

## ASX ANNOUNCEMENT

RRL1804D

20 January 2022

### ROX RESOURCES LIMITED

ASX: RXL

*Rox Resources Limited (ASX: RXL) is an Australian listed Company with advanced gold projects in Western Australia, the Youanmi Gold Project and Mt Fisher Gold project.*

#### DIRECTORS

**Mr Stephen Dennis**  
*Chairman*

**Mr Alex Passmore**  
*Managing Director*

**Dr John Mair**  
*Non-Executive Director*

Shares on Issue	157.6m
Share Price	\$0.36
Market Cap.	\$56.7m
Cash & Receivables	\$10.7m
<small>(as at 30 Sept 2021)</small>	

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## Youanmi Deeps Resource Upgrade Lifts Total Youanmi Resource to 3 Moz Au

### Highlights:

- Youanmi Total Mineral Resource increased by 1.34 Moz Au to 3 Moz Au.
- Drilling results to the end of October 2021 included in this current resource update to deliver a 156% increase in the Deeps Resource contained gold.
- Youanmi Deeps very high-grade material increases following seven months of intensive infill and extensional diamond drilling for around 35,000 metres, as well as defining new areas such as Link, Junction, and mineralisation-parallel hanging-wall lodes.
- The Youanmi surface resource was not updated in this estimation round with further updates pending.
- All in exploration costs for the project indicate a \$7 per ounce discovery cost – an exceptional result.
- Significant increase in Au metal ounces per vertical metre paves the way for expected robust conceptual economics, particularly with the recent determination of the Albion process as the preferred method for sulphide ore bodies at Youanmi (92.2% average gold extraction for underground). \*

West Australian focused gold exploration and development company, Rox Resources Limited ("Rox" or "the Company") (**ASX: RXL**), in conjunction with its joint venture partner Venus Metals Corporation Limited (**ASX: VMC**) is pleased to report a significant increase to the Mineral Resource Estimate ("MRE") for the Youanmi Gold Project near Mt Magnet, WA.

Drilling and exploration work at the Youanmi Gold Project in the OYG JV area (Rox 70% and Manager, VMC 30%) has yielded substantial increases in known and defined tonnages and ounces since the acquisition and commencement of drilling in mid-2019.

\* Refer ASX release 23 December 2021

Rox has used in-house expertise to complete the Youanmi Deeps Resource update (Report Youanmi Deeps Mineral Resource Estimate January 2022 – refer Table 1) and engaged CSA Global (who completed the previous update in June 2021) to conduct independent checks of the modelling process. The previous resource for Youanmi Deeps and Near Surface was published in June 2021 (ASX announcement 23<sup>rd</sup> June 2021).

**Managing Director Alex Passmore commented:**

*“We are delighted to announce this substantial upgrade to the Youanmi Gold Project Mineral Resource Estimate following the successful execution of our targeted infill, extensional, and discovery drilling strategy. The geology team are to be commended for discovering new gold bearing structures with our targeting strategy showing demonstrable returns, especially at Link, and with additional mineralisation-parallel lodes discovered.*

*This resource update sees a tripling of the 2018 Deeps Resource with more drilling from the last few months of 2021 still to be incorporated in the overall resource. We took the decision to provide an interim updated resource estimate given the very long assay turnaround times being experienced of up to 14 weeks in some cases.*

*With the recent determination of the Albion process as our preferred processing method for the high-grade sulphide-associated ore bodies at Youanmi, which show we can likely achieve metallurgical recoveries around 95% (92.2% average for underground), we are well positioned to benefit from the increased resource.*

*Rox continues to trade at very low enterprise value per attributable resource ounce metrics calculated currently at \$22 per ounce.*

*Youanmi mine feasibility studies continue with early mine planning results feeding back into targeted infill drilling areas for continued conversion of inferred material into indicated categories.*

*We also continue to work on grass roots exploration activities in areas outside the immediate Youanmi mine area with the intent of making new discoveries in the region.”*

**Table 1 - Summary of Youanmi Mineral Resource January 2022**

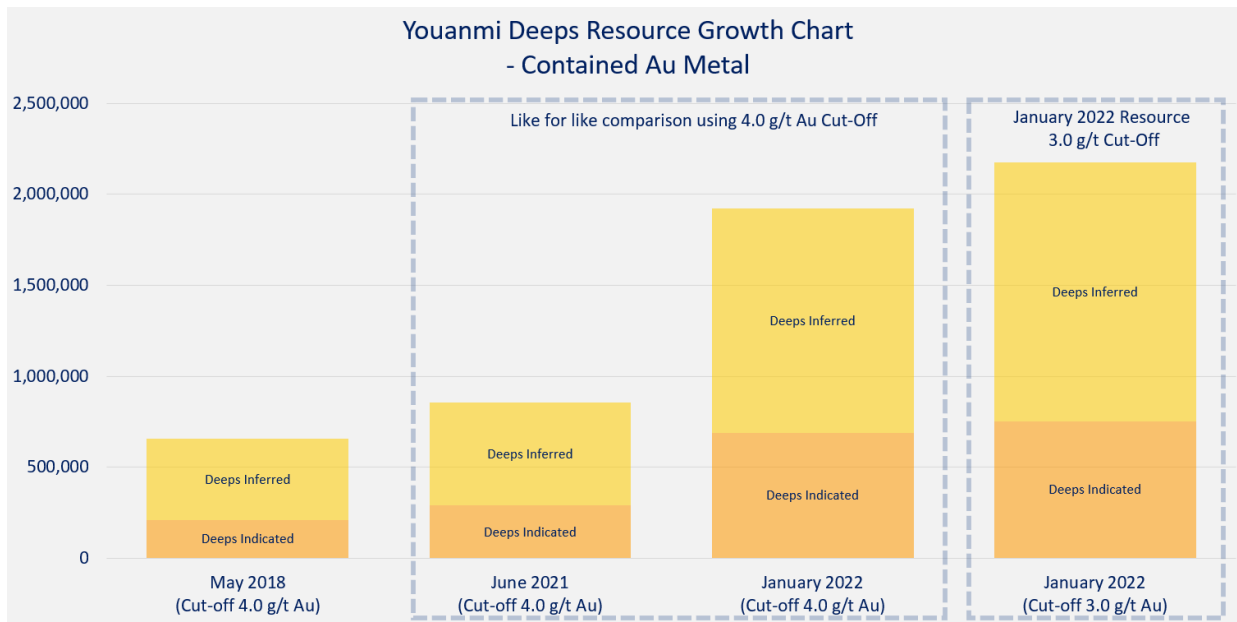
Area	Classification	Cut-off	June 2021 Resource			Change in	January 2022 Resource		
			Tonnes (dmt)	Au Grade (g/t)	Au Metal (oz)	Au Metal (%)	Tonnes (dmt)	Au Grade (g/t)	Au Metal (oz)
Near Surface	Indicated	0.5 g/t*	7,470,000	1.81	434,000	na	7,470,000	1.81	434,000
Deeps	Indicated	3.0 g/t	1,097,000	8.23	290,200	up 156%	3,060,000	7.55	744,000
<b>SubTotal</b>	<b>Indicated</b>		<b>8,567,000</b>	<b>2.63</b>	<b>724,200</b>	<b>up 63%</b>	<b>10,530,000</b>	<b>3.48</b>	<b>1,178,000</b>
Near Surface	Inferred	0.5 g/t*	7,240,000	1.57	366,000	na	7,240,000	1.57	366,000
Deeps	Inferred	3.0 g/t	2,279,000	7.73	566,200	up 156%	6,840,000	6.59	1,450,000
<b>SubTotal</b>	<b>Inferred</b>		<b>9,519,000</b>	<b>3.05</b>	<b>932,200</b>	<b>up 95%</b>	<b>14,080,000</b>	<b>4.01</b>	<b>1,816,000</b>
Near Surface	Ind + Inf	0.5 g/t*	14,710,000	1.69	800,000	na	14,710,000	1.69	800,000
Deeps	Ind + Inf	3.0 g/t	3,376,000	7.89	856,300	up 156%	9,900,000	6.89	2,194,000
<b>Near Surface + Deeps</b>	<b>Ind + Inf</b>		<b>18,086,000</b>	<b>2.85</b>	<b>1,656,300</b>	<b>up 81%</b>	<b>24,610,000</b>	<b>3.78</b>	<b>2,994,000</b>

\* Grace 1.5 g/t Au Cut-Off

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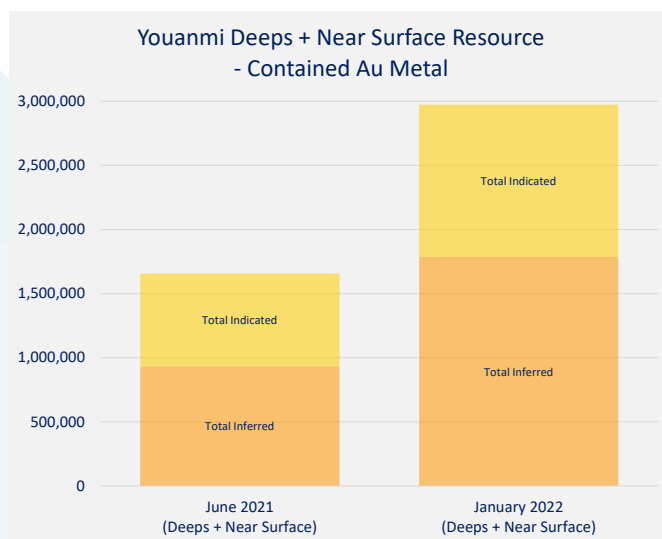
### Comparison to June 2021 Deeps Resource Estimate

For the Deeps Resource an increase in total Au metal of 156% has been achieved, both in the Indicated and Inferred categories (refer Figure 1). It is noted that in 2021 a 4.0 g/t Au cut-off grade was applied, which has now been reduced to 3.0 g/t Au based on recent mine planning assumptions, and that on an equal cut-off grade basis, specifically using a 4.0 g/t Au cut-off, the comparison to June 2021 still shows a significant increase in metal of 128%.



