

31 October 2023

QUARTERLY ACTIVITIES REPORT FOR PERIOD ENDING 30 SEPTEMBER 2023

Avenira Limited (ASX: AEV) (“**Avenira**” or “**the Company**”) is pleased to provide its Activities Report for the quarter ending on 30 September 2023 (“**the Quarter**”).

Highlights

- **Re-evaluated Mineral Resource Estimate for the Wonarah Project lifts the global resource to 66Mt at 30% P₂O₅ (based on a 27% cut-off grade)¹.**
- **Agreements executed for the right to use Aleees’ intellectual property and technology for the manufacture of LFP cathode active material².**
- **The Tripartite non-binding MOU with the Company and the Northern Territory Government has been extended to 30 June 2024 to allow the NT Government to continue to provide Avenira with support through to the completion of the next stage studies, including the Bankable Feasibility Study³.**
- **Mining Agreement executed with Arruwurra Aboriginal Corporation to facilitate the development of the Wonarah Project⁴.**
- **Subsequent to the September Quarter, the Company has:**
 - **Released the results of its Direct Shipping Project (Wonarah DSO Project) Feasibility Study, demonstrating strong project economics⁵.**
 - **Received Mining Authorisations from the Northern Territory Government for the Wonarah DSO Project, enabling the commencement of mining operations⁶.**

¹ ASX Announcement dated 27 September 2023 – *Mineral Resource Estimate of 66Mt @ 30% P₂O₅ to support DSO Feasibility Study*

² ASX Announcement dated 26 September 2023 – *Avenira Executed Binding Agreements with Technology Partner Aleees*

³ ASX Announcement dated 6 July 2023 – *Extension of MOU’s with Aleees and NT Government*

⁴ ASX Announcement dated 3 July 2023 – *Mining Agreement with Arruwurra Aboriginal Corporation*

⁵ ASX Announcement dated 19 October 2023 – *Wonarah DSO Project Feasibility Study Delivers Strong Financial Results*

⁶ ASX Announcement dated 24 October 2023 – *Avenira Receives Mining Authorisation for Direct Shipping Ore Operations*

Wonarah DSO Phosphate Project

Figure 1. Wonarah Phosphate Project in the Northern Territory



Avenira made significant progress during the September quarter on the development of the Wonarah Direct Shipping Project (**Wonarah DSO Project**). The Company issued a re-evaluated Mineral Resource Estimate for the Wonarah deposit which now stands at 66Mt at 30% P_2O_5 (based on a 27% cut-off grade).

