



# EXPLORATION UPDATE AT MORNING STAR GOLD MINE CONFIRMATION OF NEW MINERALISED REEF WITH ABUNDANT VISIBLE GOLD

AuStar Gold Limited (ASX: AUL) ('AuStar Gold' or 'the Company') is pleased to provide an additional update in relation to its current diamond drilling program at the Morning Star Gold Mine:

#### **Highlights**

- AuStar has discovered two mineralised reef systems:
  - McNally's Reef: new mineralised reef, with the following significant intercepts:
    - L7024: 1.81m @ 12.49 g/t Au from 27.70m downhole, including 0.33m @ 51.26 g/t Au
    - L7026: 2.28m @ 7.70 g/t Au from 3.50m downhole including 0.54m @ 14.50 g/t Au & 0.33m @ 12.00 g/t Au
    - L7029: abundant visible gold observed in drill core
  - Stones Reef: a drilling program has now concluded on this newly mineralised section of Stone's Reef, with the following final hole intercepts:
    - L7023: 0.65m @ 17.02 g/t Au from 43.25m downhole, including 0.30m @ 29.36 g/t Au
- AuStar's ongoing exploration program is critical to build a minerals inventory to provide continuity of ore supply for sustainable economic production

CEO Mr Tom de Vries said: "The first round of exploration drilling has proven to be successful in this new zone. We have defined a new mineralised section of the Stones reef system, and in the process discovered a previously unknown mineralised reef structure (now named the McNally's reef) near 7 Level. Significant coarse gold has been observed. These results give us significant scope for future potential development.

"The success of AuStar's accelerated exploration program is critical in identifying a minerals inventory to provide continuity of future ore supply, allowing us to generate sustainable economic production for the Company.

"As part of our current exploration strategy we will now target certain previously identified areas while we continue to collate and analyse all relevant data to include the recent drilling.

The current program should see additional results generated and reported over the coming weeks."

ASX Release Page 1 of 11



## **Drill Program in the Target Zones**

As previously reported in recent ASX announcements, AuStar has now completed the first phase of drilling into an area of the Stones reef between 8 Level and 9 Level of the Morning Star gold mine. A full review of the economics and additional potential of this zone is ongoing.

Additional drilling has now been completed into the recently identified reef structure (McNally's Reef) located proximal to the 7 Level. The initial phase of six (6) drill holes has now been completed with some assays still to be received. A full review will be undertaken to determine additional drill targets within the structure, which is still open to the north and south.

While data collation and geological modelling is occurring the drill rig has been moved to commence drill testing of the Stacpoole North target around drill hole MS357 (4.10m @ 18.80 g/t Au - incl. 0.30m @ 216.00g/t Au). Stacpoole North is the second of the three initial exploration targets identified by AuStar within the Morning Star Dyke.

#### **Drilling Results**

The first pass drill program has now been completed for the 7 Level. Drilling has confirmed the presence of a continuation of the Stones mineralised structure between 8 and 9 Levels (Figure 2).

The final hole in the Stones program L7023; where minor visible gold was seen (ASX:AUL 30 Aug 2018), returned an intersection of **0.65m** @ **17.2g/t au.** The Stones zone will now be reviewed to determine if further drilling is warranted into the Stones structure and to have its economic potential evaluated.

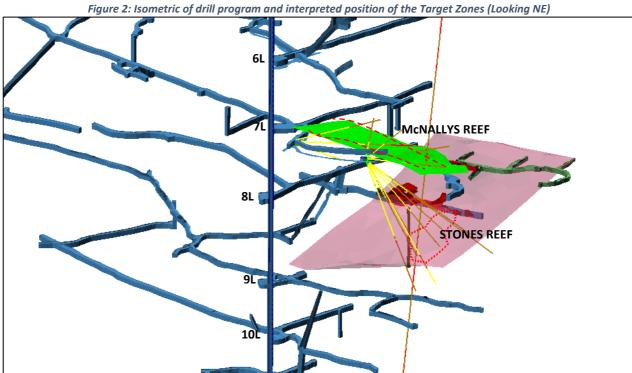
An additional six (6) drill holes have also been completed into the recently identified McNally's structure with assay results from the last two holes still pending. The final drill hole (L7029) intersected the McNally's structure at a very low angle; resulting in the hole running down the length of the zone for approximately 9 metres. Multiple pieces of coarse gold were observed towards the end of the intersection over a length of approximately 1.20 metres, within the quartz veining and also within associated pyrite (Photograph 1).