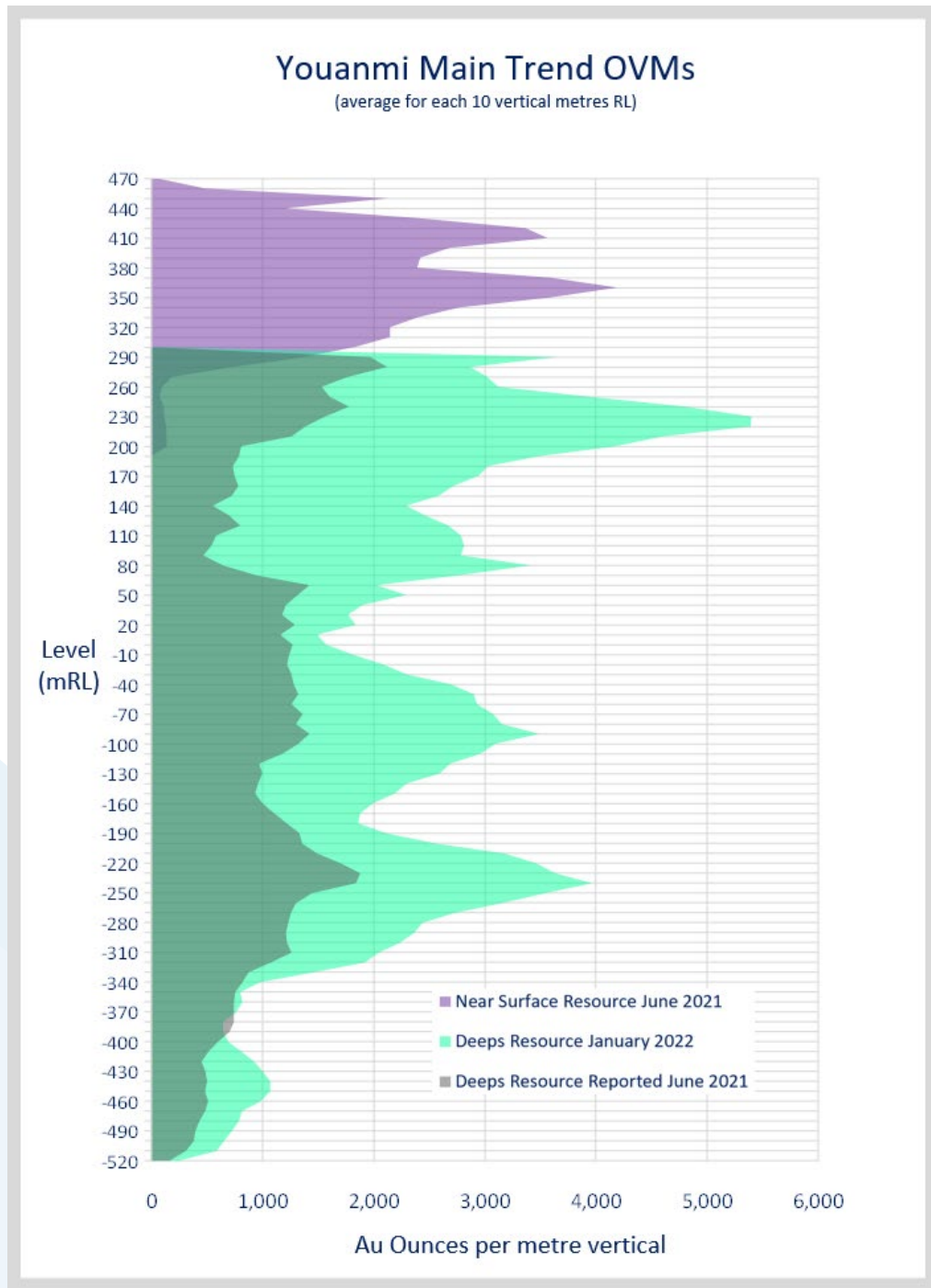
**Figure 1 - Chart showing increase in contained metal for Youanmi Deeps Mineral Resource**

Despite not updating the Near Surface Resource (planned by end of FY22), the total Youanmi Resource showed a total metal increase of 80% from 1.7 mil ounces to 3.0 million ounces (refer Figure 2).



**Figure 2 – Chart showing increase in contained metal for combined Youanmi Mineral Resource**

A significant increase in ounces per vertical metre was achieved (Figure 3 below) to an average of 2,900 ounces per vertical metre between surface and 750m below surface. This reflects resource growth mostly being lateral in two aspects. Firstly, to the north including the Link area as can be seen in the long section (Figure 4) and secondly with new lodges discovered in the hanging-wall of the previously interpreted lodges.



**Figure 3 – Chart showing increase in Ounces per Vertical Metre (Deeps Model only <300 mRL)**

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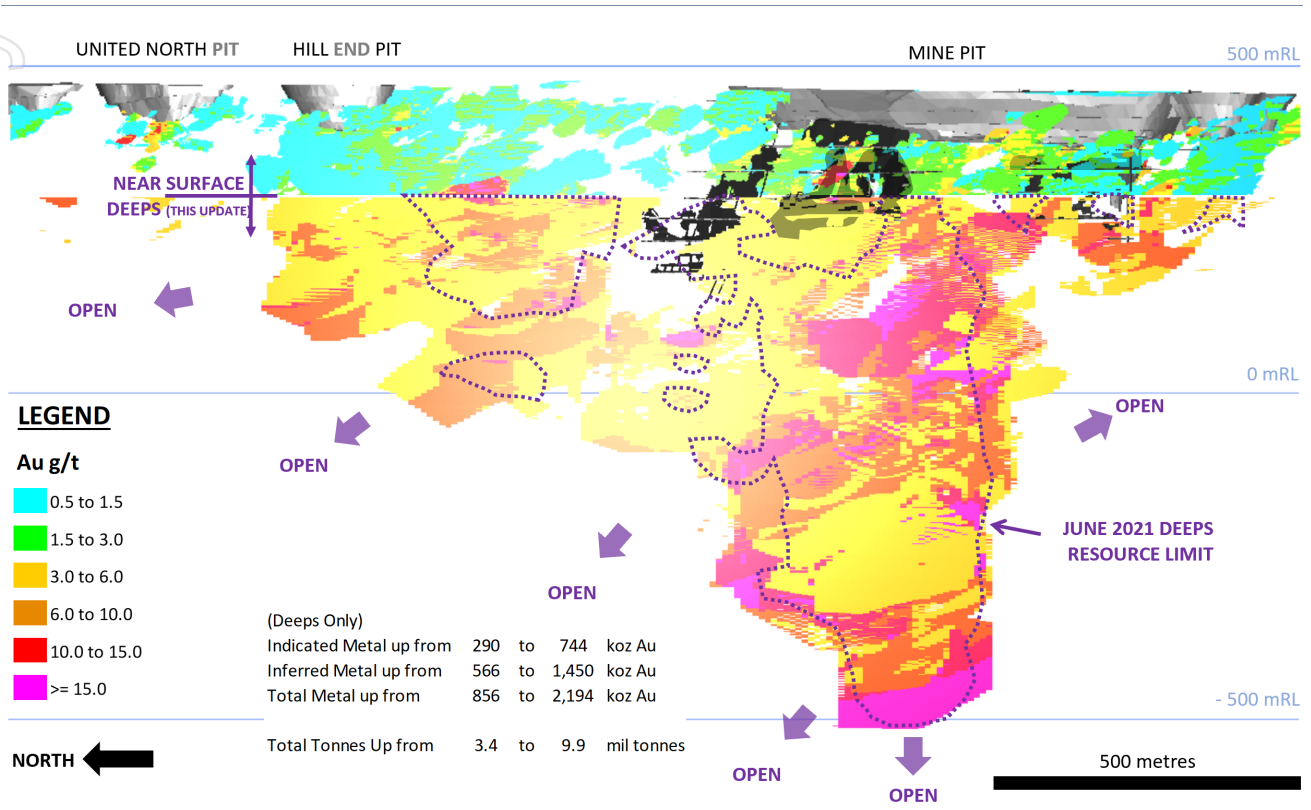


Figure 4 - Deeps Resource and Near Surface Resource Model Au grade distribution in area near pits, showing progression of Deeps Model from June 2021 (Deeps is below 300 mRL).