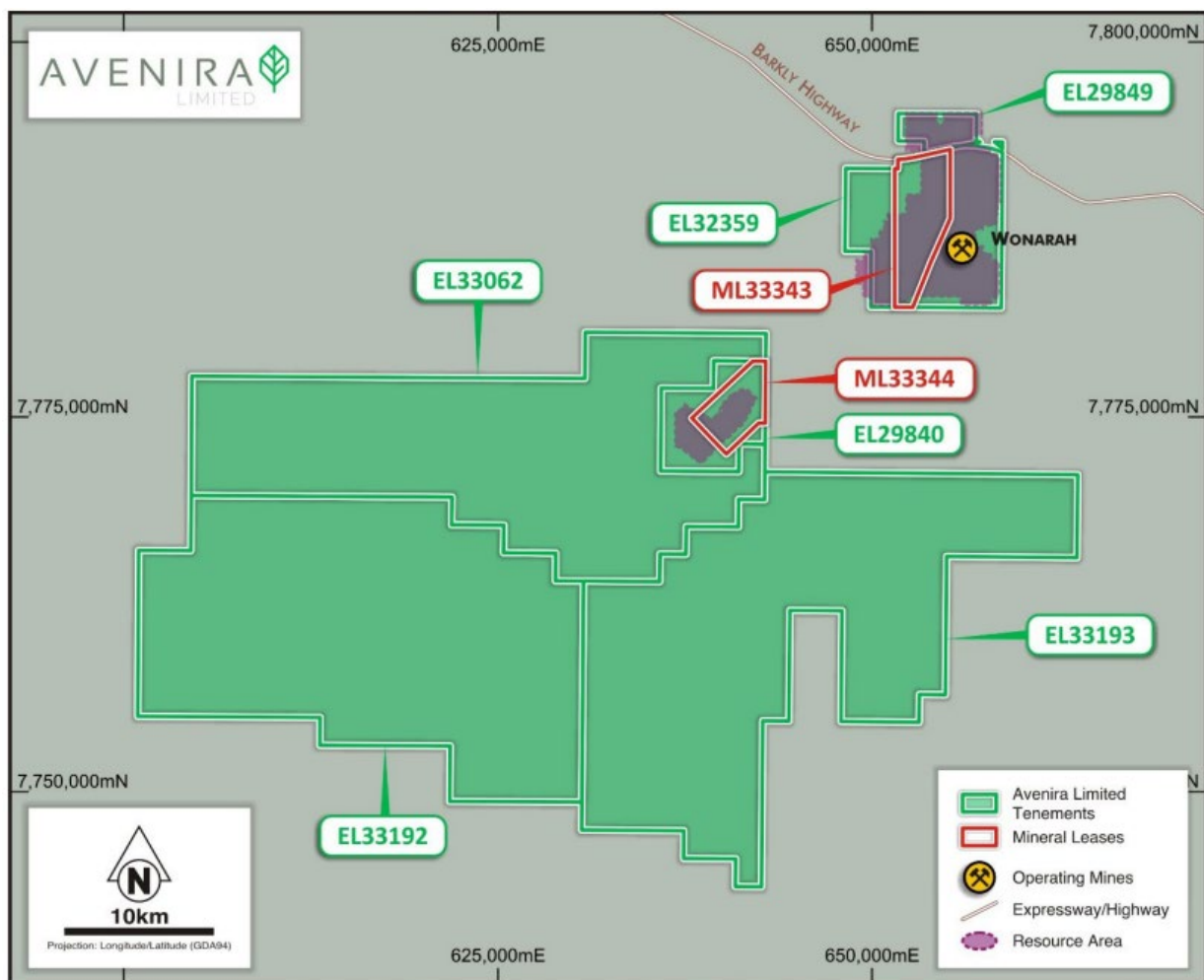
This further strengthens Wonarah's position as one of the largest high-grade phosphate rock deposits in Australia, and supports the development of multiple downstream options, including the Company's DSO and LFP Projects.

The Wonarah Mineral Resource estimate for the Wonarah deposit remains unchanged at previously reported cut-off grades, being:

- 533Mt at 21% P₂O₅ based on a 15% P₂O₅ cut-off grade; and
- 812Mt at 17% P₂O₅ based on a 10% P₂O₅ cut-off grade.

On 3 July, Avenira and Arruwurra Aboriginal Corporation (**AAC**) executed a Mining Agreement to promote the continued development of the Wonarah DSO Project. The agreement provides Avenira with continued support from AAC Members regarding sustainable commercial outcomes, social benefits, and cultural matters. The terms of the Mining Agreement provide a strong commitment from both parties to create mutual enduring benefits while continuing to respect the traditional lands, activities, values, and the rights of AAC Members.

Figure 2: Wonarah Exploration and Mineral Lease Portfolio



Subsequent to the end of the September Quarter, Avenira released the results of the Wonarah Direct Shipping Project Feasibility Study. The Study confirmed the project to be a simple, low risk and low capital intensity project with the capacity to generate healthy cash flows in the current phosphate rock price environment.

Table 1 – Feasibility Study Key Financial Metrics⁷

Metric	Unit	Base Case
BPH Lumps Product Sales	Kt	180
BPH Fines Product Sales	Kt	271
BPH Product Price	A\$/tonne	308
APH DAPR Product Sales	Kt	225
APH Product Price	A\$/tonne	100
Project Operations	Months	23
Capital Investment	A\$M	11.5
Total Free Cash Flows	A\$M	27.3
Average Product Price	A\$/tonne	238.6
All-in Sustaining Cost	A\$/tonne	181.3
Total Cash Revenues	A\$M	161.3
Total Cash Operating Costs	A\$M	122.5
Payback Period	Months	14

On 24 October, Avenira also received approval for its Mine Management Plan (**MMP**) to support the development of the Wonarah DSO Project, authorising 40,000 tonnes of ore extraction, with staged expansion for the balance of production subject to customary conditions.

Aleees Binding Agreement Executed

During the Quarter, Avenira executed binding agreements with its technology licensing partner, Aleees, for the right to use its intellectual property for the manufacturing and global distribution of Lithium Ferro Phosphate (**LFP**) cathode active material.

