



21 April 2023

## QUARTERLY ACTIVITIES REPORT Quarter Ended 31 March 2023

### **HIGHLIGHTS:**

- Recommencement of gold exploration in Roberts Hill
- Orientation soil sampling for geochemistry complete and awaiting results
- Geology, geophysics review underway
- Phase 2 Drilling Results from Pardoo Nickel Sulphide Project received
- JORC Mineral Resource Estimate for Highway deposit underway

Mantle Minerals Limited (**ASX:MTL**) ("the Company") is pleased to provide the following report on its activities for the quarter ended 31 March 2023.

### **SUMMARY OF EXPLORATION ACTIVITIES**

#### **Mallina Gold Project**

On 2 March 2023, the Company announced the recommencement of gold exploration at Roberts Hill, part of the Company's Mallina Gold Project.

The Roberts Hill Project is situated within an interpreted gold trend that stretches from Whim Creek and Toweranna gold mines towards the east, including Hemi and potentially beyond. See Figure 1.

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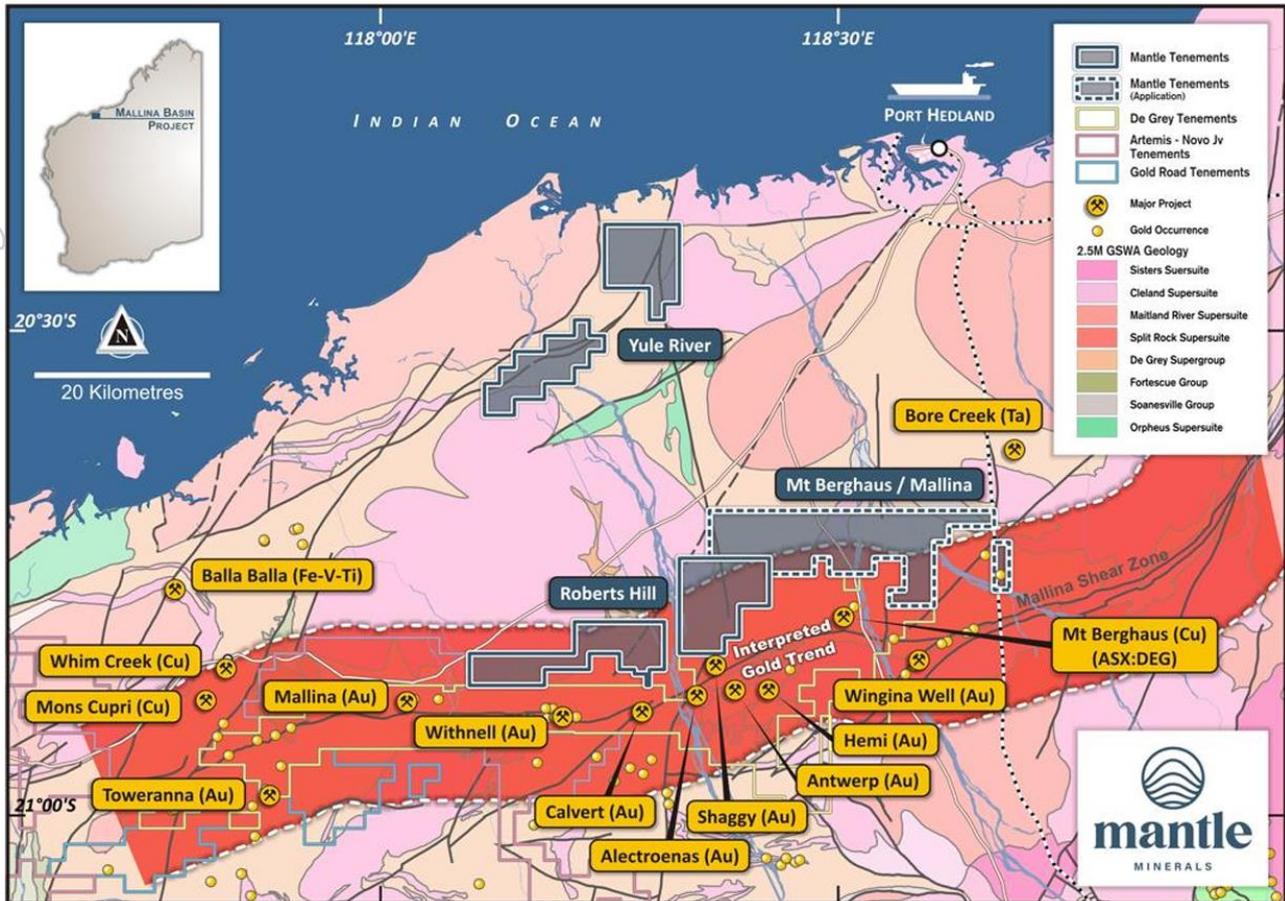


Figure 1: Project location map and proximity to the interpreted gold trend, including the Hemi deposit.