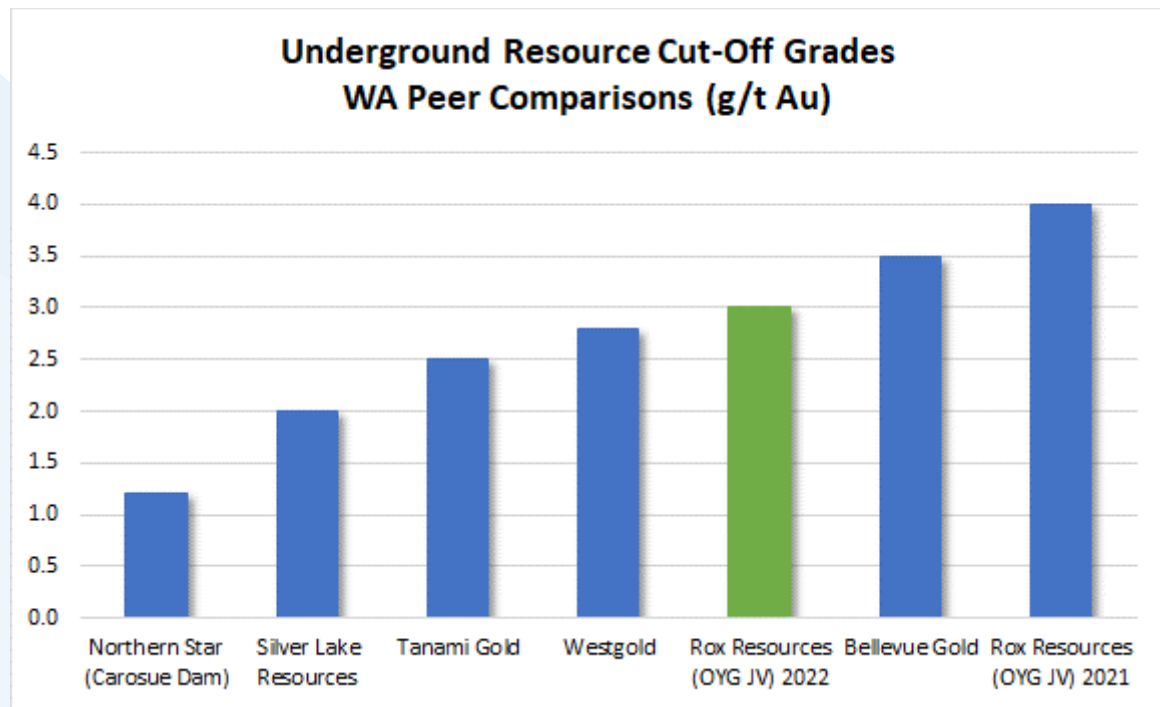


Figure 5 - Cut-Off Grade Comparison to WA Underground Gold Peers (support in Appendix A)

### **Youanmi Deeps Resource Modelling Parameters Discussion:**

A total of 21 mineralised lodes have been modelled, along 2.8 km of strike length, comprising the Mine Lode and associated footwall and hanging wall lodes along the main trend corridor. The maximum depth of the Mine Lode interpretation is to approximately -600mRL, 1,060m below the natural surface. The Mine Lode is continuous down-dip for this length; other lodes have much more restricted down-dip extents. The hanging wall and footwall lodes are predominantly 0.5m-2m thick, while the Mine Lode is generally in the order of 1m-3m thick, but locally exceeds 10m. No minimum or maximum thickness values were applied for interpretation of the lodes.

A series of grade shells separating lower grade from higher grade parts of each lode were interpreted using Leapfrog Geo to allow reasonable modelling of the higher-grade shoots within the lodes.

Composites were extracted for each lode to have a length of 1m with a minimum length of 0.5m. Grade shell wireframes for each lode were then used to isolate only sample composites inside each grade shell. Statistical distributions of grades inside each lode and grade shell were reviewed individually to determine high grade cuts (top cuts) that should be applied prior to grade estimation. High grade cuts were applied that ranged from 4 g/t Au to 70 g/t Au and were applied to 7 grade shell wireframe objects and 11 lode wireframe objects.

The grade estimate was conducted using Ordinary Kriging with four estimation passes with a grade limited search utilized for passes 1 and 2. Check estimates using the Inverse Distance Weighted squared and the Nearest Neighbour methods were also completed for all blocks within the mineralized lodes.

### **Next Steps**

Additional drilling results from November and December 2021 will be incorporated into the next Mineral Resource Estimate update expected in the June 2022 quarter.

Following the substantial upgrade to the Youanmi Mineral Resource Estimate announced in this release, the Company expects concept level project economics to be very robust and is hence continuing to rapidly pursue its investigation of development pathways for the Youanmi Gold Project.

The Company is undertaking open pit and underground mining studies including detailed mine design and optimisation. Detailed metallurgical testwork also continues which is being utilised in plant design work (scoping study level) that is also being undertaken.

Exploration programs in 2022 will include resource conversion in addition to extensional drilling, noting that the resource remains open down dip and along strike.

The Company looks forward to updating the market on these developments in due course.

Authorised for release to the ASX by the Board of Rox Resources Limited

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

### **For more information:**

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Rox Resources Limited  
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[admin@roxresources.com.au](mailto:admin@roxresources.com.au)

Matt Hogan  
Managing Director  
Venus Metals Corporation Limited  
Tel: +61 8 9321 7541

### Competent Person's Statement

The information in this release that relates to the Youanmi Near Surface Deposits is based on information compiled by Mr Lynn Widenbar, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Widenbar is a full time employee of Widenbar and Associates Pty Ltd. Mr Widenbar visited site on 9th and 10th May 2018 and reviewed the general site layout, open pit exposures, diamond drill core and the detailed paper data available in the map room and has sufficient experience that 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 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves'. Mr Widenbar consents to the inclusion in the release of the matters based on his information in the form and context that the information appears.

The information in this release that relates to the Youanmi Deeps Mineral Resource is based on information compiled by Mr David Allmark MAusIMM (CP), who is a full-time employee of Rox Resources Limited and who visited the Youanmi site from the 22nd to 23rd of September 2021, and has sufficient experience that 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 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves'. Mr Allmark consents to the inclusion in the release of the matters based on his information in the form and context that the information appears.

### Forward-Looking Statements

This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Rox Resources Limited planned exploration program(s) and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may", "potential," "should," and similar expressions are forward looking statements.

### About Rox Resources

Rox Resources (ASX:RXL) is a West Australian focused gold exploration and development company. It is 70 per cent owner and operator of the historic Youanmi Gold Project near Mt Magnet, approximately 480 kilometres northeast of Perth, and wholly-owns the Mt Fisher Gold project approximately 140 kilometres southeast of Wiluna. Youanmi has a Total Mineral Resource of 2,994 koz of contained gold, with potential for further expansion with the integration of existing prospects into the Resource and further drilling. Youanmi was a high-grade gold mine and produced 667,000oz of gold (at 5.47 g/t Au) before it closed in 1997. Youanmi is classified as a disturbed site and is on existing mining leases which has significant existing infrastructure to support a return to mining operations.

## Appendix A – Supporting Information for Figure 5 (Cut-Off Grade Comparison to WA Underground Gold Peers)

<b>Company</b>	<b>Au Cut-Off (g/t)</b>	<b>Document Reference</b>
Northern Star (Carosue Dam)	1.2	ASX NST Release - 3rd May 2021 Resource Update - page 86.
Silver Lake Resources	2.0	ASX SLR - 15th Sep 2021 Mineral Resource and Ore Reserve Statement and Outlook to FY24 - page 24
Tanami Gold	2.5	ASX TAM - 2021 Annual Report - page 3
Westgold	2.8	ASX WGX - Annual Update of Mineral Resource and Ore Reserves - page 26.
Rox Resources (Youanmi) 2022	3.0	ASX RXL - January 2022 Resource Update
Bellevue Gold	3.5	ASX BGL - 2021 Annual Report - page 38
Rox Resources (Youanmi) 2021	4.0	ASX RXL - 23 Jun 2021 Substantial 39% increase to Youanmi Gold Resource to 1.7Moz - page 2

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**Summary of the Resource Parameters:**

A summary of JORC Table 1 for the “Youanmi Near Surface Deposits – June 2021” was provided in an ASX announcement on 23<sup>rd</sup> June 2021 (RXL: Substantial 39% increase to Youanmi Gold Project Resource to 1.7Moz, 23<sup>rd</sup> June 2021) while a summary of JORC Table 1 is provided below for the “Youanmi Deeps Mineral Resource Estimate – January 2022”, and the compliance regarding the Mineral Resource reported within and in-line with requirements of ASX Listing Rule 5.8.1.

Rox Resources Limited – **Youanmi Deeps Mineral Resource Estimate – January 2022**

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</i>	Sampling consisted of reverse circulation (RC) and half-core NQ3 sized diamond samples.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	The entire RC and diamond (DD) drilling sample was extracted prior to subsampling at surface next to the rig. Diamond and RC field duplicates were taken on selected samples to measure representativity of sample splits.
	<i>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where ‘industry standard’ work has been done this would be relatively simple (e.g. ‘reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay’). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems.</i>	Industry sampling, preparation and assaying techniques have been used to acquire the current dataset.  Sample preparation consisted of coarse crushing a maximum of 3 kg of the submitted sample, pulverising to >85% passing 75 microns and homogenising the pulp. 50 g sample sizes were chosen for analysis of gold, with fire assay fusion and detection by atomic absorption spectrometry (AAS).