Photograph 1: Visible Gold (inside blue circles) from 42.70m. Drill hole L7029.

Page 2 of 11





6L	McNALLYS REEF
8L (	STONES REEF
9L = 10L	7

HOLE ID	Sample ID	From	То	Interval	Grade (g/t) Au	Comment
L7023	A7282	43.25	43.60	0.35	6.44	Combined to 0.65m @
L7023	A7284	43.60	43.90	0.30	29.36	17.02g/t Au - Stone Reef
L7024	A7309	27.70	28.27	0.50	3.23	Combined to 1.91m.
L7024	A7310	28.27	28.78	0.51	2.76	Combined to 1.81m @
L7024	A7311	28.78	29.18	0.40	6.09	12.49g/t Au - McNally Reef
L7024	A7312	29.18	29.51	0.33	51.26	
L7025	A7334	24.40	25.05	0.65	2.33	McNally Reef
L7026	A7343	3.50	4.20	0.70	4.40	
L7026	A7344	4.20	4.74	0.54	14.5	Combined to 2.28m @ 7.70g/t Au – McNally Reef
L7026	A7345	4.74	5.10	0.36	0.63	
L7026	A7346	5.10	5.45	0.35	7.74	
L7026	A7347	5.45	5.78	0.33	12.00	
L7026	A7351	7.45	7.66	0.21	4.26	

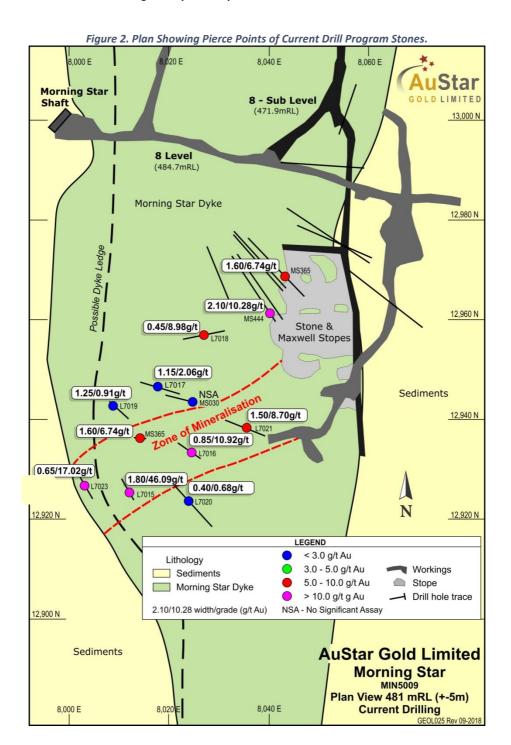
Table 2. Drill Hole Locations.

Hole_ID	MineGrid East	MineGrid North	RL (m)	Dip	Dir (MineGrid)	EOH (m)	Status
L7023	7999.10	12950.15	515.68	-55	172.5	55.00	0.65m @ 17.02 g/t Au
L7024	7999.6*	12950.3*	516.9*	-06	105.5	40.80	1.81m @ 12.49 g/t Au
L7025	7999.8*	12950.4*	516.8*	-09	135.0	30.80	0.65m @ 2.33 g/t Au
L7026	7999.6*	12951.5*	517.0*	+17	058.5	25.50	2.28m @ 7.70g/t Au
L7027	7995.1*	12984.1*	517.6*	+16	144.5	35.50	Assays Pending
L7028	7995.2*	12984.2*	515.2*	-16	146.5	21.00	Assays pending. Abandoned @
							21.0m - bit failure.
L7029	7995.2*	12984.2*	56.8*	+01	144.5	51.40	Assays Pending

Page 3 of 11 ASX Release



\*Coordinates are from drill design. Not yet surveyed.



