

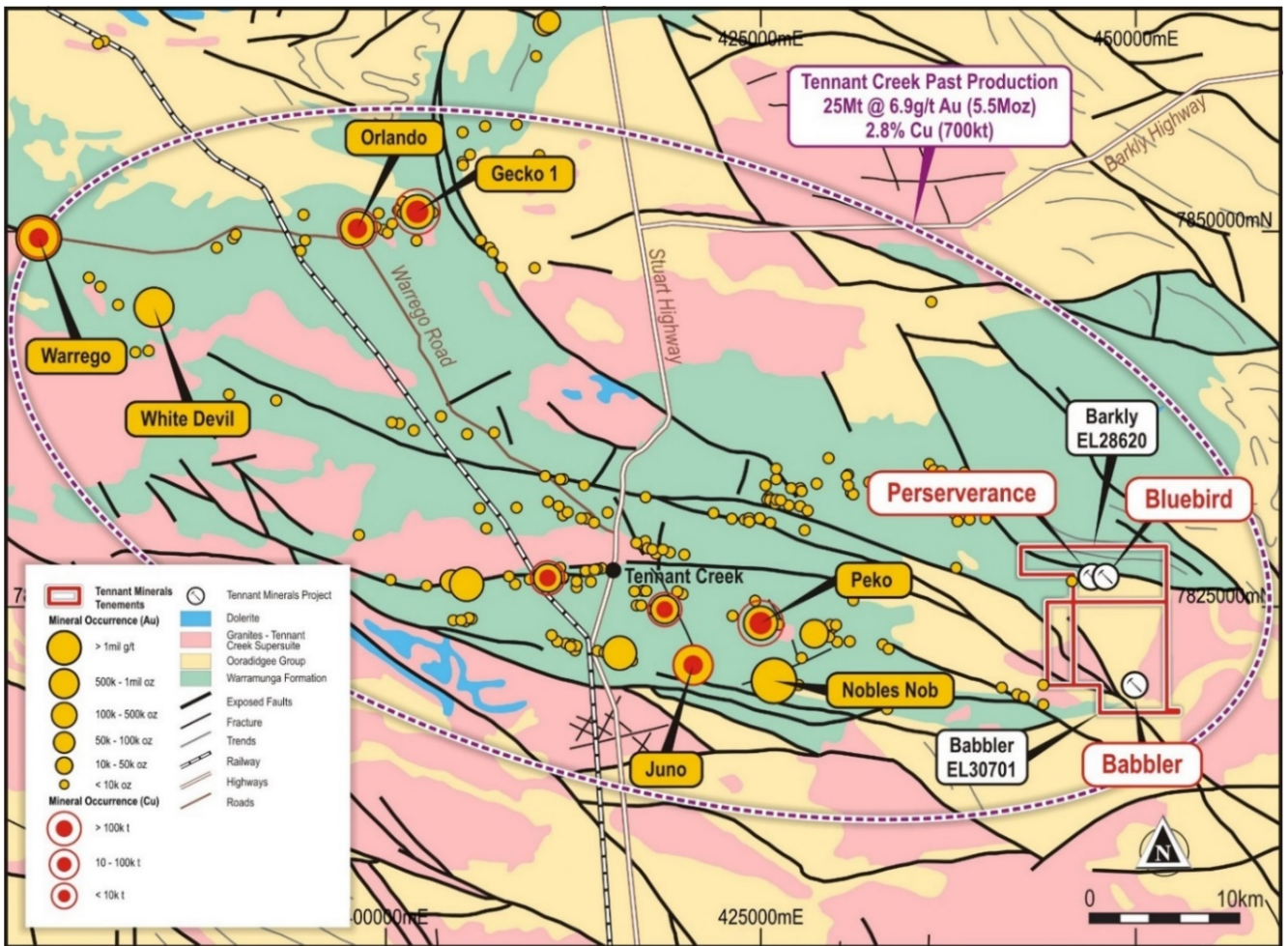
## Quarterly Activities Report

### *For the quarter ended 31 March 2023*

Tennant Minerals Limited (ASX: TMS) (“Tennant” or the “Company”) is pleased to report its activities for the quarter ended 31 March 2023 (the **Quarter**), focussed on the Barkly Project and the Bluebird high-grade copper-gold discovery (Bluebird) 40km east of Tennant Creek in the Northern Territory (see Figure 1).