A geochemical review of the 2021 aircore drilling (refer to Company announcement 25 January 2022), confirmed that Mantle encountered Hemi-style mineralisation at Roberts Hill.

Exploration activities at Roberts Hill started with a soil sampling survey, to determine the best geochemistry method, for defining gold anomalies in soils. A regional geology and geophysics study of the Mallina tenements, including Mt Berghaus, is underway to help determine prospective rock types and structures, which might coincide with gold soil anomalies.

More than 750 soil samples were collected from two separate areas, utilizing a 100m x 100m grid spacing, to identify possible gold anomalies in soils above intersections of gold in previous drilling.

The first set of soil samples were taken from a grid spacing of 100m x 100m over a cluster of intersections of gold mineralisation that were found in different settings: in-situ (semi-fresh rock), supergene (weathered rock), and transported (within the concealing sediments). The soil orientation survey was designed to examine the potential

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mobilization of this gold and the related arsenic into the surface soils, to identify anomalies that reflect primary gold mineralisation below.

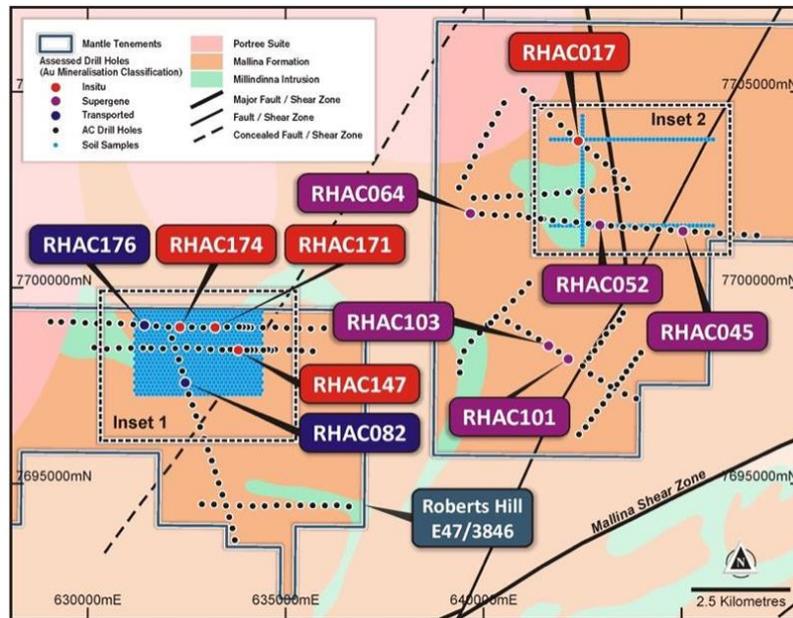


Figure 2: Detail of tenements showing planned soil geochemical survey over two areas of Hemi-style mineralisation, intersected in previous aircore drilling.

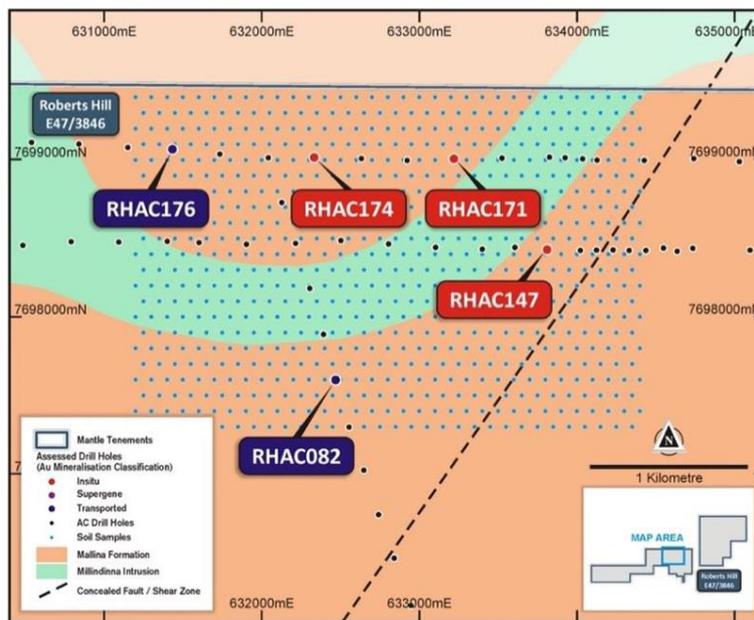


Figure 3: Plan of 100m x 100m soil survey over mineralisation previously drilled.