ASX Release Page 4 of 11



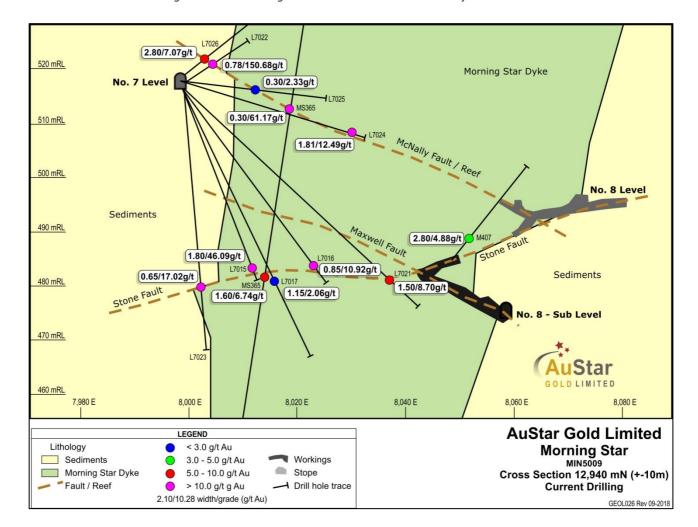


Figure 3. Cross Showing Pierce Points on Stones and McNally's Structures.

#### **About AuStar Gold Limited:**

AuStar Gold is focused on building a valuable minerals inventory to generate sustainable economic production from its portfolio of advanced high-grade gold projects - with significant infrastructure including processing plant, a strategic tenement footprint, and prospectively -well positioned for near-term mining.

In addition, AuStar Gold intends to develop its adjoining tenements in the Walhalla to Jamieson gold district (particularly the prolific Woods Point Dyke Swarm) into low cost high grade gold production projects.

### For Further Information:

Tom de Vries Chief Executive Officer AuStar Gold Limited info@austargold.com

ASX Release Page 5 of 11



#### **Competent Persons Statement**

The information in this report that relates to exploration activities and exploration results is based geological information compiled by Mr Peter de Vries, (BAppSc) a consulting geologist, on behalf of AuStar Gold Limited. Mr de Vries is a member of the Australasian Institute of Mining and Metallurgy (MAIMM) and the Australian Institute of Geoscientists (MAIG) and is a Competent Person as defined by the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code), having more than five years' experience which is relevant to the style of mineralisation and type of deposit described in this report, and to the activity for which he is accepting responsibility. Mr de Vries consents to the publishing of the information in this report in the form and context in which it appears.

#### **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialized industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sounds, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple.</li> </ul>	<ul> <li>Full drill core has been submitted for analysis. The drill core is LTK 48 (35.3mm diameter) in size.</li> <li>Sample intervals are between 0.30 and 1.0 metres as the mineralization consists of multiple narrow veins within a diorite host.</li> <li>Samples are dried and pulverized to 90% passing -75µm</li> <li>50g charge is taken and fire assayed to produce solid prill.</li> <li>Prill is dissolved in acid and grade determined by AAS.</li> </ul>
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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).	<ul> <li>The Morning Star diamond drilling program is being undertaken utilizing a pneumatically powered Kempe diamond drill producing LTK 48 size drill core (and capable of drilling up and down holes to angles of ~85 degrees.</li> <li>Drilling is being carried out by rig owned by Starwest Drilling.</li> <li>Down hole surveys have been carried out.</li> <li>All collar positions will be surveyed upon completion of the program</li> </ul>
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<ul> <li>The core is marked up and measured by geologists. Core recovered (CR) is compared with the metres drilled (MD, recorded by the drillers in their 'run sheets') and a 'core recovery' percentage is calculated; CR/MD x 100 = % recovered.</li> <li>Vein density is random and variable within the gross structural controls. Vein orientation takes two preferred orientations. The</li> </ul>

