Release 21 July 2022

# **June 2022 Quarterly Report**

#### **HIGHLIGHTS**

## **Tate Project Tenement Acquisition**

- The area is prospective for intrusion related nickel, copper, and PGE's.
- The tenement covers 213 km2 and encompasses the region between DKM's northernmost tenement and Cannon Resources (ASX:CNR) southern-most tenement
- The tenement represents a strategic position that covers the Hootanui Fault the boundary between the Kurnalpi and Burtville Terranes
- Two large mafic intrusions have been identified from regional scale aeromagnetics.
  - o One intrusion is **6km by 1.2km** and the other is **2.2km by 1.2km**
  - interpreted to be much younger than the surrounding granite and greenstones
  - o intruding along the margin of two major geological terranes
  - Both intrusions are anomalous in nickel and copper

#### **Duketon Project**

- Exploration continues at Duketon North
  - The large ground electro-magnetic (EM) survey at Duketon North continues with Phase 2 of the MLEM commenced
  - RC Drilling continued in Duketon North area, with drilling focussed at the Camp Oven area

#### Corporate

- Review of development options for Rosie and C2 Resources continuing.
- Cash and liquids at 30 June 2022 of \$18.4 million

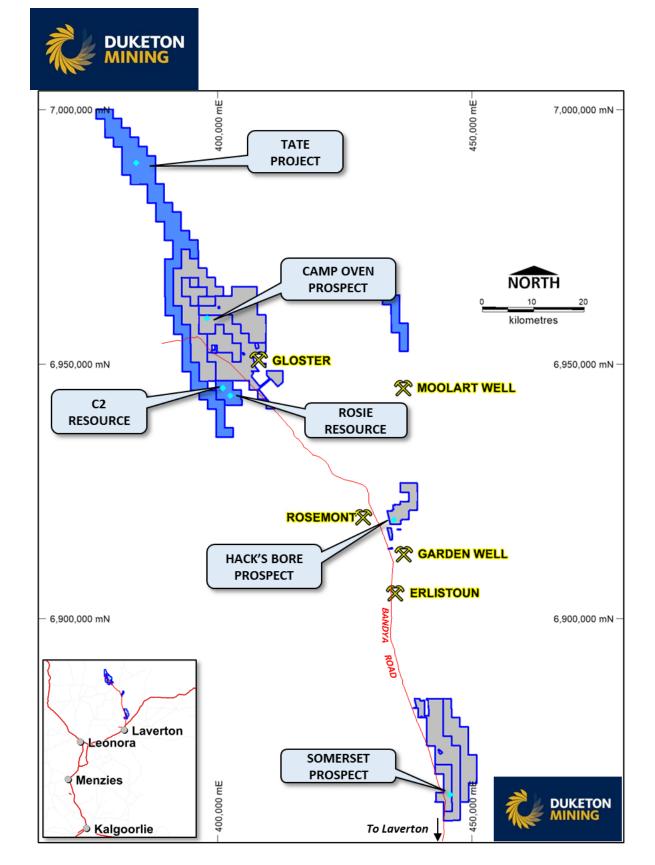


Figure 1: Plan View of the Duketon area showing Nickel Resources, Prospects and Tenements.



The "Tate" tenement (E38/3658) was granted during the quarter. Tate is a large exploration licence north of the Duketon Greenstone Belt that is prospective for intrusion related nickel, copper, and PGE's. The tenement offers belt-scale exploration opportunities in addition to the Duketon Project that hosts the Rosie and C2 deposits.

The tenement represents a strategic position covering the interpreted Hootanui Fault that is the boundary between two major geological terranes - the Kurnalpi and Burtville Terranes. It is a low-cost entry, prospective for mafic related nickel, copper, PGE deposits.

The tenement covers 213 km<sup>2</sup> and encompasses the area between DKMs northern-most tenement and Cannon Resources (ASX:CNR) Fisher East Project southern-most tenement.

Two large, mafic intrusions have been identified in the data package. One is approximately 6km by 1.2km and the other is 2.2km by 1.2km.

A data review has shown there is a single historical BHP drill hole (1994) into the northern most intrusive drilled to 25 metres depth. This was logged as mafic rocks from 8m and the end of hole assay was reported to include 143 ppm nickel, 108 ppm copper, 86 ppm zinc, 2,710 ppm manganese and 9.9% iron. This is the only hole identified as intersecting either intrusion.