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The second set of soil sampling lines, spaced at 100m, aim to test soil response to a separate cluster of gold mineralisation. The three sampling lines should be sufficient to determine a geochemical response to potential primary gold mineralisation in this area.

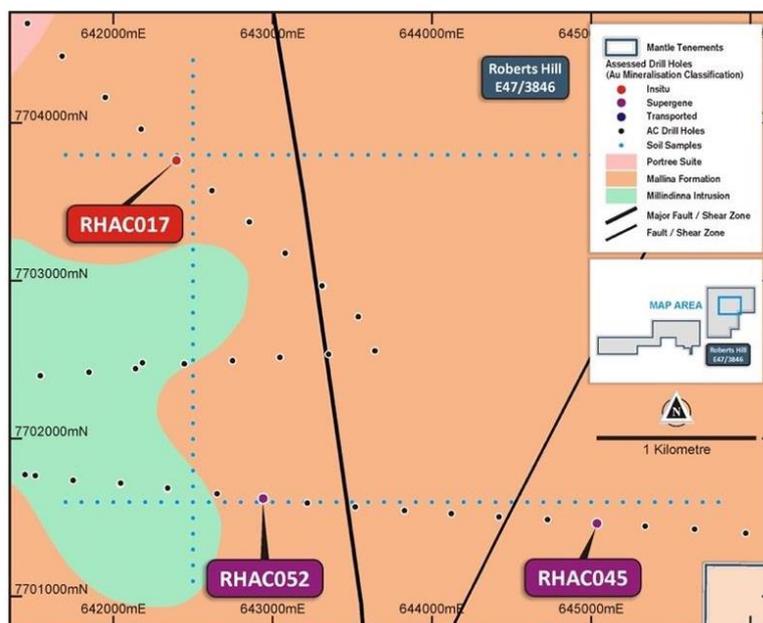


Figure 4: Three orientation soil sampling survey lines with sampling conducted at 100m intervals.

The survey results are expected to be available in June. If the soil sampling results reveal potential mineralisation below, the survey will be extended to cover other parts of the tenements, to identify gold exploration targets that could be drilled later in the year.

### Results from Phase 2 drilling at the Highway Nickel Deposit, Pardoo

During the quarter, the Company announced results from the second phase of drilling at the Highway nickel sulphide Deposit. Wide intercepts, measuring up to 68m and grading at 0.44% Ni and 0.1% Cu, validated the results of the initial drilling phase; and positioned the Company to prepare for a Minerals Resource Estimate under the JORC (2012) code.

Best intercepts include:

- CPRC017 **68m @ 0.44 % Ni** from 57m
- CPRC023 **111m @ 0.37% Ni** from 159m
- CPRC018 **81m @ 0.39 % Ni** from 102m
- CPRC028 **24m @ 0.43 %Ni** from 138m
- CPRC033 **24m @ 0.41 % Ni** from 176m

The mineralisation remains open both along strike and at depth.

On 8 September 2022, the Company announced the completion of a Reverse Circulation (RC) Drilling program at the Highway Deposit, comprising 20 holes and measuring 4,157m. The purpose of this program was to infill existing drilling, increase confidence in the deposit's geological and grade continuity, and potentially convert a significant portion of the mineralization to JORC (2012) Indicated Resource status.

In Figure 5, the resource is shown in a plan view that showcases the Phase 2 Program, the closer drill hole spacing between previous drilling lines, and several notable intersections. The distribution of these intersections revealed that the mineralisation pinches and swells along the strike, which is typical of nickel deposits of this kind. Hole CPRC017 (68m @0.44% Ni from 57m), along with previous drilling, confirmed that the mineralisation is thickening towards the southern boundaries of the present envelope of mineralisation. This indicated significant potential for additional mineralisation along strike towards the south, while there are also possibilities for extensions towards the north.