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Criteria	JORC Code explanation	Commentary																																																		
	<i>Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information</i>																																																			
<b>Drilling techniques</b>	<i>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</i>	<p>The Youanmi drilling database has been built up over several decades by several different operators. Only RC and DD holes have been used in the resource estimate.</p> <p>Then collar table summary is tabulated below.</p> <table border="1"> <thead> <tr> <th>Hole Type</th> <th>First Hole</th> <th>Last Hole</th> <th>Number of Records</th> <th>Linear Metres</th> </tr> </thead> <tbody> <tr> <td>AC</td> <td>6YMA0107</td> <td>YUAC015</td> <td>1,996</td> <td>92,843.69</td> </tr> <tr> <td>CC</td> <td>Tails1</td> <td>Tails5</td> <td>5</td> <td>5</td> </tr> <tr> <td>DD</td> <td>85FWD0046</td> <td>YUG281</td> <td>764</td> <td>148,080.43</td> </tr> <tr> <td>FS</td> <td>L2FS1</td> <td>WDSUBFS9</td> <td>1,630</td> <td>2,373.47</td> </tr> <tr> <td>RAB</td> <td>4YMR0038</td> <td>YWR0166</td> <td>10,231</td> <td>318,202.1</td> </tr> <tr> <td>RC</td> <td>4PWRC0104</td> <td>YY0451</td> <td>5,378</td> <td>297,227.18</td> </tr> <tr> <td>TR</td> <td>GDW1</td> <td>GDW5</td> <td>5</td> <td>162.6</td> </tr> <tr> <td>VAC</td> <td>YGV0001</td> <td>YGV0035</td> <td>34</td> <td>248</td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td>20,043</td> <td>859,142.47</td> </tr> </tbody> </table>	Hole Type	First Hole	Last Hole	Number of Records	Linear Metres	AC	6YMA0107	YUAC015	1,996	92,843.69	CC	Tails1	Tails5	5	5	DD	85FWD0046	YUG281	764	148,080.43	FS	L2FS1	WDSUBFS9	1,630	2,373.47	RAB	4YMR0038	YWR0166	10,231	318,202.1	RC	4PWRC0104	YY0451	5,378	297,227.18	TR	GDW1	GDW5	5	162.6	VAC	YGV0001	YGV0035	34	248	Total			20,043	859,142.47
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<b>Drill sample recovery</b>	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	Sample recoveries were recorded by the field geologist in the field during logging and sampling. Core recoveries where available were calculated based on nominal run lengths versus measured length of recovered core. 96% of the recorded intervals have core recoveries > 80%.																																																		
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	Limited records relating to historical RC or diamond core sample recoveries have been identified, however, where described, sampling and recovery procedures are consistent with standard Australian industry standards.																																																		
	<i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i>	No relationship between sample recovery and grade has been analysed.																																																		
<b>Logging</b>	<i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i>	<p>All RC and DD drillholes were geologically logged to an industry standard appropriate for the mineralisation present at the project. DD core was photographed.</p> <p>The Competent Person considers that the level of detail is sufficient for the reporting of Mineral Resources.</p>																																																		
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</i>	<p>Lithological logging is qualitative in nature. Logged intervals were compared to the quantitative geochemical analyses and geophysical logging to validate the logging.</p> <p>The Competent Person considers that the availability of qualitative logging has appropriately informed the geological modelling, including mineralisation, weathering and oxidation, water table level and rock type.</p>																																																		
	<i>The total length and percentage of the relevant intersections logged.</i>	The total length of all drilling was geologically logged.																																																		

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Criteria	JORC Code explanation	Commentary																																
Subsampling techniques and sample preparation	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	Mineralised intercepts from diamond drillcore were cut using a diamond saw into half-core and sampled on either a 1m basis or over geological intervals to a maximum of 1m.																																
	<i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i>	RC samples were collected every metre on the drill rig using a cone splitter. A 1.5-3kg sample split was collected into a calico bag for laboratory submission. In some cases, composite samples of up to 5m were collected via spear sampling.  Anomalous composite samples were usually re-assayed at 1m intervals where composite assays were greater than 50ppb, 80ppb or 250ppb depending on the program.																																
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Sample preparation consisted of drying, riffle splitting samples >3 kg, coarse crushing, pulverising to >85% passing 75 microns and homogenising the pulp. The Competent Person considers these methods appropriate for this style of mineralisation.																																
	<i>Quality control procedures adopted for all subsampling stages to maximise representivity of samples.</i>	Rox have used 14 different Certified Reference Materials (CRMs), covering a range of Au values, as well as blanks.  Campaign-based analysis and reporting of quality control data was undertaken of blanks, field duplicates, and CRMs.																																
	<i>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</i>	Limited field duplicate data is available, for post-mining drilling. The precision of the field duplicates is moderate, with 10% of sample pairs having an Average mean difference of >30%; no bias between the paired samples was noted. The precision is accounted for in the variography.  Rox took field duplicates at a frequency of 1 in 25 samples since the start of drilling in 2019. Generally, results were reasonably precise and accurate indicating the sampling was representative of the in-situ material collected																																
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Sample sizes are considered to be appropriate to the grain size of the material being sampled.																																
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	All samples were assayed by Fire Assay or Aqua Regia digest. Both of these are total methods. The range of methods is tabulated below. <table border="1"> <thead> <tr> <th>Company</th> <th>Type</th> <th>Laboratory</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Eastmet / GMA</td> <td>Surface drillholes</td> <td>Metana Lab Perth</td> <td>30g or 50g Fire Assay, or AquaRegia AAS* with re-assay via Fire Assay on samples returning preliminary results &gt;1g/t.</td> </tr> <tr> <td></td> <td>Some early surface drillholes</td> <td>Australian Assay Laboratories Group</td> <td>50g Fire Assay, AAS* finish.</td> </tr> <tr> <td></td> <td>Underground drillholes)</td> <td>Analabs Pty Ltd</td> <td>50g Fire Assay, AAS* finish.</td> </tr> <tr> <td></td> <td>Early surface drillholes and some of underground drillholes</td> <td>Youanmi Mine Laboratory</td> <td>50g Fire Assay, AAS* finish. Aqua Regia – AAS*.</td> </tr> <tr> <td>Aquila</td> <td></td> <td>Genalysis, Perth</td> <td>Fire Assay, AAS* Finish</td> </tr> <tr> <td>Goldcrest</td> <td></td> <td>Genalysis, Perth</td> <td>Composite RC samples using Aqua Regia digest and single metre RC and core samples using Fire Assay, AAS* finish</td> </tr> <tr> <td>Rox</td> <td>Surface drillholes</td> <td>Genalysis, Perth</td> <td>Single metre RC and core samples using Fire Assay, AAS* finish</td> </tr> </tbody> </table>	Company	Type	Laboratory	Method	Eastmet / GMA	Surface drillholes	Metana Lab Perth	30g or 50g Fire Assay, or AquaRegia AAS* with re-assay via Fire Assay on samples returning preliminary results >1g/t.		Some early surface drillholes	Australian Assay Laboratories Group	50g Fire Assay, AAS* finish.		Underground drillholes)	Analabs Pty Ltd	50g Fire Assay, AAS* finish.		Early surface drillholes and some of underground drillholes	Youanmi Mine Laboratory	50g Fire Assay, AAS* finish. Aqua Regia – AAS*.	Aquila		Genalysis, Perth	Fire Assay, AAS* Finish	Goldcrest		Genalysis, Perth	Composite RC samples using Aqua Regia digest and single metre RC and core samples using Fire Assay, AAS* finish	Rox	Surface drillholes	Genalysis, Perth	Single metre RC and core samples using Fire Assay, AAS* finish
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<i>For geophysical tools, spectrometers, handheld</i>	na																																	

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Criteria	JORC Code explanation	Commentary
	<i>XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i>	
	<i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</i>	<p>Historical assay quality control measures are largely unknown. Regular duplicates with satisfactory results were reported from some programmes. The Metana (bulk of historical samples) laboratory appears to have systematically undertaken a 10% duplicate fire assay analysis. No system of submission of standard reference material and blank samples is believed to have been in place at the time of this drilling, in line with local industry practice at that time</p> <p>Goldcrest took field duplicates, standards and blanks on an approximate 1 in 20 basis (5%) and all Goldcrest drill samples were submitted for assay. Goldcrest twin drilling in shallower areas has verified the drill results of previous explorers.</p> <p>Historical quality assurance and quality control data relating to the remaining resources is either no longer available or is inconsistently reported. Given the long time period over which the data was generated it was not possible to independently verify the quality of the data.</p> <p>Rox took field duplicates at a frequency of 1 in 26 samples and inserted external standards and blanks at a frequency of 1 in 26 samples. Laboratory introduced QAQC samples included coarse reject and pulp repeats and internal standards. Generally, results were precise and accurate with only a few inconsistencies identified in a small number of batches due to mis-labelling or sample swaps</p>
<b>Verification of sampling and assaying</b>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	Intersections selected by Rox were reviewed by the Competent person and considered appropriate for the Mineral Resource estimate.
	<i>The use of twinned holes.</i>	There are no twinned holes in the resource area.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	The data entry, storage and documentation of primary data was completed on Microsoft Excel spreadsheets and local hard drives, then imported into a central database.
	<i>Discuss any adjustment to assay data.</i>	No adjustments or calibrations have been made to any assay data.
<b>Location of data points</b>	<i>Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i>	<p>Recent drillholes (Goldcrest, Rox) have been surveyed using differential GPS tools. Older holes (largely Eastmet or GMA) do not have records of the survey methods, although typically these are expected to be by total station tools.</p> <p>Approximately 90% of drillholes longer than 100m have been down-hole surveyed, mainly with gyroscopic tools; a minority of older holes were surveyed with multi-shot or single-shot tools. Drillholes less than 100 m long typically do not show any material downhole deviation</p>
	<i>Specification of the grid system used.</i>	Topographic data were captured in GDA94 MGA Zone 50 grid system.
	<i>Quality and adequacy of topographic control.</i>	A topographic surface was built from end of month pickups of pits, dumps, infrastructure and surfaces by the mine survey team. The Competent Person considers that the surface is suitable for this MRE.

