

### **ASX ANNOUNCEMENT / MEDIA RELEASE**

**ASX:ABU** 

14 December 2017

# **Bluebush Reconnaisance Drilling Aircore Results**

### **HIGHLIGHTS**

- 64 holes of first pass reconnaissance aircore drilling completed on 3 targets at Bluebush
  - Hornblower 24 holes
  - Indefatigable 12 holes
  - Wild Turkey 28 holes
- Anomalous gold results intersected in 3 holes
  - 3m @ 71ppb Au from 6m (BL0144) Indefatigable
  - 3m @ 99ppb Au from 21m (BL0122) Wild Turkey
  - 2m @ 47ppb Au from 57m (BL0072) Hornblower
- Follow up aircore drilling planned for March/April as part of the Capstan drilling campaign

ABM Resources ('ABM' or the 'Company') is pleased to announce additional aircore results from the Bluebush Gold Project located in the Tanami Goldfields of the Northern Territory. The Bluebush Project, covering Capstan, Wild Turkey, Indefatigable and Hornblower, is located 50km to the northwest of the world class Callie deposit.

The 64 hole aircore drilling program was designed to test anomalous geochemical and structural targets and collect reconnaissance data to screen for new large scale anomalies. The first results from within this campaign of drilling have already outlined 8 kilometres of gold anomalism at Capstan (ASX 21 November 2017).

Assay results from drilling at Wild Turkey, Indefatigable and Hornblower are now reported. Shallow gold intersections from the wide spaced reconnaissance aircore include:

- 3m @ 71ppb Au from 6m (BL0144) Indefatigable
- 3m @ 99ppb Au from 21m (BL0122) Wild Turkey
- 2m @ 47ppb Au from 57m (BL0072) Hornblower

The results confirm the presence of quartz veining and alteration, with gold mineralisation in oxide and bedrock beneath large scale soil arsenic anomalies. In this style of mineralisation intersections of >100 ppb arsenic or >50 ppb gold typically define the extents of the systems. Intersections of >200 ppb gold often indicate a mineralised structure has been intersected or is nearby.

Managing Director Matt Briggs said "The current program aimed to collect reconnaissance data. In spite of the broad spacing of the drilling, the program completed has confirmed anomalous gold with several holes warranting follow-up drilling."

"The current strategy of systematic bedrock testing continues to demonstrate that arsenic anomalies identified in historic soil sampling have not been effectively screened for gold mineralisation."

"These high priority targets will be drilled, along with the 8km long gold anomaly recently identified at Capstan, in the first aircore campaign of 2018."

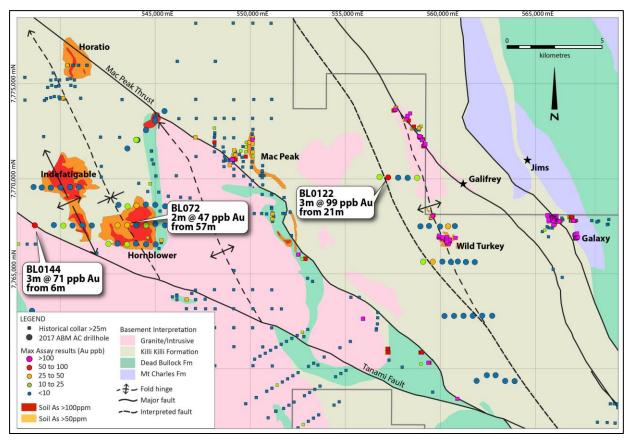


Figure 1. Indefatigable, Hornblower, and Wild Turkey Targets showing anomalism in drill holes

## Background

Indefatigable, Hornblower and Wild Turkey are three projects within the Bluebush Project, north of Trans-Tanami Fault Zone, and located 50km northwest of the world class Callie Gold Mine (Figure 2). The Dead Bullock Formation (host rock of Callie), folding and faulting complexity, and geochemical anomalism highlight the prospectivity of the area. Numerous structures have been interpreted with associated soil and shallow drilling anomalism. Large soil arsenic anomalies at Indefatigable and Hornblower have not previously been bedrock tested. Previous drilling is commonly vacuum drilling which is often as shallow as 3 metres deep. These historic holes failed to penetrate transported cover or the leached weathering profile. Assuming a similar leaching depth to the Capstan Target, the majority of historical drilling is interpreted to be ineffective.

