21 September 2023.

8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer: Resolution has undertaken numerous fundraising activities in the past, including, but not limited to, private placements, rights issues and share purchase plans. The Company expects that it will be able to raise further funds if required. Additionally, the Company has sold its Wollogorang Project for \$250,000 as announced on 6 September 2023 and holds other investments that may be sold if required. Finally, the Company has in place an Acuity Capital At-The-Market facility which may be utilised to raise further funds.

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

Answer: Yes. Resolution expects to be able to continue its operations and to meet its business objectives following fundraising activities as detailed above. In the event that funding support is not sufficient to meet planned expenditures, Resolution will reduce corporate spend and other activities as required.

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

Compliance statement

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

Date: 27 October 2023

Authorised by: the Board of the Company

(Name of body or officer authorising release – see note 4)

Notes

- 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.