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Criteria	JORC Code explanation	Commentary
<b>Data spacing and distribution</b>	<i>Data spacing for reporting of Exploration Results.</i>	Average drill hole density is highly variable, ranging from 10m x 10m to 160m x 160m, and generally decreasing with depth.
	<i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i>	The Competent Person considers the mineralised lodes have sufficient geological and grade continuity to support the classification applied to the Mineral Resources given the current drill pattern.
	<i>Whether sample compositing has been applied.</i>	Assay samples were composited to 1m lengths within the mineralised intersection with a minimum of 0.5m samples at the boundaries of the intersection
<b>Orientation of data in relation to geological structure</b>	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i>	No grade effect of the relationship between sample direction and mineralised structures has been identified.
	<i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i>	No relationship has been noted between drillhole inclination and mineralisation.
<b>Sample security</b>	<i>The measures taken to ensure sample security.</i>	No details are available on the historic sample security measures, however sufficient security measures were taken by Rox prior to delivery of the samples to the laboratory. Samples were kept in a locked core storage area until transport by truck to the laboratory.
<b>Audits or reviews</b>	<i>The results of any audits or reviews of sampling techniques and data.</i>	A high level review of sampling techniques and data has been undertaken by an independent third party consultant.

## Section 2: Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
<b>Mineral tenement and land tenure status</b>	<i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i>	The Youanmi mining centre is covered by a Joint Venture agreement with Venus Metals Corporation Limited known as the 'OYG JV'. This comprises ten granted Mining Leases, with a beneficial interest of Rox 70% and Venus 30%. The leases are M57/51, M57/75, M57/97, M57/109, M57/135, M57/160A, M57/164, M57/165, M57/166 and M57/167

Criteria	JORC Code explanation	Commentary
	<p><i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i></p>	<p>There are no impediments preventing the operation of the lease.</p>
<p><b>Exploration done by other parties</b></p>	<p><i>Acknowledgment and appraisal of exploration by other parties.</i></p>	<p>Gold was first discovered at Golden Crown, just to the south of Youanmi in 1894. Some ore from the area was carted to the government battery at Mount Magnet for treatment.</p> <p>Further prospecting led to the discovery of further deposits in 1905, and production commenced from the United and Hill End mines. The Main Lode was discovered in 1908, and the townsite of Youanmi was gazetted in 1910.</p> <p>Youanmi Gold Mine Limited was floated in 1911 and commenced operations based on the Main Lode. Further discoveries led to the development of the Pollard Lodes and Currans to the south, where a small treatment battery was established.</p> <p>The mine struggled during World War One with a shortage of labour and high costs, and finally closed in 1922. It employed around 100 men.</p> <p>In 1934, the Youanmi Gold Mining Limited was floated in London with the intention of restarting underground mining. Production started in August 1936 and continued until 1942, when a shortage of skilled labour due to World War II, resulted in a second closure. About 200 men were employed in this phase. The maximum vertical depth reached by the workings was about 300m below the natural surface; the average stope width was 1.5m. After 1942 the townsite was abandoned; the only remaining infrastructure is the town cemetery.</p> <p>Eastmet Limited, an 80% owned subsidiary of Metana Minerals NL, entered into a JV agreement with Tantalex Ltd and Franmere Holdings Pty Ltd to earn 50% of a group of tenements at Youanmi. Open mining began in October 1986 and the 600,000 tpa conventional Carbon-In-Pulp plant was commissioned on 31 December 1986, by which time Eastmet had acquired the remaining 50% of the project. The original tenements covered the Main, Hill End, and Western Laterite open pits; additional tenements acquired covered the United North, Kathleen, Rebel-Kurrajong and Bunker open pits and the unmined Commonwealth and Connemara resources.</p> <p>Ore and waste were mined on 2.5m fitches by backhoe excavators and hauled by 50t offroad dump trucks. Exploration and development drilling was completed on a 320m by 10m grid, with the holes inclined -60 to the east and sampled at 1m intervals. Grade control during mining used Ditchwitch trenches cut from west to east spaced 5m apart and sampled at 1m intervals along the trench. Additional RC drilling was used in new areas and at the transition from oxide to fresh ore.</p> <p>After completion of the Main Lode pit in 1989, satellite pits were mined including the high-grade Penny West pit, 28 km to the south. The maximum production rate was 187,000 tonnes per quarter. The peak quarterly gold production was 37,900 oz in September 1991. The plant ceased treatment in October 1992 and mill cleanup continued into January 1993.</p> <p>Between 1990 and 1993 Eastmet completed a programme of deep diamond drilling to test the extensions of Main Lode to a maximum of 750m vertical depth. Gold Mines of Australia Limited (GMA) was created in 1993 when Eastmet, Metana and Paragon Resources NL were merged. In October 1993, the GMA board approved development of the Youanmi Deeps underground mine. The ore was processed through a new 220 ktpa flotation and bacterial oxidation circuit, however the operation ultimately failed to achieve production targets, and the underground mine was closed in November 1997.</p>

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<b>Geology</b>	<i>Deposit type, geological setting and style of mineralisation.</i>	<p>The Youanmi gold deposits are hosted in the Youanmi Terrane.</p> <p>They were formed where a N-striking sequence of high-Fe tholeiitic mafic rocks and BIFs intersects a NNW-striking, variably WSW-dipping high-strain zone interpreted to be a sinistral-normal shear system.</p> <p>The foliation is axial planar to a S-plunging isoclinal synform. Mined deposits lie at various positions on this structure:</p> <ul style="list-style-type: none"> <li>• Western limb: Bunker, United North (E-dipping stratigraphy)</li> <li>• Hinge: Rebel, Kathleen (S-dipping stratigraphy)</li> <li>• Eastern limb: Hill End, Main Pit (W-dipping stratigraphy)</li> </ul> <p>The east limb of the folded mafic sequence is stopped out by the irregular intrusive contact of a large monzogranite intrusion. The exposed monzogranite-mafic contact has low strain, suggesting the intrusion of the monzogranite is late in the folding and formation of the foliation.</p> <p>Interflow sediments are altered chlorite-quartz-magnetite rocks up to several metres thick. These sediments have focussed much of the strain and frequently host auriferous shears.</p> <p>The mafics and monzogranite are intruded by intermediate porphyry bodies with complex geometric and timing characteristics.</p> <p>Gold mineralisation and alteration are localised in N- to NNW-striking, and moderately to steeply W-dipping anastomosing shear zones 1m to 20 m thick, averaging 3 to 4m. The mineralogy of the shear zones is sericite-quartz mylonites with abundant sulphides, chlorite and carbonate, with accessory biotite, rutile and apatite. The gold occurs within the pyrite and arsenopyrite, which may be up to 15% of the volume of the mylonite. They are interpreted to have formed relatively late in the geological history of the area, as they crosscut the foliation and the monzogranite.</p> <p>A lesser mineralisation style is quartz vein stockwork lodes within the monzogranite. These trend NNE and are the brittle equivalent of the ductile shear zones in the mafic. The quartz veins are usually steeply dipping and a few centimetres wide, with very high grades; coarse visible gold has been noted in drilling in the Grace prospect.</p> <p>Weathering has reached more than 80m below the natural surface. Previous open pit mining was almost entirely within the oxide zone.</p>
<b>Drillhole information</b>	<p><i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes:</i></p> <ul style="list-style-type: none"> <li>• Easting and northing of the drillhole collar</li> <li>• Elevation or RL (Reduced Level – elevation above sea level in metres) of the drillhole collar</li> <li>• Dip and azimuth of the hole</li> <li>• Downhole length and interception depth</li> <li>• Hole length.</li> </ul>	<p>Exploration Results are not being reported.</p>

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	<i>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</i>	Exploration Results are not being reported.
<b>Data aggregation methods</b>	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</i>	Exploration Results are not being reported.
	<i>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</i>	Exploration Results are not being reported.
	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	Exploration Results are not being reported.
<b>Relationship between mineralisation widths and intercept lengths</b>	<i>These relationships are particularly important in the reporting of Exploration Results.</i>	The mineralisation lodes dip at minus 45° to minus 60° to the southwest. Surface drillholes were angled at minus 60° to minus 70° and with an azimuth perpendicular to the lodes strike to provide as near a true. intercept thickness as realistically possible. Underground drillholes were drilled in fans at a limited number of drill locations; their intersections are highly variable with respect to true widths
	<i>If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.</i>	Exploration Results are not being reported.
	<i>If it is not known and only the downhole lengths are reported, there should be a clear</i>	Exploration Results are not being reported.