More recently (2013), a regional auger geochemical program has been completed covering this area along the interpretated position of the Hootanui Fault. No significant base metal anomalies were detected but previous drilling has shown a significant thickness of transported material possibly rendering the geochemical program ineffective.



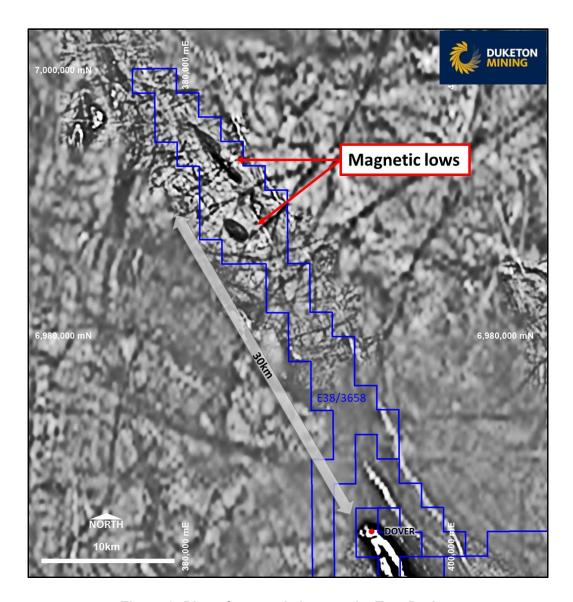


Figure 2: Plan of magnetic lows at the Tate Project



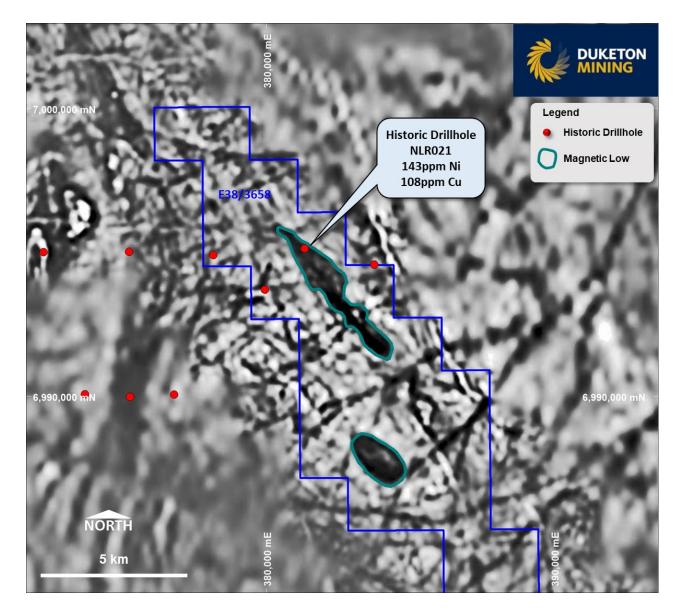


Figure 3: Plan of historic drilling and magnetic lows at the Tate Project

This Project represents an early-mover opportunity leveraging off an alternative geological model for the area.



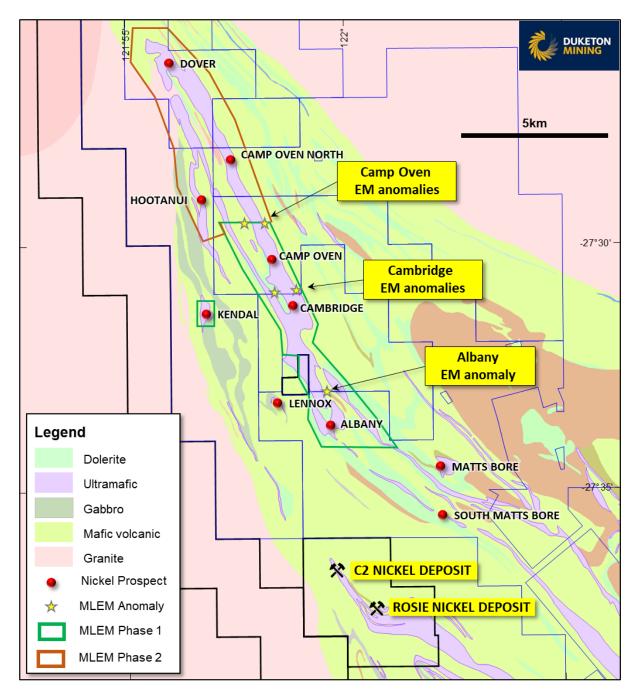


Figure 4: Duketon North Geology, Prospects and location of MLEM anomalies.