ASX Release Page 6 of 11



Criteria	JORC Code explanation Commentary
	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.  general "type' vein orientation is a flat ~10 degree dipping TVA with the second orientation being a conjugate set which are generally smaller but cut the previous veinset with minor displacements
Logging	<ul> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> <li>Logs exist for all of the drillholes on the property. The history of Exploration on the property has seen the one set of log codes utilized consistently.</li> <li>The logging describes the dominant and minor rock types, colour, mineralisation, oxidation, alteration, vein type, core recovery, basic structure (hardness has not been logged).</li> <li>Some geotechnical logging has taken place, though in most cases the existence of extensive underground development has meant that geotechnical work has been more focused on underground exposures.</li> <li>Core is photographed after markup and before sampling.</li> <li>Marked core for sampling is also photographed.</li> </ul>
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of</li> <li>Full core has been sampled</li> <li>Core samples were assayed at the Gekko laboratory located in Ballarat.</li> <li>Total pulverization before subsampling for assay is carried out at the lab by grinding via a mixer mill to 90% passing -75 microns.</li> <li>Final grade determination is by Fire Assay with an AAS finish.</li> <li>Fire assay charge size is 50 grams.</li> </ul>
Quality of assay data and laboratory tests	<ul> <li>the material being sampled.</li> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias)</li> <li>A standard sample is randomly inserted for approximately every 15 – 20 samples that are submitted. Laboratory blanks and random rechecks are also utilized by Gekko</li> </ul>

ASX Release Page 7 of 11



Criteria	JORC Code explanation (	Commentary
Verification of sampling and assaying	and precision have been established.  The verification of significant intersections by either independent or alternative company personnel.  The use of twinned holes.  Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	<ul> <li>All reported data was subjected to validation and verification prior to release</li> <li>Submitted standards are tabled and compared to stated value</li> <li>Data from logging and assay is being entered into excel and imported into a 3D computer modeling programs for modeling and geological analysis.</li> </ul>
Location of data points  Data spacing and distribution	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the</li> </ul>	<ul> <li>All holes were located by direct measurement from underground survey points. Contract surveyors will pick up collars on completion of program for high level of accuracy.</li> <li>The coordinates used are a local mine grid with Morning Star Shaft collar points used as centre coordinate 8000mE and 13000mN. The vertical axis is ASL (m). All bearings are rotated 48 degrees counter-clockwise from true (Grid) north, 60.5 degrees from Magnetic North.</li> <li>The topography control is of a high standard.</li> <li>Drilling has been carried out from underground drill cuddies. Reported drill holes are designed to intersect projected structural target at around 10 metre centres</li> <li>The aim of the drill program is to test for the presence of unmined mineralised structures that may contain economically definable amounts of gold.</li> <li>Sample compositing has not been applied</li> </ul>
Orientation of data in relation to geological structure  Sample security	<ul> <li>Whether sample compositing has been applied.</li> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> <li>The measures taken to ensure sample security.</li> </ul>	<ul> <li>The drilling has been targeted to intersect mineralized veins at a steep angle, although some oblique holes have been drilled due to the locations of available drill sites. However, this has been taken into account in such a way as to eliminate sampling bias.</li> <li>No significant sample bias based on drill hole orientation is noted</li> <li>The mineralisation at the Morning Star mine consist of quartz infilled reverse faults of varying dips and orientations located with the Morning Star Diorite dyke.</li> <li>The chain of custody for samples was managed by AuStar Gold Ltd, with an established set of procedures designed to maintain sample security</li> </ul>
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No independent review has been undertaken of the announced drill results