The two agreements, a License and Technology Transfer Agreement and a Subscription Agreement, were signed in Darwin in front of NT Chief Minister, Natasha Fyles and set out the terms for Avenira’s use of the technology for its LFP Battery Cathode Manufacturing Plant in Darwin. The formal agreements follow the signing of a non-binding MOU with Aleees in September 2022 to work towards the development of Avenira’s LFP Project in Darwin.

Taiwan-based Aleees is a globally recognised battery material manufacturer and is one of only few companies with complete LFP cathode manufacturing capabilities outside of China. Aleees has extensive connections with offtake partners in Asia and will provide management support during the development and operations of the LFP Plant.

The Avenira-Aleees relationship has the support of a three-way MOU with the Northern Territory Government. The Northern Territory Government has committed to work proactively with Avenira to assist and advise where appropriate in relation to necessary infrastructure including water, energy, power, telecommunications, road, port and rail access and service requirements.

Both the License and Technology Transfer Agreement and Share Subscription Agreement are subject to achieving various financial, regulatory and project development milestones.

⁷ ASX Announcement dated 19 October 2023 – Wonarah DSO Project Feasibility Study Delivers Strong Financial Results

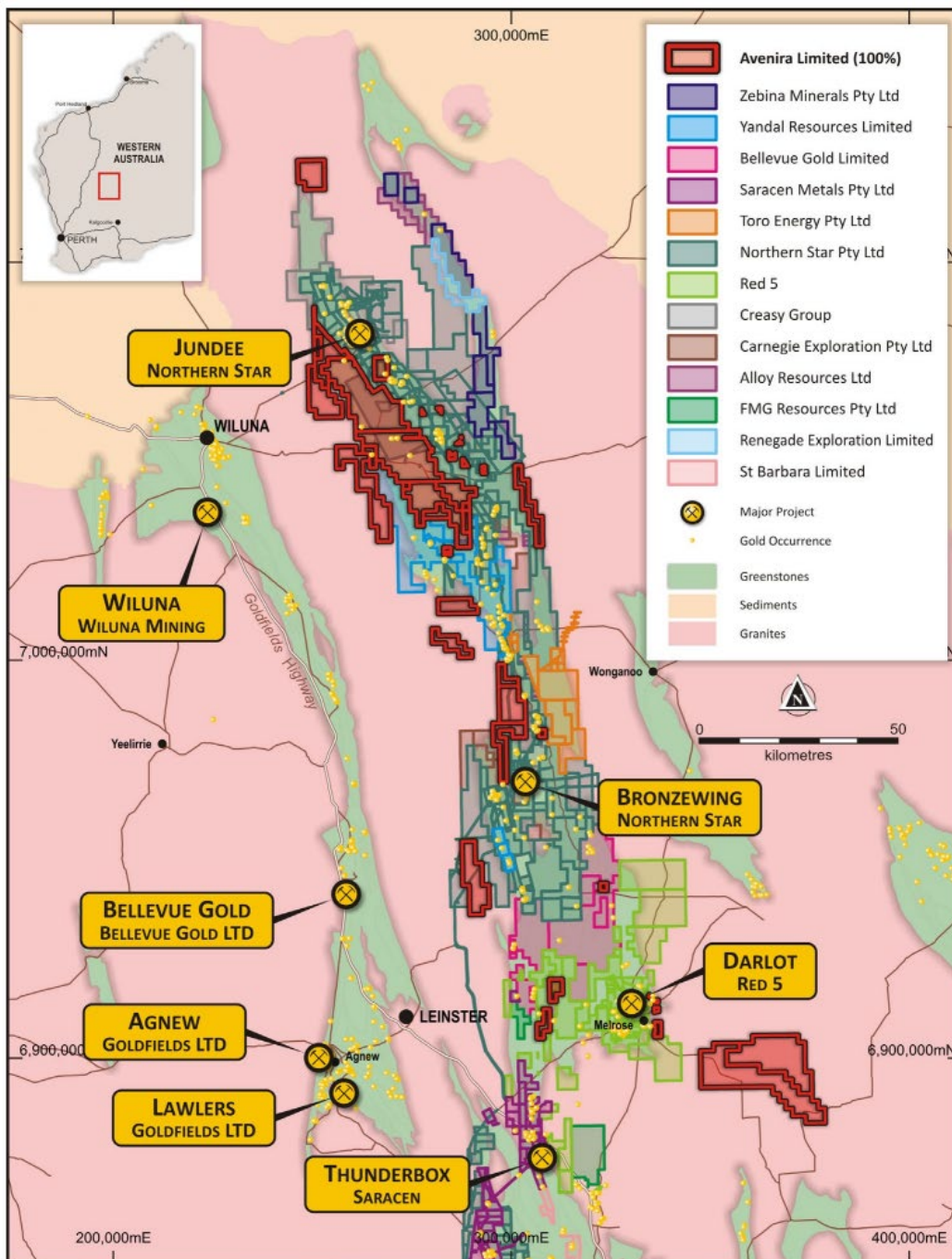
Jundee South Gold Project

The Jundee South Project area is located within 3km of the Jundee Mine and covers more than a 60km strike of highly prospective greenstone stratigraphy. The Project area contains major regional structures interpreted to control gold mineralisation throughout the Yandal Greenstone Belt and contains several historically defined gold occurrences.

Access is via a well-established road system. Accommodation and facilities including flight services are established in the district, given the number of operating mines in the area. Avenira holds applications for Exploration Licenses throughout the greater Yandal Belt including Lake Irwin, Ockerburry Hill and Bronzewing North.

Work completed during the quarter comprised of ongoing data compilation for tenements in the existing portfolio.

Figure 3 – Yandal Region Tenement Portfolio



Corporate Information

Cash Position

At the end of the September 2023 Quarter, Avenira had a cash balance of \$1.7 million.

Other

The expenditure incurred on exploration activities during the Quarter is approximately \$1 million. No expenditure was incurred on mining production or development activities during the Quarter.