## **Targets**

The Indefatigable Target is a 3.5km long soil arsenic anomaly. The arsenic anomaly, with values of 50-380ppm, trends northwest along an antiformal fold hinge. The target was further prioritised due to the presence of a coincident low level gold anomaly. The area is interpreted to be Killi Killi Formation however no geochemical work is known to have confirmed this.

Hornblower is a coincident arsenic and gold soil anomaly. The underlying rock is interpreted to be the faulted Dead Bullock Formation. A number of shallow holes have been drilled to an average depth of 7.8m confirm the soil arsenic anomalism. The 7 RAB holes drilled in the area are the only historic holes 30m or deeper. Anomalous gold over 20ppb is only intersected at depths greater than 15m, suggesting the presence of a leached zone and potentially rendering the majority of the shallow historic drilling ineffective.

The Wild Turkey Target represents the intersection of the Central Tanami Pits structural trend with folded magnetic Dead Bullock Formation concealed under cover. It has a large gold in soil anomaly of >10ppb, where there is no cover, and extends over a strike length of 1.6 km along the fold axis.

The majority of historic sampling has been concentrated over subcropping east-west quartz veins. The area has been subject to historical prospecting with several trenches, and a small shaft sunk into the hinge of the anticline. Historic reporting describes "sporadic high values ranging from 2 to 30g/t Au were received over a zone approximately 500m in strike length and 150m width." (Koerber et al 1993).

### **Drilling Results**

A drilling program of 64 holes for 2,986m was completed in late October (Figure 1). This reconnaissance program was aiming to confirm the presence of rocks in the area are the same as those hosting Callie, to complete an initial bedrock test under large arsenic anomalies, and to commence screening undercover for large scale geochemical anomalies as indicators of concealed deposits.

The drilling was optimised to test interpreted structural trends and targeted stratigraphy. The drill spacing for each project was; Indefatigable - 2km x 0.5km, Hornblower 1km x 0.5km, Wild Turkey 3km x 0.5km.

Anomalous gold has been identified in three holes. The zones of anomalism intersected (Figure 1) include:

- 3m @ 71ppb Au from 6m (BL0144) Indefatigable
- 3m @ 99ppb Au from 21m (BL0122) Wild Turkey
- 2m @ 47ppb Au from 57m (BL0072) Hornblower

Drilling at Hornblower intersected Dead Bullock Formation, including within hole BL0072.

Geochemical assaying is continuing.

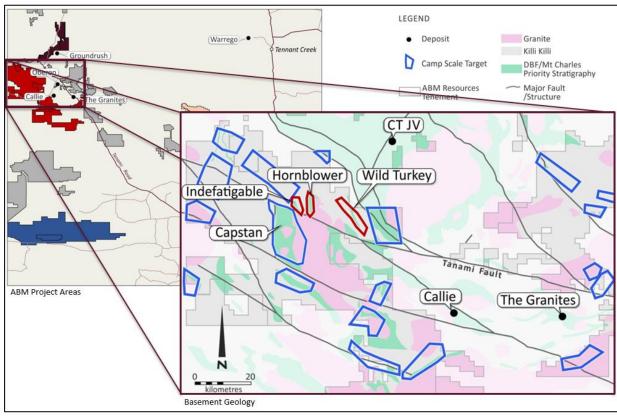


Figure 2. Indefatigable, Hornblower and Wild Turkey Target location map

### **Future Work**

Geochemical data will be assessed with the gold results to finalise future drill plans and confirm the source of the large soil arsenic anomalies. Approximately 40 aircore holes are proposed to further define the gold anomaly and these will be included as part of a larger campaign with Capstan. Drilling is planned to commence at the break of the wet season in 2018.