#### HIGHLIGHTS

- Exceptional results received from diamond drilling at Bluebird were reported during the March quarter, including:
  - **30.5m @ 6.2% Cu & 6.8 g/t Au from 153.6m (downhole) in BBDD018<sup>1</sup>**
    - including 17.8m @ 5.2% Cu & 11.5 g/t Au from 153.6m, and,
    - including 16.1m @ 10.5% Cu & 0.44 g/t Au from 164.9m.
  - **24m @ 0.66% Cu & 11.8 g/t Au from 161m (downhole) in BBDD0021<sup>2</sup>**
    - including 5.7m @ 0.74% Cu & 49.3 g/t Au from 161m, and,
    - including 4.97m @ 1.06% Cu & 23.9 g/t Au from 165.66m
  - **16.45m @ 3.05% Cu & 2.31 g/t Au from 203.65m (downhole), BBDD0025<sup>3</sup>**
    - incl. 3.8m @ 0.87% Cu & 9.08 g/t Au from 203.65m incl. 1.03m @ 28.3 g/t Au
    - & incl. 3.4m @ 8.22% Cu & 0.16 g/t Au from 216.7m incl. 1.1m @ 22.6% Cu
- The new results, which include bonanza gold grades, have extended the thick, dilational, high-grade Bluebird gold and copper zone to the west and at depth. This mineralised zone has now been defined by drilling across a 240m strike-length and remains completely open to the east and west, as well as at depth (see longitudinal projection, Figure 2).
- Drilling is expected to recommence at Bluebird in the June quarter to extend the discovery along strike and at depth, in order to define the resource potential of the high-grade copper-gold deposit.
- The Company also announced that initial drill testing of three key targets, outside Bluebird, within the highly prospective 2.5km Bluebird-Perseverance Target Zone, had intersected mineralised and brecciated fault structures in all three target areas<sup>4</sup>. These are interpreted to lie above iron-stone hosted copper-gold targets previously identified by gravity, drone-magnetic and Induced Polarisation (IP) low resistivity geophysics.
- A follow up IP survey is in progress, testing for extensions to the low-resistivity anomaly associated with the Bluebird mineralisation on 80m step-out sections to the west and east of the discovery, extending to other priority targets within the 2.5km Bluebird-Perseverance Corridor.
- During the quarter, the Company completed an oversubscribed equity capital raising of \$5 million at \$0.035 per share to fund key drilling programs and development studies at the Barkly Project<sup>5</sup>.



**Figure 1: Location of the Barkly Project and major historical mines in the Tennant Creek Mineral Field**

## BARKLY PROJECT

### Bluebird Deposit

The announcements during the quarter were dominated by continued spectacular results from drilling at the Bluebird deposit (including **30.5m @ 6.2% Cu and 6.8 g/t Au** from 153.6m (downhole)<sup>1</sup> in BBDD018. This intersection is approximately true-width (see Figure 3) and includes primary high-grade hangingwall gold zone (including visible gold) of **17.8m @ 5.2% Cu and 11.5 g/t Au** from 153.6m and a zone containing massive chalcopyrite (see Image 1) and chalcocite of **16.1m @ 10.5% Cu and 0.44 g/t Au** from 164.9m.

Further high-grade gold results were produced from drilling to the west of BBDD0018 which included a bonanza gold intersection in BBDD0021 of **5.7m @ 0.74% Cu and 49.3 g/t Au**<sup>2</sup> within an overall intersection of **24m @ 0.66% Cu, 11.8 g/t Au including 5.7m @ 0.74% Cu and 49.3 g/t Au**<sup>2</sup> (see Figure 2).

These results support the previous exceptional intersections announced during 2022 which included the BBDD0012 intersection of **63m @ 2.1% Cu, 4.6g/t Au including 27.55m @ 3.6% Cu and 10.0 g/t Au** from 160.45m<sup>6</sup>, confirming Bluebird as a significant discovery.

These high-grade intersections occur within a thick and shallow plunging dilational zone, which is open along strike to the east and west, where it becomes shallower. The Bluebird discovery is now over 240m strike-length, extends to over 250m below surface and remains open in all directions (Figure 2).

The upcoming drill program plans to extend the shallow plunging, high-grade gold-copper zone and test below 250m depth to expand the mineral resource potential of the Bluebird discovery.