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	<i>statement to this effect (e.g. 'downhole length, true width not known').</i>	
<b>Diagrams</b>	<i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drillhole collar locations and appropriate sectional views.</i>	Relevant maps and diagrams are included in the body of this announcement.
<b>Balanced reporting</b>	<i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i>	Exploration Results are not being reported.
<b>Other substantive exploration data</b>	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	na
<b>Further work</b>	<i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i>	Work planned is as follows: <ul style="list-style-type: none"> <li>• Digitisation of the limited historical underground mapping</li> <li>• Cutting of unsampled historical core to add additional intersections to the interpretation.</li> <li>• The use of the historic stope pickups to refine the interpretation locally.</li> <li>• Additional infill and extensional drilling in Inferred Resource areas to upgrade resources to Indicated and target high grade zones identified in resource model.</li> </ul>

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	<i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	Relevant maps and diagrams are included in the body of this report.

### Section 3: Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
<b>Database integrity</b>	<i>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</i>	<p>The database is maintained by external service provider Geobase using the Azeva.XDB Database Management System.</p> <p>The database is stored using the Microsoft's SQL Server 2019 database engine on a Secure Network server running the latest SBS Administrative access to the database is restricted to Geobase Personnel only who have been trained in database management.</p> <p>All appropriate and valid changes requested from site are made only by Geobase. Site personnel do not have the ability to edit the database, which allows the integrity of the data to be maintained.</p> <p>Geobase generates a backup of the database and associated data on a regular basis.</p> <p>The database is configured to store assay quality control measures undertaken on the assaying.</p> <p>Historical data validation and recent data merging is undertaken using Azeva.X software and a number of additional third-party software suites.</p>
	<i>Data validation procedures used.</i>	<p>The data is subject to several validation procedures including code, multi-table and spatial. The database contains validation scripts which prevent non-standard character codes being used and checks numeric values against a minimum and maximum range.</p> <p>Historic codes have been made consistent with the new standardized coding system.</p> <p>Multi table validations have been conducted on all drill hole tables.</p> <p>All field generated data is checked for validity and completeness by Rox staff prior to being supplied to Geobase for compilation, additional validation and loading into the database.</p> <p>The Competent Person found no material errors and deemed the database was fit for the purpose of Mineral Resource estimation.</p>
<b>Site visits</b>	<i>Comment on any site visits undertaken by the Competent Person and the outcome of those visits.</i>	The Competent Person visited the site from the 22 <sup>nd</sup> to 23 <sup>rd</sup> of September 2021, and inspected open pits, geological exposures, diamond core, RC drilling, core and sample handling facilities, historic plans and sections and site infrastructure, as well as having discussions with Rox staff
	<i>If no site visits have been undertaken, indicate why this is the case.</i>	na
	<i>Confidence in (or conversely, the uncertainty of) the</i>	The interpretation is based on the resource drilling dataset, and a selection of intervals based on geology and assay data. This interpretation is supported by

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<b>Geological interpretation</b>	<i>geological interpretation of the mineral deposit.</i>	the long history of open pit and underground mining. Uncertainties will arise from the quantity and distribution of data.
	<i>Nature of the data used and of any assumptions made.</i>	No material assumptions have been made which affect the Mineral Resource reported herein.
	<i>The effect, if any, of alternative interpretations on Mineral Resource estimation.</i>	Uncertainties in the interpretations are due to the wide spacing of some of the drilling data. The interpretations are consistent with the previously mined stopes and are not likely to be materially deficient.
	<i>The use of geology in guiding and controlling Mineral Resource estimation. The factors affecting continuity both of grade and geology.</i>	<p>Modelling of mineralised lode wireframes used the Interval Selection function in Leapfrog Geo software. No minimum or maximum thickness parameters were used, and lodes generally cross-cut, except against the Mine Lode Shear, where there is evidence of truncation of minor structures.</p> <p>Merged tables were created in Leapfrog Geo, combining lithology and assay tables. The lode intersections were interpreted based on several characteristics, such as grade, shearing, degree of mylonitisation, veining, sulphide content, or alteration and bleaching. Intervals were generally selected using the assay tables, verified using core photographs and logging, except where historic core was unsampled, in which case lithology tables were used.</p> <p>Pinch-outs were applied manually around the peripheries and at roughly half of the average data-spacing, up to 40m. Drill intercepts were snapped to the wireframes.</p> <p>Core photography was utilised where available, for historical core, to determine hanging wall and footwall contacts, as well as to validate historical logging. Geological contacts were snapped to, with priority, over grade contacts, as some lower grade disseminated gold tends to be found outside of the visible shear contacts. So, in these cases the visible contacts were treated as hard boundaries.</p>
<b>Dimensions</b>	<i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i>	<p>Twenty one mineralised lodes have been modelled, along 2.8 km of strike length, comprising the Mine Lode and associated footwall and hanging wall lodes along the main trend corridor. The maximum depth of the main Lode interpretation is to approximately -600mRL, 1,060m below the natural surface. The Mine Lode is continuous down the dip for this length; other lodes have much more restricted down-dip extents.</p> <p>The hanging wall and footwall lodes are predominantly 0.5m-2m thick, while the Mine Lode is generally in the order of 1m-3m thick, but locally exceeds 10m.</p>
<b>Estimation and modelling techniques</b>	<i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen, include a description of computer software and parameters used</i>	<p>Existing wireframes were updated with additional assays since the previous resource also using Leapfrog Geo mining software. Some minor changes to the interpretation of the lodes were made based on additional assays with some lodes also deleted. A total of 21 mineralized lode wireframes were modelled comprising the Mine Lode and associated footwall and hanging wall lodes. No minimum or maximum thickness values were applied for interpretation of the lodes.</p> <p>A series of grade shells separating lower grade from higher grade parts of each lode were interpreted using Leapfrog Geo to allow reasonable modelling of the higher grade shoots within the lodes. The grade shells were created using an interpolation process in Leapfrog Geo involving a spherical structure with a nugget of 50% and base ranges ranging from 200 m to 500 m for each lode. Grade shells were interpreted at a range of different cut-offs for each lode ranging from 0.5 g/t Au to 2.0 g/t Au. The grade shell with the lowest cut-off grade and reasonable grade continuity was chosen for each lode; in most cases the 1.0 g/t Au shell was chosen. The grade shells and the lode wireframes were then exported out of Leapfrog Geo and imported into Geovia Surpac 2021 mining software. The wireframes were edited in Surpac if required to remove</p>

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		<p>anomalous artefacts and small volume, single intersection shapes. The resulting grade shell and lode wireframes were then used to code the drill hole database with the intersections.</p> <p>Fixed length sample composites were extracted for each lode according to the lode intersection coding. Composites were extracted for each lode to have a length of 1m with a minimum length of 0.5m. Grade shell wireframes for each lode were then used to isolate only sample composites inside each grade shell. Statistical distributions of grades inside each lode and corresponding grade shell were reviewed individually to determine high grade cuts (top cuts) that should be applied prior to grade estimation. Histograms and probability plots of grade distributions were analysed using Micromine mining software. A top cut analysis was also conducted for each lode in Micromine software. High grade cuts were applied that ranged from 4 g/t Au to 70 g/t Au and were applied to 7 grade shell wireframe objects and 11 lode wireframe objects.</p> <p>Variography was conducted using Snowden Supervisor mining software and using samples from the grade shell for object 1 (Mine Lode) – total of 1,606 samples, as this was the domain with the most samples and best continuity. Variograms were modelled for the down hole and all 3 orthogonal directions. The main direction of continuity was determined to be -20 towards 320 degrees with a maximum range of 150m and a nugget of 0.34. Three structures were modelled for each variogram direction. The variogram model for object 101 (grade shell for the Mine Lode) was applied to all other objects and adjusted for the local orientation.</p> <p>A block model rotated -30 degrees in azimuth only was created with parent block sizes 10m Y by 5m X by 5m Z and sub-block sizes 10m Y by 1.25m X by 1.25m Z, as per previous model. Lode wireframes and associated grade shells were coded into the block model and estimation zones were used to allocate differing orientations within the same lode. Three different rock material types were coded within the block model: oxide, transition and fresh rock. Densities were assigned for each of the rock material types: 2.2 t/m<sup>3</sup> for oxide, 2.6 t/m<sup>3</sup> for transition and 2.9 t/m<sup>3</sup> for fresh rock, as per the previous resource model. The majority of the material for the Youanmi Deeps was fresh rock.</p> <p>The grade estimate was conducted using Ordinary Kriging with 4 estimation passes with a grade limited search utilized for Passes 1 and 2. Gold grades with a top cut applied and Au grades without a top cut applied were estimated. The first pass utilized a search ellipsoid of 50m radius, with a minimum of 8 samples, maximum of 32 samples and maximum of 4 samples per hole. The second pass utilized a search ellipsoid of 100m radius, with a minimum of 6 samples, maximum of 32 samples and maximum of 4 samples per hole. The third pass utilized a search ellipsoid of 200m radius, with a minimum of 4 samples, maximum of 32 samples and maximum of 4 samples per hole. The final pass utilized a search ellipsoid of 500m radius, with a minimum of 2 samples, maximum of 32 samples and maximum of 4 samples per hole. Search ellipsoids were aligned with the orientation of the individual lode wireframes, with a semi-major ratio of 1:2, and a minor ratio of 1:3. A hard boundary was used to estimate blocks within each grade shell, while a soft boundary between the lode and the respective grade shell was used to estimate blocks inside the lode but outside the grade shell to retain some grade continuity. Check estimates using the Inverse Distance Weighted squared and the Nearest Neighbour methods were also completed for all blocks with the mineralized lodes.</p> <p>Estimation parameters applied to all lodes are tabulated below:</p>