# **RC Drilling at Duketon North**

Drilling continued at Duketon North during the quarter with over 6,000m of RC and aircore drilling completed at the Camp Oven, Camp Oven North, Cambridge and Albany Prospects.

#### **Multiple EM Anomalies at Duketon North**

First order anomalies have been identified at Cambridge, Albany and Camp Oven. The anomalies at Camp Oven are on the northern most line of the Phase 1 program and remain open to the north. The second phase of MLEM will cover the area north of Camp Oven up to Dover.

Two discreet mid time anomalies were identified at Cambridge. They are both located on the eastern edge of the ultramafic. There is no historic drilling in the area. Historic auger geochemistry highlights the ultramafic package with plus 1000ppm Ni and plus 100ppm Cu (see Figures 2 and 3).

At Albany, a strong, late time anomaly is modelled at 2000 Siemens. The area has a thin layer of transported cover and there is no surface geochemistry. Historic drilling over the top of the anomaly was only assayed for gold but logging has recorded ultramafic within the drill holes and recent inspection of drill spoils has identified a sheared ultramafic 200m to the west (see Figures 2 and 4).

At Camp Oven two mid to late time anomalies were detected on the last line of the survey. One along the eastern edge of the ultramafic, the other just off the western edge. Anomalous rock chip geochemistry nearby is up to 0.86% Ni and 1.92% Cu (see Figures 2 and 5).

Program of Works approvals all granted during the guarter.



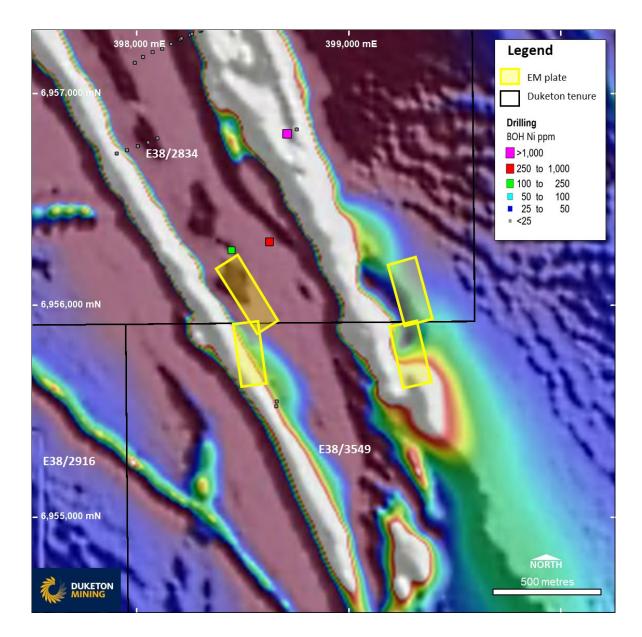


Figure 5: Cambridge Prospect showing MLEM anomalies and historic drilling over magnetics