The Company plans to undertake a Mineral Resource Estimate at Bluebird during 2023, and if warranted, move the project into the development studies phase thereafter.

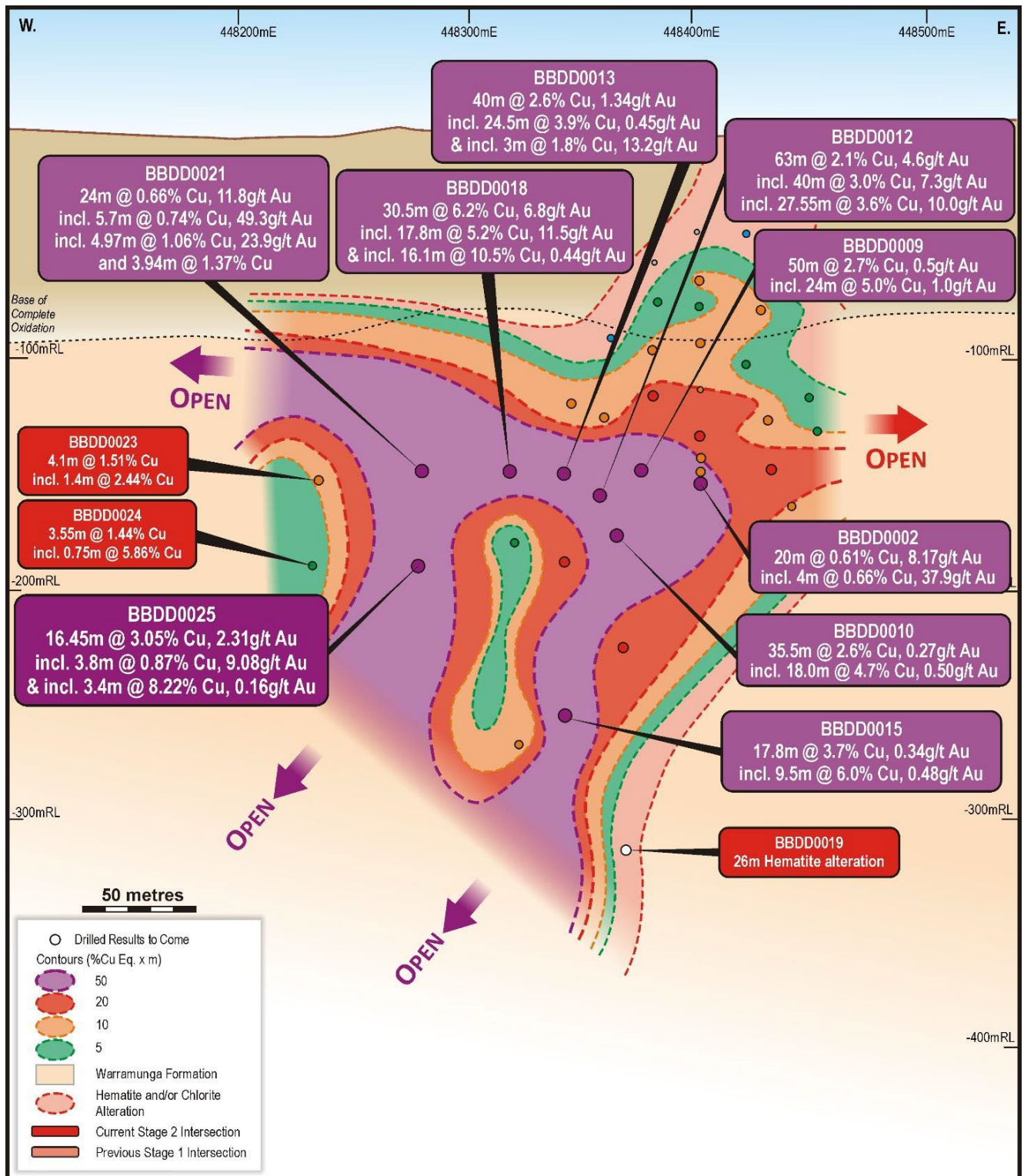


Figure 2: Bluebird discovery, longitudinal projection showing exceptional Cu-Au intersections