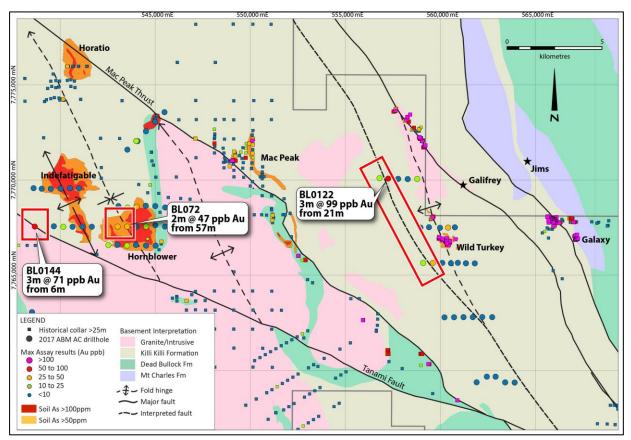


Figure 3. 2018 Infill aircore drilling target areas (red outlines)

## **Referenced Reports**

Koerber, D., Capp, S., Harley, B., 1993, Annual Report For Exploration Licenses 1271, 1276, and 1277. December 1992. Unpublished Company Report CR1993-0329A (http://www.geoscience.nt.gov.au/gemis/ntgsjspui/handle/1/78682)

Matt Briggs Managing Director

# **About ABM Resources**

ABM is an established gold exploration company with a successful track record of discovery in one of Australia's premier gold mining districts. The Company owns gold resources and extensive prospective land holdings in the Central Desert region of the Northern Territory. The Company leadership has implemented a strategy of

aggressive cost management initiatives and is developing a disciplined, tightly focused exploration strategy. Activities are currently focused on the Company's under-explored 21,000km<sup>2</sup> Tanami Project area<sup>1</sup> and includes:

- Systematic evaluation of high potential early stage targets
- Drilling of advanced prospects on the Suplejack Project
- · Assessment of existing resources and
- Exploring opportunities for joint ventures and divestment of early stage targets

### **Competent Person's Statement**

The information in this announcement relating to exploration targets and exploration results are based on information reviewed and checked by Mr Matt Briggs who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Briggs is a full time employee of ABM Resources NL and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Briggs consents to the inclusion in the documents of the matters based on this information in the form and context in which it appears.

## Appendix 1 Significant intercepts at the Indefatigable, Hornblower and Wild Turkey Targets

Hole ID	Total Depth (m)	East <sup>1</sup>	North <sup>1</sup>	RL (m)	Dip	Azimuth <sup>1</sup>	From Depth (m)	Interval (m)	Result² (ppb Gold)
BL0144	57	538670	7767551	406	-90	0	6	3	71
BL0122	54	557253	7770070	416	-90	0	21	3	99
BL0072	60	543529	7767553	417	-90	0	57	2	47

<sup>&</sup>lt;sup>1</sup> GDA 94 Zone 52

<sup>&</sup>lt;sup>2</sup> Collar information for mineralised AC drill holes >50 ppb Au or geological significance

<sup>&</sup>lt;sup>1</sup> Area managed by ABM excluding the Lake Mackay JV and North Arunta Projects