Payments totaling approximately \$160,000 were made to related parties of the Company, as shown in the Appendix 5B. These payments related to current salary and fees paid to directors.

This quarterly report has been authorised for release by the Board of Avenira Limited.

For further information, contact:

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Chairman and Chief Executive Officer
+61 8 9264 7000

Media/Investor Queries

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Appendix 1 - COMPETENT PERSON STATEMENT

Competent Persons Statement - Wonarah

The information in this report that relates to Mineral Resources is based on information compiled by Mr Jonathon Abbott, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr. Abbott is a director of Matrix Resource Consultants Pty Ltd and provides geological consulting services to the Company. Mr. Abbott has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Abbott consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Competent Persons Statement - Jundee South

The details contained in this report that pertain to exploration results are based upon information compiled by Mr Steve Harrison, a full-time employee and option-holder of Avenira, from the DMIRS WAMEX database or Avenira-acquired drilling data. He is satisfied that previous pertinent exploration in the project area has been accessed and reflects, in general, the prospective nature of the tenements being considered. Mr Harrison is a Member of the Australian Institute of Geoscientists (AIG) and has sufficient experience in the activity which he is undertaking to qualify as a Competent Person as defined in the December 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). Mr Harrison consents to the inclusion in the report of the matters based upon his information in the form and context in which it appears.

Forward-Looking Statements

This release may include forward-looking statements. Forward-looking statements may generally be identified by the use of forward-looking verbs such as anticipate, aim, expect, intend, plan or similar words, which are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Avenira Limited. Actual values, results or events may be materially different to those expressed or implied in this release. Given these uncertainties, recipients are cautioned not to place reliance on forward-looking statements. Any forward-looking statements in this release speak only at the date of issue. Subject to any continuing obligations under applicable law and the ASX Listing Rules, Avenira Limited does not undertake any obligation to update or revise any information or any of the forward-looking statements in this release or any changes in events, conditions or circumstances on which any such forward-looking statement is based.