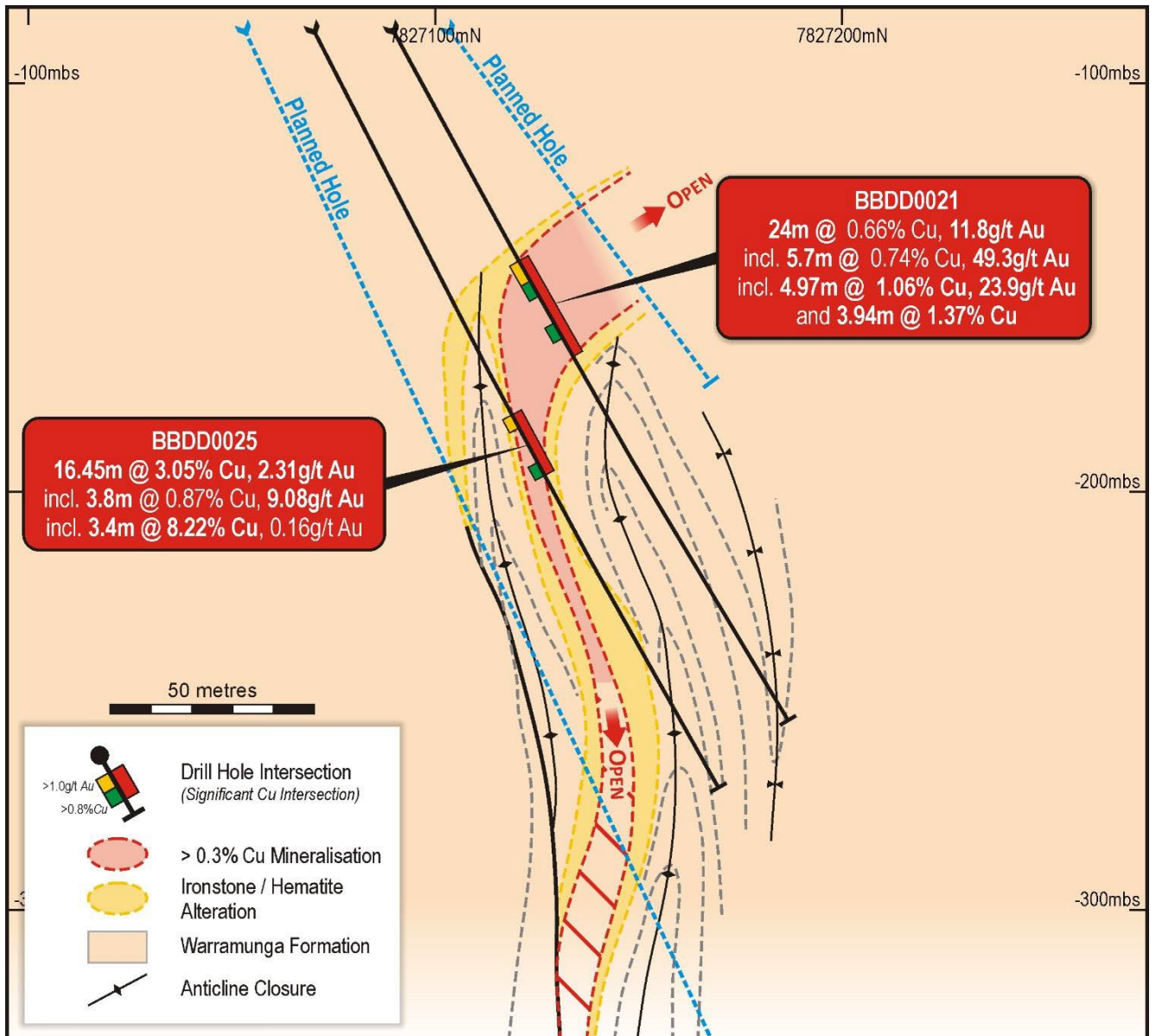


Figure 3: Bluebird cross section 448,280mE showing high-grade gold-copper intersections in BBDD0021 & 0025.