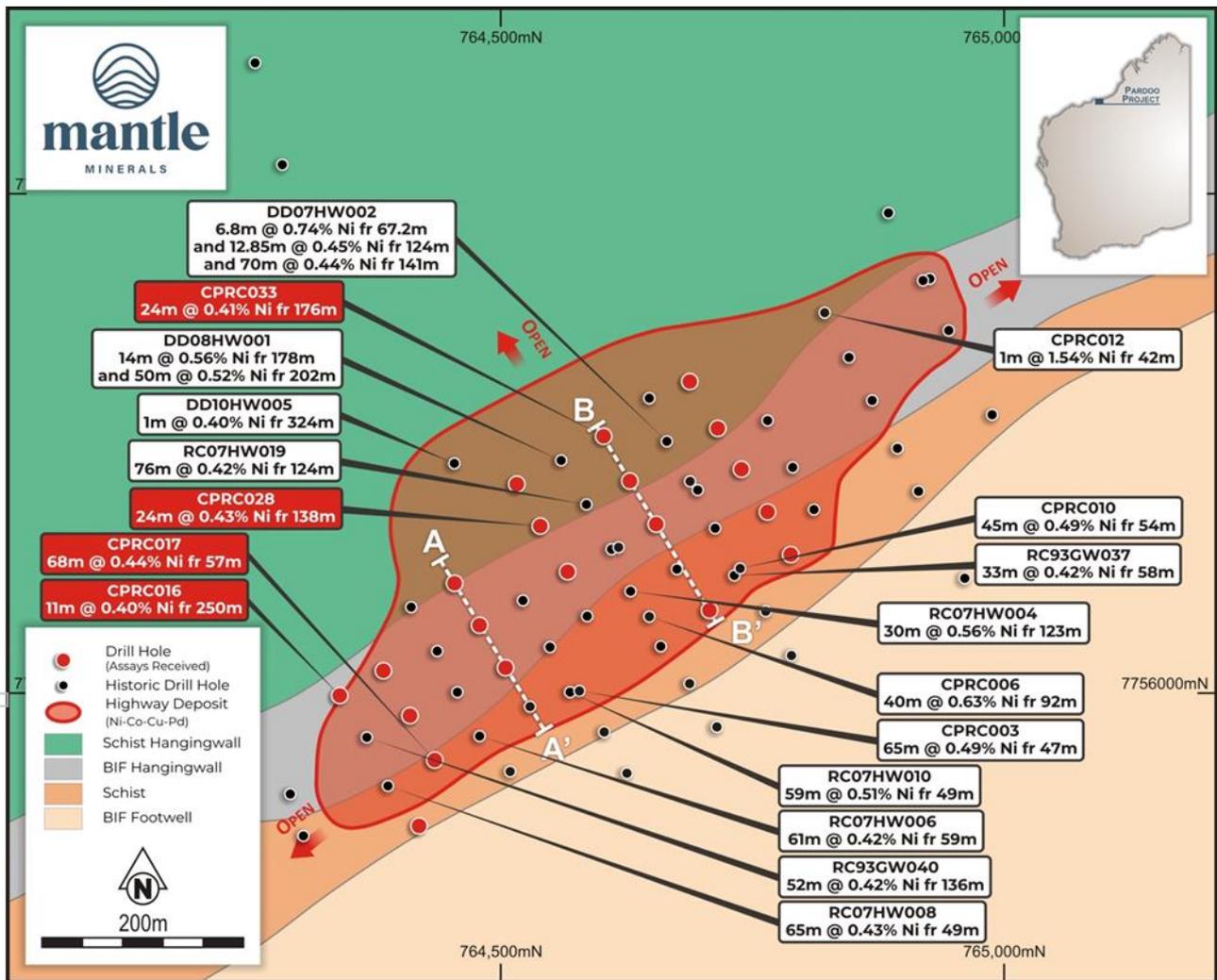


Figure 5: Plan view of Highway Deposit showing some of the significant intercepts from phase 2 drilling in red, within the interpreted envelope of mineralisation (Coordinates: MGA94, Zone51).

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Mantle completed geological mapping for the Highway deposit encompassing the new drilling intersections, and proceeded with a JORC (2012) Mineral Resource Estimate to be completed during the quarter.

In addition, the Company reinterpreted surface and down hole geophysics to identify additional nickel sulphide mineralisation and hopefully higher grades along the strike from the Highway deposit.