Appendix 2 – TENEMENT SCHEDULE AND MINERAL RESOURCE STATEMENT

Schedule of Avenira Limited Tenements as at 30 September 2023

Location	Tenement Name	Tenement	Nature of Company's Interest
Western Australia	Bronzewing North	E 36/1021	100%
Western Australia	McKenzies Bore	E 36/1029 (Granted 3/7/23)	100%
Western Australia	Ockerburry Hill	E36/1049 (Granted 10/7/23)	100%
Western Australia	Ockerburry Hill	E36/1050 (Granted 10/7/23)	100%
Western Australia		E36/1074 (Application)	100%
Western Australia	Darlot	E 37/1474	100%
Western Australia	Langfords Find	E 37/1489 (Application)	100%
Western Australia	Lake Irwin	E37/1515 (Withdrawn 19/7/23)	0%
Western Australia	Lake Irwin	E37/1517 (Withdrawn 19/7/23)	0%
Western Australia	Jundee South	E 53/1856	100%
Western Australia	Jundee South	E 53/1859	100%
Western Australia	Jundee South	E 53/2078	100%
Western Australia	Jundee South	E 53/2079	100%
Western Australia	Jundee South	E 53/2204	100%
Western Australia	Bullock Well	E 53/2205 (Granted 22/8/23)	100%
Western Australia	Jundee South	E 53/2207 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2208	100%
Western Australia	Jundee South	E 53/2209 (Application)	100%
Western Australia	Bullock Well	E 53/2210 (Application)	100%
Western Australia	Bronzewing North	E 53/2211 (Application)	100%
Western Australia	Orphan Well	E 53/2212 (Withdrawn 19/7/23)	0%
Western Australia	Jundee South	E 53/2213 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2214 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2215 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2216	100%
Western Australia	Jundee South	E 53/2217 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2218	100%
Western Australia	Jundee South	E 53/2219	100%
Western Australia	Jundee South	E 53/2220	100%
Western Australia	Jundee South	E 53/2238 (Surrendered 7/8/23)	0%
Western Australia	Jundee South	E 53/2250	100%
Western Australia	Jundee South	E 53/2251 (Application)	100%
Western Australia	Jundee South	E 53/2252 (Application)	100%
Western Australia	Jundee South	E 53/2253	100%
Western Australia	Jundee South	E 53/2272 (Application)	100%
Western Australia	Bronzewing North	E 53/2280 (Application - Ballot Pending)	100%
Western Australia	Jundee South	E53/2288 (Application)	100%
Western Australia	Jundee South	E53/2289 (Application)	100%
Western Australia	Jundee South	E53/2290 (Application)	100%
Western Australia	Jundee South	E53/2291 (Application)	100%
Western Australia	Jundee South	E53/2296 (Application)	100%
Western Australia	Jundee South	E53/2297 (Application)	100%
Western Australia	Jundee South	E53/2298 (Application)	100%
Western Australia	Jundee South	E53/2299 (Application - Ballot Pending)	100%
Western Australia	Jundee South	E53/2308 (Application)	100%
Western Australia	Bungarra Bore	E 69/4020	100%
Western Australia	Darlot	P 37/9539	100%
Western Australia	Mount Stirling	P 37/9593	100%
Western Australia	Mount Stirling	P 37/9594	100%
Western Australia	Mount Stirling	P 37/9595	100%
Western Australia	Mount Stirling	P 37/9596	100%
Western Australia	Darlot	P 37/9630	100%
Western Australia	Darlot	P 37/9631	100%
Western Australia	Jundee South	P 53/1712	100%
Western Australia	Jundee South	P 53/1713	100%

Location	Tenement Name	Tenement	Nature of Company's Interest
Northern Territory	Arruwurra	EL29840	100%
Northern Territory	Wonarah	EL29849	100%
Northern Territory	Dalmore	EL32359	100%
Northern Territory		EL33062	100%
Northern Territory		EL33063 (Application)	100%
Northern Territory		EL33192	100%
Northern Territory		EL33193	100%
Northern Territory	Arruwurra	ML33343	100%
Northern Territory	Dalmore	ML33344	100%

Mineral Resource Statement

WONARAH PROJECT, NORTHERN TERRITORY, AUSTRALIA												
Cut off P ₂ O ₅ %	Resource Category	Tonnes	P ₂ O ₅	Al ₂ O ₃	CaO	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	SiO ₂	TiO ₂
		Mt	%	%	%	%	%	%	%	%	%	%
10	Measured	78.3	20.8	4.85	28	1.11	0.43	0.25	0.04	0.1	39.7	0.21
	Indicated	222	17.5	4.75	23.2	1.49	0.47	0.2	0.04	0.09	48.3	0.22
	M+I	300	18.3	4.77	24.4	1.4	0.46	0.21	0.04	0.09	46.1	0.22
	Inferred	512	18	4.8	24	2.1	0.5	0.2	0.08	0.05	46	0.2
	Total	812	18	4.8	24	1.8	0.5	0.2	0.07	0.06	46	0.2
15	Measured	64.9	22.4	4.47	30	1.1	0.37	0.19	0.04	0.09	37	0.19
	Indicated	133	21.1	4.77	28	1.53	0.47	0.21	0.04	0.09	39.7	0.22
	M+I	198	21.5	4.67	28.7	1.39	0.44	0.2	0.04	0.09	38.8	0.21
	Inferred	335	21	4.5	28	2.0	0.5	0.2	0.10	0.06	39	0.2
	Total	533	21	4.6	28	1.8	0.5	0.2	0.1	0.07	39	0.2
27	Measured	3.4	30.9	3.14	42.1	0.85	0.18	0.19	0.05	0.08	18.0	0.14
	Indicated	9.6	30.0	3.43	38.8	1.14	0.28	0.11	0.03	0.08	24.7	0.15
	M+I	13.4	30.2	3.35	39.7	1.07	0.26	0.13	0.04	0.08	22.9	0.15
	Inferred	53	30	3.1	40	1.3	0.3	0.1	0.1	0.06	22	0.1
	Total	66	30	3.1	40	1.3	0.3	0.1	0.1	0.06	22	0.1