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		<table border="1"> <thead> <tr> <th>Parameter</th> <th>Pass 1</th> <th>Pass 2</th> <th>Pass 3</th> <th>Pass 4</th> </tr> </thead> <tbody> <tr> <td>Major search distance</td> <td>50m</td> <td>100m</td> <td>200m</td> <td>500m</td> </tr> <tr> <td>Semi-major search distance</td> <td>25m</td> <td>50m</td> <td>100m</td> <td>250m</td> </tr> <tr> <td>Minor search distance</td> <td>17m</td> <td>33m</td> <td>67m</td> <td>167m</td> </tr> <tr> <td>Minimum composites</td> <td>8</td> <td>6</td> <td>4</td> <td>2</td> </tr> <tr> <td>Maximum composites</td> <td>32</td> <td>32</td> <td>32</td> <td>32</td> </tr> <tr> <td>Maximum composites per hole</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>Variogram type</td> <td colspan="4">Nested spherical</td> </tr> <tr> <td>C0 Nugget</td> <td colspan="4">0.34</td> </tr> <tr> <td>C1 Partial sill</td> <td colspan="4">0.43</td> </tr> <tr> <td>A1 Major direction range</td> <td colspan="4">9.3m</td> </tr> <tr> <td>A1 Semi-major range</td> <td colspan="4">9.3m</td> </tr> <tr> <td>A1 Minor direction range</td> <td colspan="4">9.3m</td> </tr> <tr> <td>C2 Partial Sill</td> <td colspan="4">0.173</td> </tr> <tr> <td>A2 Major direction range</td> <td colspan="4">30m</td> </tr> <tr> <td>A2 Semi-major range</td> <td colspan="4">20m</td> </tr> <tr> <td>A2 Minor direction range</td> <td colspan="4">20m</td> </tr> <tr> <td>C3 Partial sill</td> <td colspan="4">0.057</td> </tr> <tr> <td>A3 Major direction range</td> <td colspan="4">150m</td> </tr> <tr> <td>A3 Semi-major range</td> <td colspan="4">60m</td> </tr> <tr> <td>A3 Minor direction range</td> <td colspan="4">60m</td> </tr> </tbody> </table>	Parameter	Pass 1	Pass 2	Pass 3	Pass 4	Major search distance	50m	100m	200m	500m	Semi-major search distance	25m	50m	100m	250m	Minor search distance	17m	33m	67m	167m	Minimum composites	8	6	4	2	Maximum composites	32	32	32	32	Maximum composites per hole	4	4	4	4	Variogram type	Nested spherical				C0 Nugget	0.34				C1 Partial sill	0.43				A1 Major direction range	9.3m				A1 Semi-major range	9.3m				A1 Minor direction range	9.3m				C2 Partial Sill	0.173				A2 Major direction range	30m				A2 Semi-major range	20m				A2 Minor direction range	20m				C3 Partial sill	0.057				A3 Major direction range	150m				A3 Semi-major range	60m				A3 Minor direction range	60m			
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	<p>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</p>	<p>The current resource has been compared to both the previous production and previous resource estimates.</p> <p>The project has been mined by both underground and open pit methods intermittently over a period of about 90 years. Previous production recorded from Youanmi are tabulated below.</p> <table border="1"> <thead> <tr> <th>Years</th> <th>Tonnes Milled</th> <th>Head Grade</th> <th>Recovered Grade</th> <th>Recovery</th> <th>Au produced (oz)</th> </tr> </thead> <tbody> <tr> <td>1908 to 1921</td> <td>339,000</td> <td></td> <td>15.2</td> <td></td> <td>166,000</td> </tr> <tr> <td>1937 to 1942</td> <td>365,000</td> <td></td> <td>8.1</td> <td></td> <td>95,000</td> </tr> <tr> <td>Other</td> <td>46,000</td> <td></td> <td>10.2</td> <td></td> <td>15,000</td> </tr> <tr> <td>1987 to 1993<sup>1</sup></td> <td>2,665,535</td> <td>3.43</td> <td>3.07</td> <td>89.4%</td> <td>262,717</td> </tr> <tr> <td>1995 to 1997</td> <td>411,858</td> <td>11.36</td> <td>9.69</td> <td>85.3%</td> <td>128,278</td> </tr> <tr> <td><b>3,827,393</b></td> <td></td> <td></td> <td><b>5.42</b></td> <td></td> <td><b>666,995</b></td> </tr> </tbody> </table> <p>1. Includes 154,000t @ 18.0g/t Au for 89,000oz from the satellite Penny West Project.</p> <p>The previous resource estimates were created by consultants CSA Global, and reported at a 4 g/t cutoff:</p> <table border="1"> <thead> <tr> <th rowspan="2">Creator</th> <th rowspan="2">Date</th> <th colspan="3">Indicated</th> <th colspan="3">Inferred</th> </tr> <tr> <th>Tonnes Mt</th> <th>Au g/t</th> <th>Au '000 oz</th> <th>Tonnes Mt</th> <th>Au g/t</th> <th>Au '000 oz</th> </tr> </thead> <tbody> <tr> <td>CSA Global</td> <td>2021</td> <td>1.1</td> <td>8.2</td> <td>290</td> <td>2.3</td> <td>7.7</td> <td>566</td> </tr> </tbody> </table>	Years	Tonnes Milled	Head Grade	Recovered Grade	Recovery	Au produced (oz)	1908 to 1921	339,000		15.2		166,000	1937 to 1942	365,000		8.1		95,000	Other	46,000		10.2		15,000	1987 to 1993 <sup>1</sup>	2,665,535	3.43	3.07	89.4%	262,717	1995 to 1997	411,858	11.36	9.69	85.3%	128,278	<b>3,827,393</b>			<b>5.42</b>		<b>666,995</b>	Creator	Date	Indicated			Inferred			Tonnes Mt	Au g/t	Au '000 oz	Tonnes Mt	Au g/t	Au '000 oz	CSA Global	2021	1.1	8.2	290	2.3	7.7	566																																									
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	<i>The assumptions made regarding recovery of by-products.</i>	na																									
	<i>Estimation of deleterious elements or other non-grade variables of economic significance (e.g. sulphur for acid mine drainage characterisation).</i>	No deleterious or non-grade elements have been estimated.																									
	<i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i>	The dimensions of the parent block used for estimation represents in 10mY by 5m X by 5mZ, with sub-celling in X and Z to 1.25m; the blocks are rotated into the strike direction (minus 30 degrees rotation). An ellipsoid search was employed with search distances for estimation ranging from 50m to 500m. The drillhole spacing is highly variable, typically 40m to 80m for surface diamond drilling.																									
	<i>Any assumptions behind modelling of selective mining units.</i>	na																									
	<i>Any assumptions about correlation between variables</i>	No assumptions have been made regarding the correlation of variables.																									
	<i>Description of how the geological interpretation was used to control the resource estimates.</i>	Logged geology, alteration and structural controls were used in the interpretation of lodes within the resource model. A hard boundary was used for estimation within the grade shells while a soft boundary was used for estimation outside the grade shells but within the mineralised lode to retain some grade continuity.																									
	<i>Discussion of basis for using or not using grade cutting or capping.</i>	High-grade cuts were applied to reduce the effect of outlier grades and reduce the Coefficient of Variation to a value less than 2, if possible. High grade cuts were applied to 7 grade shell objects and 11 mineralised lode objects and ranged from 4 g/t Au to 70 g/t Au.																									
	<i>The process of validation, the checking process used, the comparison of model data to drillhole data, and use of reconciliation data if available.</i>	<p>The grade estimate was validated by three different methods:</p> <ul style="list-style-type: none"> <li>▪ Visually – displaying block grades with drill hole sample grades for direct visual comparison</li> <li>▪ Mathematical by lode – the average block grade for each lode and compare to the average sample composite grades for each lode</li> <li>▪ Mathematical by swath plot – the average block grades for “swathes” or intervals of easting, northing and elevation compared to the average composite grades for the same intervals. Simultaneous comparisons were made with the estimated Ordinary Kriging, Inverse Distance Weighted and Nearest Neighbour grades with the sample composite grades</li> </ul> <p>The overall validation showed the estimated grades are reasonable compared to the composite grades, with some slight over-estimation in the deeper areas below -275m RL. The majority of this material has been classified as Inferred</p> <p>The comparison of input and estimated values is tabulated below.</p> <table border="1"> <thead> <tr> <th>Object/Domain</th> <th>Composite Grade g/t</th> <th>Au OK g/t</th> <th>Au ID g/t</th> <th>Au NN g/t</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>8.24</td> <td>7.15</td> <td>7.42</td> <td>7.32</td> </tr> <tr> <td>102</td> <td>3.78</td> <td>4.32</td> <td>4.26</td> <td>3.99</td> </tr> <tr> <td>103</td> <td>5.92</td> <td>5.17</td> <td>5.18</td> <td>5.08</td> </tr> <tr> <td>104</td> <td>9.63</td> <td>7.72</td> <td>7.11</td> <td>1.87</td> </tr> </tbody> </table>	Object/Domain	Composite Grade g/t	Au OK g/t	Au ID g/t	Au NN g/t	101	8.24	7.15	7.42	7.32	102	3.78	4.32	4.26	3.99	103	5.92	5.17	5.18	5.08	104	9.63	7.72	7.11	1.87
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		105	10.43	9.17	8.91	7.92
		106	9.56	9.66	10.51	11.17
		107	3.68	2.81	2.25	1.46
		108	4.96	4.60	4.77	4.79
		109	5.04	4.80	4.97	5.48
		110	2.33	2.30	2.43	2.70
		111	2.04	1.51	1.51	1.61
		112	3.34	2.83	2.73	2.39
		113	9.57	7.08	7.58	5.72
		114	4.26	3.42	3.50	3.04
		115	3.74	3.46	3.71	2.83
		116	3.02	2.63	2.38	1.77
		117	3.04	1.89	2.08	0.03
		118	2.1	2.96	2.59	2.70
		119	0.63	0.63	0.66	0.67
		120	5.39	4.83	5.03	4.75
		121	5.91	4.03	4.92	2.78
		1	6.16	3.24	2.82	1.64
		2	2.32	1.12	1.08	0.67
		3	5.61	5.43	4.83	4.54
		4	7.76	7.49	4.73	1.22
		5	8.47	8.55	8.42	6.58
		6	5.87	4.38	4.03	3.24
		7	1.79	1.17	1.01	0.67
		8	5.41	7.00	7.93	10.90
		9	2.91	2.72	2.58	3.32
		10	1	1.03	1.07	0.91
		11	0.61	0.61	0.59	0.54
		12	1.54	1.11	1.08	0.50
		13	2.77	2.16	2.30	1.51
		14	3.61	1.95	1.52	0.62
		15	2.28	1.84	0.93	0.85
		16	2.18	1.08	0.77	0.51
		17	1.18	1.00	0.82	0.50
		18	1.53	2.41	1.20	1.34
		20	0.63	2.46	2.26	1.70
		21	4.65	3.00	3.46	3.76
		<b>Total</b>	<b>4.24</b>	<b>3.98</b>	<b>3.82</b>	<b>3.39</b>
<b>Moisture</b>	<i>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</i>	Tonnages have been estimated on a dry basis.				
<b>Cut-off parameters</b>	<i>The basis of the adopted cut-off grade(s) or quality parameters applied.</i>	The Mineral Resources were reported at a 3 g/t and 4 g/t cut-off. 4 g/t was the cut-off previously reported by Jankowski (2021); 3 g/t is based on preliminary assessment of the costs of underground mining at the gold price of AUD2,000/oz.				
<b>Mining factors or assumptions</b>	<i>Assumptions made regarding possible mining</i>	Due to the depth, and the previously developed underground mine, the resource is considered suitable for underground mining by long hole open				