# Appendix 2 JORC TABLES FOR BLUEBUSH DRILLING

# **SECTION 1: SAMPLING TECHNIQUES AND DATA**

Criteria	JORC Code explanation	Commentary		
Sampling techniques	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 down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	The sampling has been carried out by Aircore (AC) drilling. 64 AC holes for 2,986 metres were drilled in this reported programme. AC samples are logged geologically and 3m composite samples submitted for assay.		
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used	The full length of each hole was sampled. Sampling was carried out under ABM's protocols and QAQC procedures as per industry best practice. Bag sequence is checked regularly by field staff and supervising geologist against a dedicated sample register. See further details below.		
	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. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information	AC drilling was sampled as 3 m composites by spear sampling the total reject to produce a 2-3 kg composite sample. At the end of hole (EOH) a 1 m 2-3 kg spear sample was collected.  ABM samples were submitted to a contract laboratory for crushing and pulverising to produce a 40 g charge for Fire Assay with AAS finish.		
Drilling techniques	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).	AC drilling was undertaken with a Mantis 80 mounted on a 6 x 6 Toyota Landcruiser AC drill rig. This rig has a depth capacity of approximately 120m with an on-board Sullair compressor producing 185 cfm @ 200 psi. A 3 ½" aircore bit was used.		
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed	Recoveries from drilling were generally 90%-100%, though occasional near surface samples have recoveries of 50%. Samples were typically dry with minor wet samples.		
	Measures taken to maximise sample recovery and ensure representative nature of the samples	Drillers used appropriate measures to minimise down-hole and/or cross hole contamination in AC drilling.  The cyclone and buckets were cleaned every 30 m or after wet samples to minimise potential for contamination.		
	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.	Aircore drilling is designed as a reconnaissance tool to define anomalism in the regolith. Sample recovery does not impact identification of anomalism and consequently no detailed analysis has been undertaken to determine a relationship between grade and recovery for this programme. With sample recovery >90% bias is unlikely due to preferential loss/gain of fine/coarse material.		
Logging	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.	ABM AC samples were geologically logged at the drill rig by a geologist. Data on lithology, weathering, alteration, ore mineral content and style of mineralisation, quartz content and style of quartz were collected.		
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Logging is qualitative in nature and records interpreted lithology, mineralogy, mineralisation, weathering, colour and other features of the samples. EOH samples are wet-sieved and stored in a chip tray.		
	The total length and percentage of the relevant intersections logged	All holes were logged in full by ABM geologists.		
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	No core was collected		

Criteria	JORC Code explanation	Commentary
	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	One metre samples were collected from a cyclone into a plastic bucket and then laid out on the ground in rows of 10 or 20.  AC drilling was sampled as 3 m composites by spear sampling the total reject to produce a 2-3 kg composite sample. At the end of hole (EOH) a 1 m 2-3 kg spear sample was collected.  Recoveries from drilling were generally 90%-100%, though occasional near surface samples have recoveries of 50%. Samples were typically dry with minor wet samples. Wet and dry samples were not mixed in the composites.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	All samples have been analysed for gold by Bureau Veritas in Adelaide. Samples were dried and the whole sample pulverised to 85% passing 75 µm, and a sub sample of approximately 200g is retained for Fire Assay which is considered appropriate for the material and mineralisation and is industry standard for this type of sample.
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	Field duplicates for AC were taken every 20 samples. At the laboratory, regular repeat and Lab Check samples are assayed.
	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.	Three metre composites are taken from the 1 metre sample piles using a spear which penetrates across the full sample. The pile is sampled in multiple slices from different angles ensuring a representative sample is taken. Samples are collected to weigh less than 3 kg to ensure total preparation in the pulverisation stage.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample sizes are considered appropriate to give an indication of mineralisation given the particle size and preference to keep the sample weight below 3 kg to ensure the requisite grind size in a LM5 sample mill.
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	ABM use a lead collection fire assay using a 40g sample charge. For low detection, this is read by ICP-AES, which is an inductively coupled plasma atomic emission spectroscopy technique, with a lower detection limit of 0.001 ppm Au and an upper limit of 1,000 ppm Au which is considered appropriate for the material and mineralisation and is industry standard for this type of sample.
	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.	Olympus DELTA handheld XRF was used on all the 64 drill holes. Calibration of the hand-held XRF tools is applied at start up. XRF results are only used for indicative analysis of litho-geochemistry and alteration and to aid logging and subsequent interpretation. 4 acid digest data is also used to assist in litho-geochemical determination.
	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.	A blank or standard was inserted approximately every 25-30 samples. For drill samples, blank material was supplied by the assaying laboratory. Two certified standards, acquired from GeoStats Pty. Ltd., with different gold grade and lithology were also used. QAQC results are reviewed on a batch by batch basis and at the completion of the programme.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Significant intersections were calculated independently by both the Project Geologist and database administrator.
	The use of twinned holes.	No dedicated twin holes have been drilled as this is not considered appropriate for early stage reconnaissance drilling.