### **Events After the end of the quarter**

On 18 April 2023, the Company advised that it had received commitments to raise \$1,703,681 via a placement from sophisticated and professional investors and the Directors. Following the placement, the Company anticipates it will have a cash balance of over \$3.2 million, for exploration for gold in the Mallina Basin.

### **Additional ASX Information**

#### **Summary of Exploration Expenditure (ASX Listing Rule 5.3.1)**

In accordance with Listing Rule 5.3.1, the Company advises the cash outflows on its mining exploration activities reported in 1.2(1) of its Appendix 5B for the March 2023 quarter and detailed above were, Pardoo \$76,377 and Mallina Basin \$25,731.

#### **Mining Production and Development (ASX Listing Rule 5.3.2)**

There were no substantive mining production and development activities during the quarter.

#### **Payment to Related Parties (ASX Listing Rule 5.3.5)**

The Company advises the payments in section 6.1 of Appendix 5B for the quarter related to director, company secretarial and accounting fees.

#### **The mining tenement interests acquired or relinquished during the quarter and their location**

Not applicable.

This announcement has been authorised for release by the Mantle Minerals Limited Board of Directors.

**For Further Information, please contact:**

**Nick Poll**

Executive Chairman  
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**Johnathon Busing**

Non-Executive Director/Company Secretary  
+61 8 6165 8858

**Competent Person Statement**

The information contained in this report to exploration results relates to information previously announced by the Company and the Company is not aware of any new information which materially affects the information included in those announcements. The information was compiled or reviewed by Mr Nick Poll. Mr Poll is the Company's Executive Chairman. Mr Poll has sufficient experience of relevance to the styles of mineralization and the types of deposits under investigation, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the Joint Ore Reserve Committee (JORC) "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves".

**Forward-Looking Statement Disclaimer**

This announcement contains forward-looking statements that involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions, or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions, and strategies described in this announcement. No obligation is assumed to update forward-looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.

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## **CORPORATE INFORMATION**

### **Board**

Nick Poll	Executive Chairman
David Greenwood	Non-Executive Director
Johnathon Busing	Non-Executive Director/Company Secretary

### **Registered Office and Principal Place of Business**

Ground Floor  
168 Stirling Highway  
Nedlands WA 6009  
Telephone: +61 8 6102 2656

### **Forward Shareholder Enquiries to**

Advanced Share Registry Pty Ltd  
110 Stirling Highway, Nedlands WA 6009  
Telephone: +61 8 9389 8033

### **Issued Share Capital**

As at the date of this report, the total fully paid ordinary shares on issue were 5,345,605,074.

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## Appendix 5B

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

Name of entity

MANTLE MINERALS LTD

ABN

42 082 593 235

Quarter ended ("current quarter")

31 March 2023

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
<b>1. Cash flows from operating activities</b>		
1.1 Receipts from customers		
1.2 Payments for		
(a) exploration & evaluation	(102)	(1,774)
(b) development	-	-
(c) production	-	-
(d) staff costs	(73)	(277)
(e) administration and corporate costs	(145)	(579)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	3	3
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other (GST Refund)	62	245
<b>1.9 Net cash from / (used in) operating activities</b>	<b>(255)</b>	<b>(2,383)</b>
<b>2. Cash flows from investing activities</b>		
2.1 Payments to acquire or for:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	-	(3)
(d) exploration & evaluation	-	-
(e) investments	-	-
(f) other non-current assets	-	-

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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	-	<b>(3)</b>
<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	2,718
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	-	(101)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	-	<b>2,617</b>
<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	1,822	1,335
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(255)	(2,383)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	-	(3)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	2,617

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

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	<b>Cash and cash equivalents at end of period</b>	<b>1,566</b>	<b>1,566</b>

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	1,566	1,822
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>1,566</b>	<b>1,822</b>

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	107
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

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

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

<b>7. Financing facilities</b>	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity.</i>		
<i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
7.1	-	-
7.2	-	-
7.3	-	-
7.4	-	-
7.5	<b>Unused financing facilities available at quarter end</b>	
		-
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.	

<b>8. Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1	(255)
8.2	-
8.3	(255)
8.4	1,566
8.5	-
8.6	1,566
8.7	(6.135)
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8	If item 8.7 is less than 2 quarters, please provide answers to the following questions:
8.8.1	Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?
	Answer:
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:

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

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

Answer:

*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: 21 April 2023

Authorised by: The Board of Mantle Minerals Limited

### Notes

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

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