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	<p><i>methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</i></p>	<p>stoping. Previously mined areas may be accessible by the use of cemented fill. No detailed mining assumptions have been made and no external dilution has been added to the resource.</p>
<p><b>Metallurgical factors or assumptions</b></p>	<p><i>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</i></p>	<p>A 120 tpd bacterial oxidation circuit was commissioned in September 1994 to treat sulphide concentrates, using the BacTech process. BacTech uses a moderately thermophilic culture with an optimum growth temperature of 45C. A pilot plant trial from October 1993 to July 1994 tested three bulk samples of concentrate. After bacterial oxidation, recoveries up to 99% were achieved.</p> <p>The performance between 1995 and 1997 of the flotation and bacterial oxidation circuit was generally lower than budgeted due almost entirely to below budget ore deliveries. Although the plant rarely achieved its full capability, it consistently exceeded the projected metallurgical recovery of 81%, with an average recovery of 87.5%.</p> <p>Blending of ore was not anticipated prior to commissioning and feed variability created significant problems for both the flotation and bacterial oxidation circuits.</p> <p>Operating performance history demonstrates a steadily increasing recovery, with initial commissioning values of 85% increasing rapidly to a maximum of 92.4% in 1994-95. This is indicative of improving metallurgical control and diminishing amounts of reactive sulphide from transitional zones. Based on historical operating data, one of the most significant factors affecting both throughput and recovery was mechanical and equipment failures within the bio-oxidation circuit.</p> <p>Work was conducted in 2021 by OMC Mineral Consultants to define the characteristics of the ore and defining flowsheet options. Work involved two phases of mineralogical investigation; thin sections from core and quantitative analysis using electron microscopy, XRD and laser ablation ICP-MS. Metallurgical extraction test work included comminution test work, whole of ore leach tests and flotation test work. The flotation concentrate was subject to 4 extraction options; Ultrafine Grinding to P80 of 15 and 10 micron material, basic two-stage roasting, basic pressure oxidation (POX) and Neutral Albion Leach (NAL).</p> <p>The study concluded the recommended flowsheet for the scoping study would comprise grinding to P80 at 75 micron, flotation, Albion processing of the concentrate, cyanide leaching of the processed concentrate and separate cyanide leaching of the flotation tail with carbon adsorption to recover the gold from solution</p>

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<b>Environmental factors or assumptions</b>	<i>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered, this should be reported with an explanation of the environmental assumptions made.</i>	No assumptions regarding possible waste and process residue disposal options have been made. Youanmi is a previously mined site, with historic waste dumps and tailings dams.
<b>Bulk density</b>	<i>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</i>	Bulk density data is predominantly derived from some standard Specific Gravity (SG) immersion measurements carried out between 1989 and 1992. Within the interpreted mineralised lodes, the mean density of the samples was 2.96t <sup>m</sup> <sup>-3</sup> . It was not deemed possible to subdomain this dataset into areas of differing bulk density values. A single value of 2.9t <sup>m</sup> <sup>-3</sup> was assigned to the fresh lode material throughout the deposit.
	<i>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc.), moisture and differences between rock and alteration zones within the deposit.</i>	The water immersion method measurements were determined by measuring the weight of part or the entire sample in air and water and then applying the formula bulk density = weight <sub>air</sub> /(weight <sub>air</sub> -weight <sub>water</sub> ).
	<i>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</i>	na
<b>Classification</b>	<i>The basis for the classification of the Mineral Resources into varying confidence categories.</i>	The Mineral Resource was classified as Indicated or Inferred based on the level of geological understanding of the mineralisation and the drillhole spacing. Drill hole sample spacing was the primary metric with Indicated Resources classified where sample spacing was 40m or less and Inferred Resources where sample spacing was greater than 40m. Areas of sample spacing greater than 200m were not classified.

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	<i>Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</i>	The classification reflects the overall level of confidence in mineralised domain continuity based on the drill sample data numbers, spacing and orientation, QAQC results, survey control and drilling methods and geological interpretation.
	<i>Whether the result appropriately reflects the Competent Person's view of the deposit.</i>	The Mineral Resource classifications applied appropriately reflect the view of the Competent Person.
<b>Audits or reviews</b>	<i>The results of any audits or reviews of Mineral Resource estimates.</i>	The Mineral Resource was audited by an independent, third party consultant, CSA Global, which verified the technical inputs, methodology, parameters and results of the estimate
<b>Discussion of relative accuracy/confidence</b>	<i>Where appropriate, a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</i>	The accuracy of the Mineral Resource is communicated through the classification assigned. The Mineral Resource been classified in accordance with the JORC Code (2012 Edition) using a quantitative and qualitative approach. All factors that have been considered have been adequately communicated in Section 1 and Section 3 of this table.
	<i>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</i>	The accuracy of the Mineral Resource is communicated through the Inferred or Indicated classification assigned to the deposit. The Mineral Resource has been classified in accordance with the JORC Code. All factors that have been considered have been adequately communicated in Section 1, Section 2 and Section 3 of this table.  The Mineral Resource Statement relates to a global estimate of in-situ tonnes and grade.
	<i>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i>	The depleted stopes and development from the 1995-1997 period produced 411kt @ 11.4 g/t. The current model in the same area has 764 kt @ 10.2 g/t. Discrepancy in quantity is due to the conservative approach to coding the mined material in the model. The minor grade difference is likely due to the increased resolution of sampling used to obtain higher grades in samples during

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		production. Further analysis and modelling is required to understand the differences and refine the model.

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