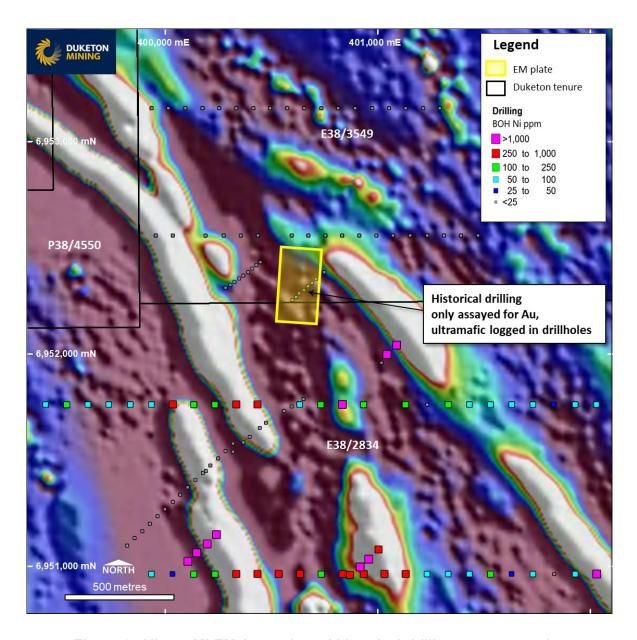


Figure 6: Albany MLEM Anomaly and historical drilling over magnetics



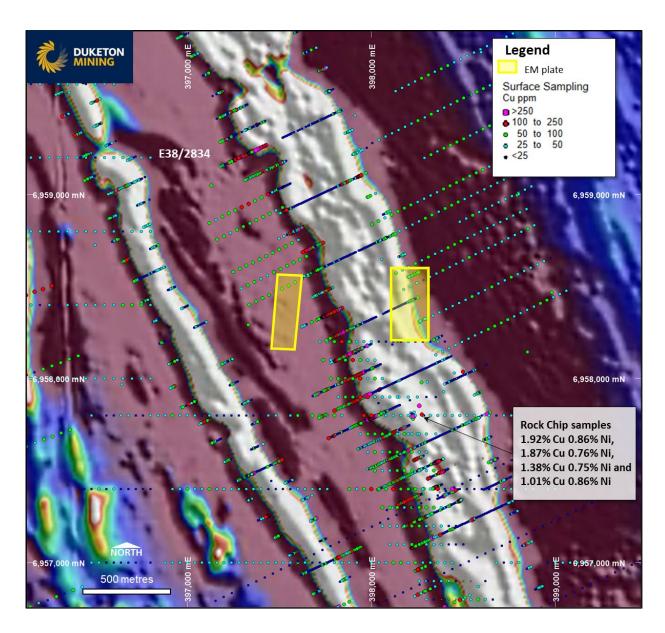


Figure 7: Camp Oven MLEM Anomalies and historical Cu geochemistry over magnetics



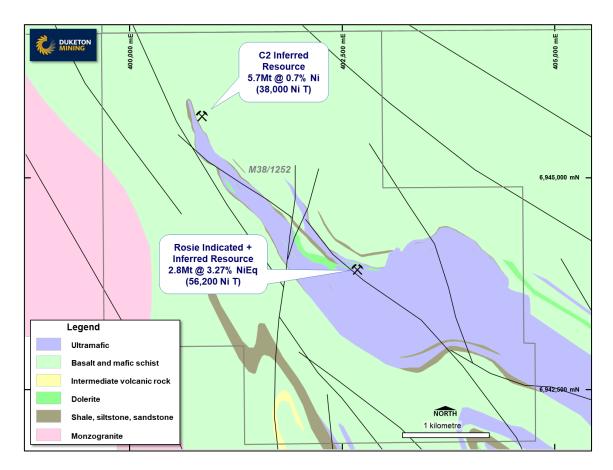


Figure 8: Plan of The Bulge Complex

The Indicated and Inferred Mineral Resource Estimate for Rosie of 2.77 million tonnes at 3.27% nickel equivalent is reported in accordance with the 2012 JORC Code. The resource estimate is reported at >1% NiEq. Over 72% of the Resource has been classified as Indicated with the remainder in the Inferred Category. Mineralisation remains open in all directions.

The Mineral Resource contained metal stands at 56,300 tonnes of nickel, 11,800 tonnes of copper, 1,610 tonnes of cobalt and over 229,000 oz of total PGEs (Table 3).

Resource Category	Tonnes (kt)	Ni%	NiEq_% <sup>(1)</sup>
Indicated	2,012	2.11	3.35
Inferred	761	1.81	3.06
TOTAL	2,773	2.03	3.27

Table 1: Rosie Mineral Resource Statement (February 2022) >1.0% NiEq

(1) Assumptions for the nickel equivalent are: Prices (in USD) \$8.00/lb Ni, \$3.65/lb Cu, \$15.30/lb Co, \$1,100/oz Pt, \$2,300/oz Pd and \$15,500/oz Rh. Recovery assumptions from metallurgical test work are: Pentlandite domain 96.9% Ni, 99.5% Cu, 95.1% Co, 78.2% Pt, 97.6% Pd and 83.4% Rh. Violarite domain 88.7% Ni, 94.5% Cu, 88.5% Co, 57.6% Pt, 87.3% Pd and 64.8% Rh.