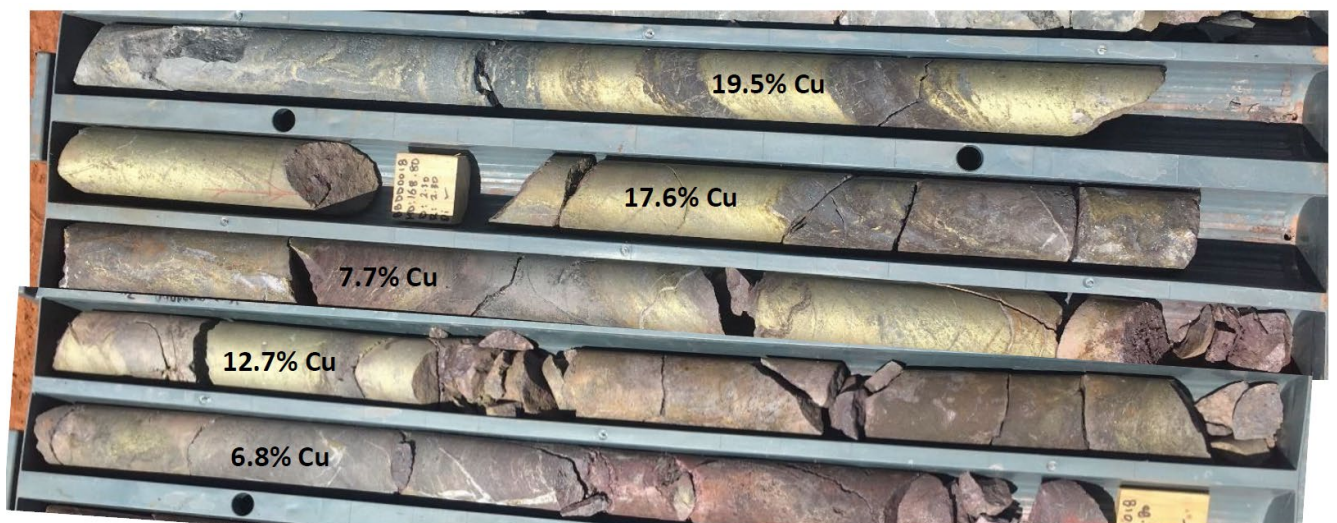


Image 1: Massive copper-sulphides in BBDD0018, part of very high-grade copper intersection: 16.1m @ 10.5% Cu