ASX Release Page 8 of 11



# **Section 2 Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul> <li>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.</li> <li>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.</li> </ul>	<ul> <li>The Morning Star mine is located within MIN5009, which is wholly owned by AuStar Gold and its subsidiaries.</li> <li>The assets were acquired from receivers in 2016.</li> <li>The Morning Star mine is located approximately 90km southeast of Mansfield in Eastern Victoria, near the town of Woods Point.</li> <li>The Rose of Denmark lies within MIN5299 and is wholly owned by AuStar Gold and its subsidiaries.</li> </ul>
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	<ul> <li>The Morning Star Gold mine has been intermittently active since 1861, with a large number of owners and operators.</li> <li>The mine was operated by Gold Mines of Australia between 1930 and 1960, and then briefly operated by Morning Star Gold Mines NL until 1963. Production up to that point has been variably estimated to be between 630,000 and 830,000 oz Au at grades from 25-30 g/t Au.</li> <li>Mount Conqueror acquired the asset in 1993 and carried out exploration development under that name and then subsequently under the name of Morning Star Gold. The company went into suspension in June 2012 and receivership in 2014.</li> </ul>
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>The project area lies within the Woods Point – Walhalla Synclinorium structural domain of the Melbourne zone, a northwest-trending belt of tightly folded Early Devonian Walhalla Group sandy turbidites. The domain is bounded by the Enoch's Point and Howe's Creek Faults, both possible detachment-related splay structures that may have controlled the intrusion of the Woods Point Dyke Swarm and provided the conduits for gold-bearing hydrothermal fluids. The local structural zone is referred to as the Ross Creek Faults Zone (RCFZ)</li> <li>Most gold mineralisation in the Woods Point to Gaffney's Creek corridor occurs as structurally-controlled quartz ladder vein systems hosted by dioritic dyke bulges. Rose of Denmark exhibits all these characteristics</li> </ul>
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:  a easting and northing of the drill hole collar  elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar  dip and azimuth of the hole down hole length and interception depth  hole length.	See table in above document

ASX Release Page 9 of 11



Criteria	JORC Code explanation	Commentary
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut- off grades are usually Material and should be stated.</li> <li>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.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul> <li>In all previous ASX releases the assays are given 'un-cut' unless otherwise stated &amp; weighted averaging of results is used: in which the average grade is the sum of the products of length and grade for each sample in the interval, divided by the total length of the interval. A nominal cutoff of 0.1g/t is used for identification of potentially significant intercepts for reporting purposes.</li> <li>Most of the reported intercepts are shown in sufficient detail, including gold maxima and subintervals, to allow the reader to make an assessment of the balance of high and low grades in the intercept.</li> <li>Metal equivalents are not used.</li> </ul>
Relationship between mineralisatio n widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul> <li>Mineralised structures at Morning Star are variable in orientation, and therefore drill orientations have been adjusted from place to place in order to allow intersection angles as close as possible to true widths.</li> <li>Exploration results have been reported as an interval with 'from' and 'to' stated in tables of significant economic intercepts. Tables clearly indicate that true widths will generally be narrower than those reported.</li> <li>An estimate of true width can be made based on the known strike of mineralised quartz veins or quartz breccias, although it should be noted that these features are not absolutely planar and anastomosing does occur, with variable strike and dip.</li> </ul>
Diagrams	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 drill hole collar locations and appropriate sectional views.	See attached figures and plates.
Balanced reporting	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.	Only initial significant results for the first hole is shown . Future drilling results will be followed by basic data.
Other substantive exploration data	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	<ul> <li>Results of an ongoing structural reappraisal of the mine are presented in some of the diagrams in this release.</li> <li>These diagrams are schematic in nature based on field observations yet to be fully digitized in 3D space (this work is ongoing)</li> </ul>

ASX Release Page 10 of 11



Criteria	JORC Code explanation	Commentary
	characteristics; potential deleterious or contaminating substances.	
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale stepout drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Further exploration drilling from underground is planned, along in order to gain confidence regarding drilled grades.</li> <li>Gaining a correlation between drilled grades and recovered grades from large scale sampling is a key aim of this program and will be a significant factor in reporting resources and reserves to appropriate standards</li> </ul>

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

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.) Section 3 does not pertain to this report.

# **Section 4 Estimation and Reporting of Ore Reserves**

(Criteria listed in section 1, and where relevant in sections 2 and 3, also apply to this section.) Section 4 does not pertain to this report.

ASX Release Page 11 of 11