The resource includes a reportable nickel equivalent number based on metallurgical work completed to determine recoveries (see ASX announcement 8<sup>th</sup> July 2020 & 10<sup>th</sup> July 2020). It is the opinion of DKM that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold.

### Rosie and C2

The total JORC compliant nickel resource for the Bulge Area (Rosie & C2) now stands at 94,300 tonnes of nickel, 14,100 tonnes of copper and 255,200 ounces of PGE's (Table 6).

Rosie Nickel Resource >1% NiEq							
Classification	Sulphide	Tonnes	Ni (%)	Cu (%)	Co (ppm)	Total PGEs (g/t)	NiEq (%)
	Pentlandite	1,191,555	2.4	0.42	642	2.7	3.76
Indicated	Violarite	820,999	1.7	0.39	504	2.5	2.75
	Sub-Total	2,012,553	2.1	0.41	585	2.6	3.35
	Pentlandite	694,751	1.8	0.48	580	2.5	3.13
Inferred	Violarite	66,179	1.5	0.42	442	1.7	2.36
	Sub-Total	760,930	1.8	0.48	568	2.4	3.06
Total	All	2,773,483	2.0	0.43	580	2.6	3.27

**Table 2: Rosie Mineral Resource Grade** 

		Contained Metal				
Classification	Ore Type	Ni (t)	Cu (t)	Co (t)	Total PGEs (oz)	
	Pentlandite	28,524	4,978	764	104,868	
Indicated	Violarite	13,966	3,230	414	64,869	
	Sub-Total	42,490	8,208	1,178	169,737	
	Pentlandite	12,786	3,337	403	55,740	
Inferred	Violarite	987	279	29	3,551	
	Sub-Total	13,774	3,616	432	59,291	
	Total	56,264	11,824	1,610	229,028	

**Table 3: Rosie Mineral Resource Contained Metal** 



The following equations were used to calculate nickel equivalent – Cu and Co measured in ppm and PGEs measured in ppb – all converted to percentages for NiEq calculation:

Pentlandite domain: NiEq = Ni% +(Cu% \* 0.995 \*(3.65/8)) + (Co% \* 0.951 \*(15.3/8)) + (Pt% \* 0.782 \* (1100 \*14.583/8)) + (Pd% \* 0.976 \* (2300 \* 14.583/8)) + (Rh% \* 0.834 \*(15500 \* 14.583/8))

Violarite domain: NiEq = Ni% +(Cu% \* 0.945 \*(3.65/8)) + (Co% \* 0.885 \*(15.3/8)) + (Pt% \* 0.576 \*(1100 \*14.583/8)) + (Pd% \* 0.873 \*(2300 \* 14.583/8)) + (Rh% \* 0.648 \*(15500 \* 14.583/8)) where 14.583 is the amount of troy ounces per pound.

C2 Nickel Resource >0.5%Ni							
Classification	Oxidation	Tonnes	Ni (%)	Ni (t)			
l	Fresh	5,100,000	0.7	34,200			
Inferred	Transitional	600,000	0.6	3,800			
Total		5,700,000	0.7	38,000			

Table 4: C2 Nickel Resource > 0.5% Ni (see ASX Announcement 29 January 2015)

C2 Nickel Resource >0.5%Ni							
Classification	Oxidation	Tonnes	Ni (%)	Cu (%)	Pt (ppb)	Pd (ppb)	S (%)
l£	Fresh	5,100,000	0.7	0.04	60	79	3.3
Inferred	Transitional	600,000	0.6	0.04	72	105	0.9
Total		5,700,000	0.7	0.04	61	82	3.1

Table 5: C2 Resource > 0.5% Ni with Auxiliary Attributes (see ASX Announcement 29 January 2015)

Combined Metal Inventory, The Bulge Area						
Deposit	Ni tonnes	Cu tonnes	PGE oz			
Rosie	56,264	11,824	229,028			
C2	38,000	2,280	26,206			
TOTAL	94,264	14,104	255,234			

Table 6: Combined Metal Inventory, The Bulge Area



# **Regional Exploration**

Regional exploration has been ongoing throughout the quarter. Multiple new targets have been generated creating a significant and robust pipeline of organic opportunities.