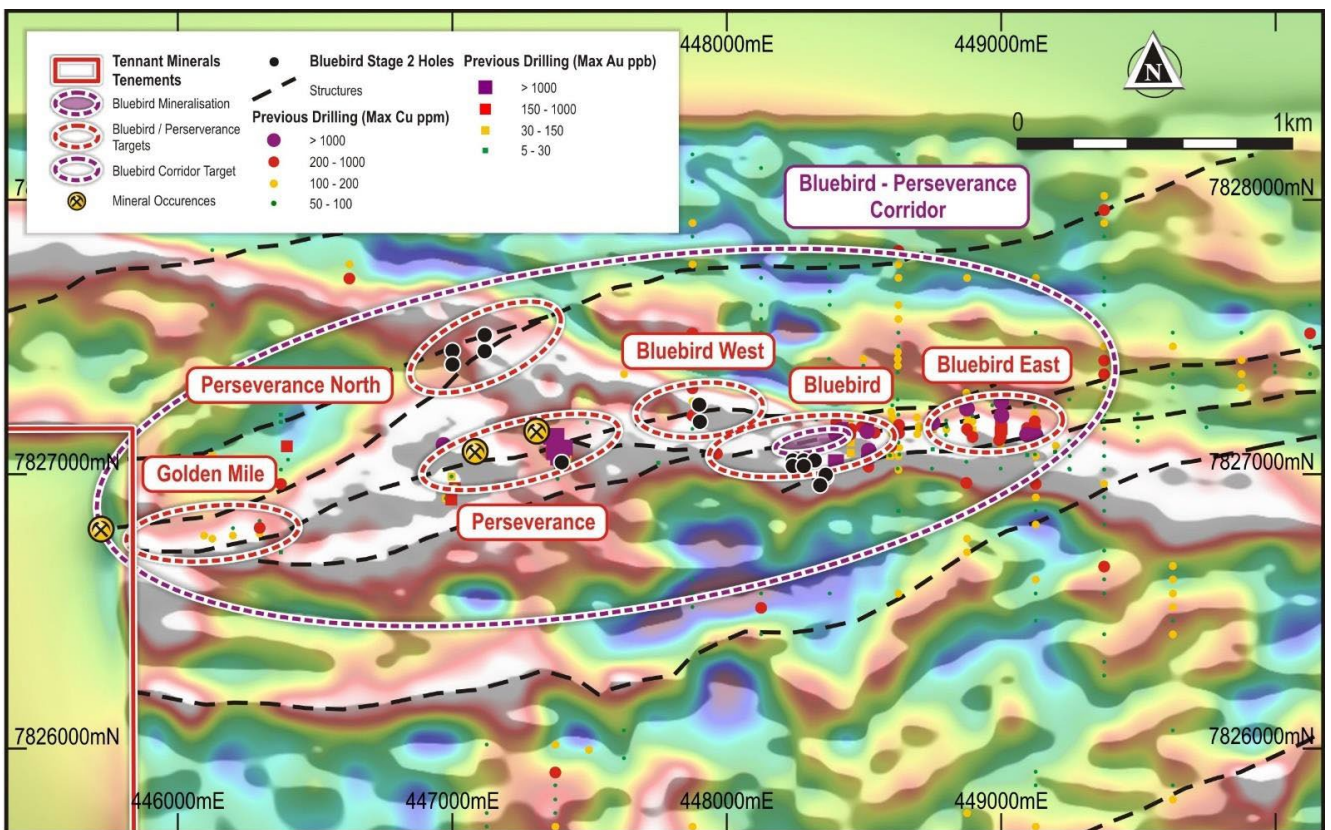


## Bluebird-Perseverance Corridor

The Bluebird discovery occurs within the intersection of ironstones and a regional D2 ENE-WSW trending structure. It was discovered by RAB drilling into an area of anomalous subcrop/outcrop. RAB drilling to the west of Bluebird was not considered effective due to increased cover.

Gravity modelling of the 2.5km corridor between Bluebird and Perseverance highlighted the potential for repetitions of Bluebird-like mineralisation in similar structural positions. Follow up magnetics and Induced Polarisation (IP) surveys confirmed the potential for future mineral discoveries in this corridor.

During the Quarter, the Company announced the results of initial drill testing of three key targets, outside Bluebird, within the highly prospective 2.5km Bluebird-Perseverance Target Zone. The drilling intersected mineralised and brecciated fault structures in all three target areas. These are interpreted to lie above ironstone hosted copper-gold targets previously identified by gravity, magnetic and IP low resistivity geophysics.



**Figure 4: Bluebird-Perseverance zone bouguer gravity with structures & gravity-magnetic-IP resistivity targets.**

An IP survey completed during the December Quarter highlighted a distinct low-resistivity (high conductivity) response, corresponding with the Bluebird mineralisation on cross section 448,360mE which includes the BBDD0012 intersection of **63m @ 2.1% Cu, 4.6g/t Au<sup>6</sup>** and the IP low-resistivity zone shows potential continuity below 400m depth.

At the Perseverance North target (Figure 4), a similar but potentially deeper low-resistivity (high conductivity) response was detected. Drilling intersected major fault zones with hematite-breccia (see Image 2 below) and mineralisation above a strong IP low-resistivity (high-conductivity) anomaly. This target is analogous to the IP low-resistivity zone associated with the Bluebird discovery. Further drilling is planned to test the deeper target on this section where the structure is interpreted to intersect the ironstone.



**Image 2: Mineralised haematite-breccia in fault zone at Perseverance North, PNDD002, 235 - 236m downhole**

At the Perseverance target (Figure 4), two drillholes testing below the historic high-grade gold mine workings (where previous results include 3m @ 50.0 g/t Au in PERC0153 and 3m @ 43.2 g/t Au in PERC001)<sup>7</sup> intersected the hanging wall structure associated with the gold mineralisation before passing into a 20-40m zone with hematite alteration and potentially copper mineralisation.

At the Bluebird West target, haematite altered mineralised structures have also been intersected, associated with an IP low-resistivity (high-conductivity) anomaly analogous to the IP low resistivity zone associated with the Bluebird discovery.

New IP surveys will focus on extensions of these key targets within the Bluebird-Perseverance Target Zone as well as extensions of the Bluebird mineralisation to the east and west. A fresh drilling program will commence as soon as possible to test for high-grade copper-gold mineralisation within these three new highly prospective target zones.

### **JUNE QUARTER PLANNED ACTIVITIES**

The next drilling program at Bluebird will commence as soon as possible following the wet season (expected late-April/early May). Drilling is planned to test immediate extensions of the high-grade copper and gold zone to the west and at shallow depth from the previous exceptional intersections in BBDD0018 (**30.5m @ 6.2% Cu, 6.8 g/t Au**)<sup>1</sup> and BBDD0021 (**24m @ 0.66% Cu, 11.8 g/t Au**)<sup>2</sup> (see Figure 1).