Refer to ASX release dated 27 September 2023 for Mineral Resource estimate details. In accordance with ASX Listing Rule 5.23, the Company is not aware of any new information or data that materially affects the information included in this release and the Company confirms that, to the best of its knowledge, all material assumptions and technical parameters underpinning the estimates in this release continue to apply and have not materially changed.

Appendix 5B

Mining exploration entity quarterly cash flow report

AVENIRA LIMITED

48 116 296 541

30 SEPTEMBER 2023

	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 (if expensed)	-	-
(b) development	-	-
(c) production	-	-
(d) staff costs	(281)	(281)
(e) administration and corporate costs	(354)	(354)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	10	10
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other – Net GST / VAT refund	108	108
1.9 Net cash from / (used in) operating activities	(517)	(517)

2. Cash flows from investing activities		
2.1 Payments to acquire:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	-	-
(d) exploration & evaluation (if capitalised)	(1,016)	(1,016)
(e) investments	-	-
(f) other non-current assets	-	-
2.2 Proceeds from the disposal of:		
(a) entities	-	-
(b) tenements	-	-
(c) property, plant and equipment	-	-
(d) investments	-	-

	Current quarter \$A'000	Year to date (3 months) \$A'000
(e) other non-current assets	-	-
2.3 Cash flows from loans to other entities	-	-
2.4 Dividends received (see note 3)	-	-
2.5 Other (Cash received in advance from future disposal of assets)	-	-
2.6 Net cash from / (used in) investing activities	(1,016)	(1,016)

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 (provide details if material)	-	-
3.10 Net cash from / (used in) financing activities	-	-

4. Net increase / (decrease) in cash and cash equivalents for the period		
4.1 Cash and cash equivalents at beginning of period	3,268	3,268
4.2 Net cash from / (used in) operating activities (item 1.9 above)	(517)	(517)
4.3 Net cash from / (used in) investing activities (item 2.6 above)	(1,016)	(1,016)
4.4 Net cash from / (used in) financing activities (item 3.10 above)	-	-
4.5 Effect of movement in exchange rates on cash held	-	-
4.6 Cash and cash equivalents at end of period	1,735	1,735

5.		Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	-	-
5.2	Call deposits	1,735	3,268
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)	1,735	3,268

6.		Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	160
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.		Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1	Loan facilities	3,000	2,975
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	Total financing facilities	3,000	2,975

7.5 **Unused financing facilities available at quarter end** 25

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.

A \$3 million secured loan facility with Au Xingao Investment Pty Ltd at an interest rate of 8% p.a. Accrued interest capitalised every 6 months if not paid. Facility is for a period of 3 years

8.	\$A'000
8.1 Net cash from / (used in) operating activities (Item 1.9)	(517)
8.2 Capitalised exploration & evaluation (Item 2.1(d))	(1,016)
8.3 Total relevant outgoings (Item 8.1 + Item 8.2)	(1,533)
8.4 Cash and cash equivalents at quarter end (Item 4.6)	1,735
8.5 Unused finance facilities available at quarter end (Item 7.5)	25
8.6 Total available funding (Item 8.4 + Item 8.5)	1,760
8.7 Estimated quarters of funding available (Item 8.6 divided by Item 8.3)	1.15

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: - No, the Feasibility Study for the DSO has now been completed and we do not expect our current level of net operating cash flows to remain at these levels.

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: - Not required at this stage.

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, as per the answer to 8.8(1) above, as the Company will not have the current levels of net operating cash flows.

- 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: 31 October 2023.....

Authorised by:By the Board.....

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