#### Granted tenements:

- Stephens base metals VMS project in the Gullewa-Koolanooka Greenstone Belt with a number of historical significant drill intercepts
- Doris uranium tenement within the Narryer Terrane, 125km north of Meekatharra
- Cunyu project covering the entire Merrie Greenstone Belt, early stage exploration
- Lake Barlee gold project surrounding Halleys East Gold Mine, 200km north of Southern Cross

#### Tenement applications:

- Eagle gold project in the Tanami Region, two small non JORC gold resources and numerous other significant intercepts
- Fisher South gold and nickel project at the southern end of the Fisher Greenstone Belt



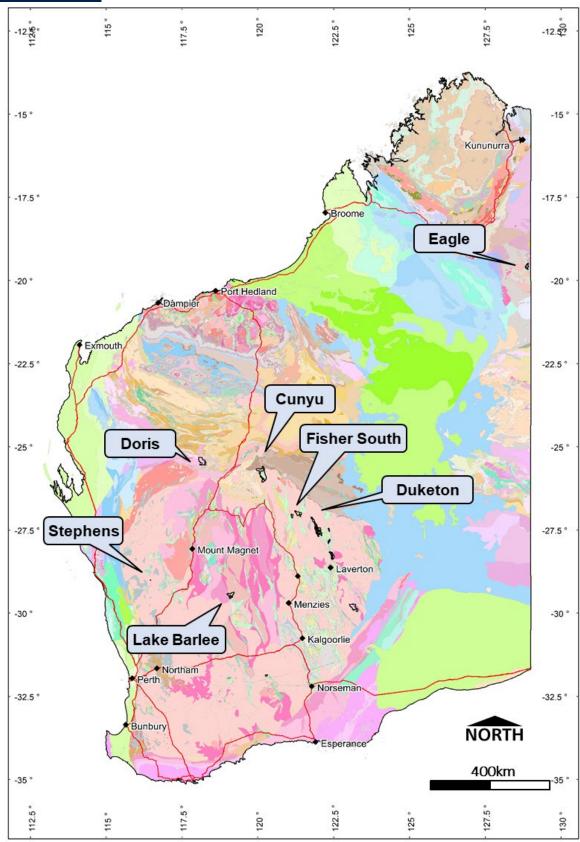


Figure 9: Duketon Regional Tenement Acquisition



# **Ongoing Strategy**

Duketon remains well positioned to drive value from two approaches:

- 1. Expand/Study Nickel Resources Complete mining study and target extensions to Rosie C2 and the greater area for Ni-Cu-PGE's
- 2. New Tenure Opportunistically acquire new tenure via opportunistic applications or by simple/low-cost commercial means.

#### Corporate

At 30 June 2022 Duketon had approximately **A\$18.4M** available from cash reserves of **A\$16.2M** and a liquids position of circa **A\$2.2M**.

#### **ASX Additional Information**

Exploration and evaluation expenditure during the quarter was \$1,035,000, associated with drilling, geophysical surveys, metallurgical testwork, mining studies, heritage surveys and tenement compliance costs. Details of exploration activity during the quarter are set out in this report. There were no substantive mining production and development activities during the quarter. During the quarter, the Company made cash payments of \$92,000 to related parties and their associates. This was the aggregate amount paid to the directors including salary, directors' fees, consulting fees and superannuation.

## Authorised for release by:

Stuart Fogarty
Duketon Mining - Managing Director
+61 8 6315 1490

The information in the announcement that relates to production targets or financial information derived from a production target is extracted from the ASX announcement 28 April 2021 for the Rosie Scoping Study and is available to view on the Company's website (www.duketonmining.com.au). The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions underpinning the production target or the financial information derived from the production target in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in the announcement that relates to Mineral Resources for Rosie is extracted from the ASX announcement 10 March 2022 and is available to view on the Company's website (www.duketonmining.com.au). The information in the announcement that relates to Mineral Resources for C2 is extracted from ASX announcement 29 January 2015. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and



have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this report that relates to exploration results is based on information compiled by Ms Kirsty Culver, Member of the Australian Institute of Geoscientists (AIG) and an employee of Duketon Mining Limited. Ms Culver has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as a competent person as defined in the JORC Code 2012. Ms Culver consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.