Deeper drilling is also planned to test below the high-grade copper and gold intersection in BBDD0025 (**16.45m @ 3.05% Cu, 2.31 g/t Au**) and below the previous intersection in BBDD0015 (**17.8m @ 3.7% Cu, 0.34g/t Au**)<sup>4</sup> for extensions of the high-grade zone as well as testing potential for a repeat of the thick dilational zone at depth (see Figure 1 and Figure 2).

Following the success of this initial IP program, a further dipole-dipole IP survey is in progress. The program will include 80m spaced IP lines that step out east and west of Bluebird, to locate extensions and/or repeats of the Bluebird mineralisation for follow-up drill testing. This will be followed by a series of 160m spaced lines across the Bluebird-Perseverance Corridor (Figure 4), designed to map the potentially mineralised structures. The IP program will refine targets ahead of further drilling within the Bluebird-Perseverance Corridor.

Drilling is also planned on the Babblers tenement, EL 30701 (Figure 1), to test drilling targets within the underlying Warramunga Formation for high-grade copper-gold deposits. The Company was granted \$66,000 funding under the 2022 NT Governments' Geophysics and Drilling Collaborations program whereby 50% funding of the direct diamond drill costs of an exploration hole. The drill-targeting will be refined following processing and modelling of detailed gravity data collected during the previous period.

## CORPORATE

### Cash Position

Tennant Minerals expenditure during the Quarter was almost entirely on exploration activities of \$1.135 million. Tennant completed an over-subscribed placement to sophisticated and professional investors raising \$5 million before costs as announced to ASX on 15<sup>th</sup> February 2023. Funds raised are to fund key drilling programs and development studies at the Barkly project, including the Bluebird high-grade, copper-gold discovery. Payments to related parties of the entity and their associates was limited to payment of director fees, superannuation and consulting fees totalling \$44k. The cash position of the Company as at 31 March 2023 was \$5.461 million (see attached Appendix 5B Quarterly Cash Flow report).

## REFERENCES

- <sup>1</sup> 08/02/23. Tennant Minerals (ASX.TMS): "Spectacular Drill Hit of 30.5m @ 6.2% Copper and 6.8g/t Gold at Bluebird"
- <sup>2</sup> 07/03/23. Tennant Minerals (ASX.TMS): "Bonanza Bluebird Gold Results Including 5.7m @ 49.3g/t Au"
- <sup>3</sup> 20/03/23. Tennant Minerals (ASX.TMS): "More Exceptional Results up to 28.3g/t Gold and 22.6% Copper from Drilling at the Bluebird Discovery".
- <sup>4</sup> 24/01/23. Tennant Minerals (ASX.TMS): "Highly Prospective Mineralised Structures Intersected in Bluebird-Perseverance Corridor".
- <sup>5</sup> 15/02/23. Tennant Minerals (ASX.TMS): "Tennant Completes Successful \$5M Capital Raising"
- <sup>6</sup> 17/08/2022. Tennant Minerals (ASX. TMS): "Bonanza 63m@ 2.1% Copper and 4.6 g/t Gold Intersection at Bluebird".
- <sup>7</sup> Feb 1995, Posgold. Final Report for Exploration Licence 7693, 2/6/92 to 25/11/94. NTGS Report CR19950192.

\*\*\*ENDS\*\*\*

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## CAUTIONARY STATEMENT REGARDING FORWARD LOOKING INFORMATION

This release contains forward-looking statements concerning Tennant Minerals Ltd. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes.

Forward looking statements in this release are based on the company's beliefs, opinions and estimates of Tennant Minerals Ltd as of the dates the forward-looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.

## COMPETENT PERSONS DECLARATION

The information in this report that relates to exploration results is based on information compiled and/or reviewed by Mr Jonathon Dugdale. Mr Dugdale is the Technical Advisor to Tennant Minerals Ltd and a Fellow of the Australian Institute of Mining and Metallurgy ('FAusIMM'). Mr Dugdale has sufficient experience, including over 35 years' experience in exploration, resource evaluation, mine geology, development studies and finance, relevant to the style of mineralisation and type of deposits under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee ('JORC') Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. Mr Dugdale consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

## ASX LISTING RULES COMPLIANCE

In preparing this announcement the Company has relied on the announcements previously made by the Company as listed under "References". The Company confirms that it is not aware of any new information or data that materially affects those announcements previously made, or that would materially affect the Company from relying on those announcements for the purpose of this announcement.

## SCHEDULE OF TENEMENTS

Tenement ID	Type	Status	Holder	Grant Date	Expiry Date	Area (km <sup>2</sup> )	TMS Interest
EL28620	Exploration	Active	Colour Minerals Pty Ltd	16 Dec 11	15 Dec 23	39.16	100%
EL30701	Exploration	Active	Colour Minerals Pty Ltd	20 Aug 15	19 Aug 23	42.6	100%



# Appendix 5B

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

Name of entity

**TENNANT MINERALS LIMITED (ASX: TMS)**

ABN

**25 086 471 007**

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 and evaluation (if expensed)	(1,135)	(3,528)
(b) development	-	-
(c) production	-	-
(d) staff costs	(44)	(135)
(e) administration and corporate costs	(45)	(270)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	9	20
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)	-	-
<b>1.9 Net cash from / (used in) operating activities</b>	<b>(1,215)</b>	<b>(3,913)</b>
<b>2. Cash flows from investing activities</b>		
2.1 Payments to acquire:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	-	-
(d) exploration & evaluation (if capitalised)	-	-
(e) investments	-	-
(f) other non-current assets	-	-
2.2 Proceeds from 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 Net cash from / (used in) investing activities</b>	<b>-</b>	<b>-</b>

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

<b>Consolidated statement of cash flows</b>	<b>Current quarter \$A'000</b>	<b>Year to date (9 Months) \$A'000</b>
<b>3. Cash flows from financing activities</b>		
3.1 Proceeds from issues of equity securities (excluding convertible debt securities)	5,000	5,000
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	(332)	(332)
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 Net cash from / (used in) financing activities</b>	<b>4,668</b>	<b>4,668</b>
<b>4. Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1 Cash and cash equivalents at beginning of period	2,008	4,706
4.2 Net cash from / (used in) operating activities (item 1.9 above)	(1,215)	(3,913)
4.3 Net cash from / (used in) investing activities (item 2.6 above)	-	-
4.4 Net cash from / (used in) financing activities (item 3.10 above)	4,668	4,668
4.5 Effect of movement in exchange rates on cash held	-	-
<b>4.6 Cash and cash equivalents at end of period</b>	<b>5,461</b>	<b>5,461</b>
<b>5. Reconciliation of cash and cash equivalents</b> at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	<b>Current quarter \$A'000</b>	<b>Previous quarter \$A'000</b>
5.1 Bank balances	5,461	2,008
5.2 Call deposits	-	-
5.3 Bank overdrafts	-	-
5.4 Other (provide details)	-	-
<b>5.5 Cash and cash equivalents at end of quarter</b> (should equal item 4.6 above)	<b>5,461</b>	<b>2,008</b>
<b>6. Payments to related parties of the entity and their associates</b>	<b>Current quarter \$A'000</b>	
6.1 Aggregate amount of payments to related parties and their associates included in item 1	43	
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 and 6.2 your quarterly activity report must include a description of, and an explanation for, such payments		
Directors' salary, fees, superannuation, consultancy, and reimbursements, related to the current and prior quarters.		

## 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>
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.		
7.1 Loan facilities	-	-
7.2 Credit standby arrangements	-	-
7.3 Other (please specify)	-	-
<b>7.4 Total financing facilities</b>	-	-

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.

<b>8. Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1 Net cash from / (used in) operating activities (Item 1.9)	(1,215)
8.2 Capitalised exploration & evaluation (Item 2.1(d))	-
<b>8.3 Total relevant outgoings</b> (Item 8.1 + Item 8.2)	<b>(1,215)</b>
8.4 Cash and cash equivalents at quarter end (Item 4.6)	5,461
8.5 Unused finance facilities available at quarter end (Item 7.5)	-
<b>8.6 Total available funding</b> (Item 8.4 + Item 8.5)	<b>5,461</b>
<b>8.7 Estimated quarters of funding available</b> (Item 8.6 divided by Item 8.3)	<b>4.5</b>

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:

1. Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer:

N/A

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

Answer:

N/A

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

Answer:

N/A



**Compliance statement**

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

Date: Friday, 28 April 2023

Authorised by: By the Board of Directors  
(Name of body or officer authorising release – see note 4)

**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 – e.g. 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.