# **Appendix 1. Summary of Mining Tenements**

# As at 30 June 2022 the Company had an interest in the following tenements:

Tenement number	Project	State	Status	Interest at beginning of quarter	Interest at end of quarter	Acquired/ Disposed
E38/2666	Duketon	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/2805	Duketon	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/2834	Duketon	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/2866	Duketon	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/2916	Duketon	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/3549	Millar Hill	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/3550	Mount Mabel	WA	Granted	100% Ni (note 1)	100% Ni (note 1)	N/A
E38/3617	Moolart North	WA	Application	100%	100%	N/A
E38/3658	Duketon North	WA	Granted	100%	100%	N/A
E52/3833	Doris	WA	Granted	100%	100%	N/A
E52/3923	Cunyu	WA	Application	100%	100%	N/A
E52/4004	Doris North	WA	Granted	100%	100%	N/A
E53/2143	Fisher South	WA	Application	100%	100%	N/A
E53/2158	Dusty East	WA	Application	100%	100%	N/A
E53/2173	Dexter	WA	Granted	100%	100%	N/A
E59/2414	Stephens	WA	Granted	100%	100%	N/A
E63/2050	Cat Camp	WA	Granted	100%	100%	N/A
E69/3763	Cunyu	WA	Granted	100%	100%	N/A
E77/2717	Barlee	WA	Granted	100%	100%	N/A
E77/2794	North Walgoolan	WA	Application	100%	100%	N/A
E80/5493	Pelican	WA	Application	100%	100%	N/A
E80/5732	Hermes South	WA	Application	100%	100%	N/A
M38/1252	Duketon	WA	Granted	100%	100% Ni (note 1)	N/A
P38/4550	Duketon	WA	Application	100%	100%	Acquired

The Company did not have any interests in farm in or farm out agreements at the beginning, end or during the quarter. Note 1:100% interest held in nickel rights only.

# **Appendix 5B**

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

Name of entity

Duketon Mining Limited	
ABN	Quarter ended ("current quarter")
76 159 084 107	30 June 2022

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (12 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	(1,035)	(3,048)
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(48)	(330)
	(e) administration and corporate costs	(79)	(346)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	6	30
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	(843)
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
1.9	Net cash from / (used in) operating activities	(1,156)	(4,537)

2.	Ca	sh flows from investing activities	
2.1	Pay	yments to acquire or for:	
	(a)	entities	-
	(b)	tenements	-
	(c)	property, plant and equipment	-
	(d)	exploration & evaluation	-
	(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 (12 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)	-	-
2.6	Net cash from / (used in) investing activities	-	(83)

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	-	63
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 (Principal elements of lease payments)	(8)	(37)
3.10	Net cash from / (used in) financing activities	(8)	26

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	17,393	20,823
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(1,156)	(4,537)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	-	(83)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(8)	26

Page 2

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (12 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	16,229	16,229

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	6,199	7,363
5.2	Call deposits	10,030	10,030
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	16,229*	17,393

<sup>\*</sup> Excludes 30 June 2022 market value of listed equity investments of \$2,203,821.

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	92
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.		

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 qu	arter 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.		
	N/A		

8.	Estimated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (item 1.9)	(1,156)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	-
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(1,156)
8.4	Cash and cash equivalents at quarter end (item 4.6)	16,229
8.5	Unused finance facilities available at quarter end (item 7.5)	-
8.6	Total available funding (item 8.4 + item 8.5)	16,229
8.7	Estimated quarters of funding available (item 8.6 divided by item 8.3)	14.0

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: N/A

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: N/A

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: N/A

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 July 2022

'Signed electronically'

Authorised by: Dennis Wilkins, Company Secretary

(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.
- 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.
- 6. By the Company lodging this Appendix 5B, the Managing Director and CFO declare that the Appendix 5B for the relevant quarter:
  - presents a true and fair view, in all material respects, of the cashflows of the Company for the relevant quarter and is in accordance with relevant accounting standards;
  - the statement given above is founded on a sound system of risk management and internal compliance and control
    which implements the policies adopted by the Board; and
  - the Company's financial records have been properly maintained and the Company's risk management and internal compliance and control system is operating efficiently and effectively in all material respects.