Criteria	JORC Code explanation	Commentary
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Primary data was collected into an Excel spreadsheet and the drilling data was imported in the Maxwell Data Schema (MDS) version 4.5.1. The interface to the MDS used is DataShed version 4.5 and SQL 2008 R2 (the MDS is compatible with SQL 2008-2012 — most recent industry versions used). This interface integrates with LogChief and QAQCReporter 2.2, as the primary choice of data capture and assay quality control software. DataShed is a system that captures data and metadata from various sources, storing the information to preserve the value of the data and increasing the value through integration with GIS systems. Security is set through both SQL and the DataShed configuration software. ABM has one sole Database Administrator and an external contractor with expertise in programming and SQL database administration. Access to the database by the geoscience staff is controlled through security groups where they can export and import data with the interface providing full audit trails. Assay data is provided in MaxGEO format from the laboratories and imported by the Database Administrator. The database assay management system records all metadata within the MDS and this interface provides full audit trails to meet industry best practice
	Discuss any adjustment to assay data.	No transformations or alterations are made to assay data stored in the database. The lab's primary Au field is the one used for plotting and Resource purposes. No averaging is employed. Assay data below the detection limit were adjusted to equal half of the detection limit value.
Location of data points	Accuracy and quality of surveys used to locate drillholes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	The AC hole collars were surveyed with a handheld GPS pre- and post- drilling. Handheld GPS reading accuracy is improved by the device 'waypoint averaging' mode, which takes continuous readings of up to 5 minutes and improves accuracy.  No DH Surveys were collected due to the early stage nature of the drilling style and the shallow drill depths.
	Specification of the grid system used.	The grid system used is MGA_GDA94, Zone 52.
	Quality and adequacy of topographic control.	For holes surveyed by handheld GPS the elevation has been updated based off the 30m SRTM data and recorded in the database.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	The drilling was optimised to test interpreted structural trends and targeted stratigraphy. The drill spacing for each project was; Indefatigable - 2km x 0.5km, Hornblower 1km x 0.5km, Wild Turkey 3km x 0.5km
	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.	The drilling subject to this announcement has not been used to prepare Mineral Resource Estimates.
	Whether sample compositing has been applied.	AC drill samples from this programme were composited from 1 metre piles to 3 metre composites samples.
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	The orientation of the drill lines was designed to intersect the stratigraphy as orthogonally as possible. The drill holes were all drilled vertically as the dip of stratigraphy is unknown. As this is early stage drilling the orientation of the drilling to mineralisation is not known.
	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.	No orientation based sampling bias has been identified in this data.
Sample security	The measures taken to ensure sample security.	Samples were transported from the rig to the field camp by ABM personnel, where they were loaded onto a Toll Express truck and taken to Bureau Veritas Laboratories secure preparation facility in Adelaide. ABM personnel have no contact with the samples once they have been picked up for transport. Tracking sheets have been set up to track the progress of the samples. The preparation facilities use the laboratory's standard chain of custody procedure. Details regarding sample security of drilling prior to 2010 are not readily available.

Criteria	JORC Code explanation	Commentary
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	ABM conducted a Lab Visit to Bureau Veritas laboratory facilities in Adelaide in August 2017 and found no faults. QA/QC review of laboratory results shows that ABM Resources sampling protocols and procedures were generally effective.

# **SECTION 2: REPORTING OF EXPLORATION RESULTS**

Criteria	JORC Code explanation	Commentary		
Mineral tenement and land tenure status	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.	The Indefatigable and Hornblower prospects are located on EL 31291 and the Wild Turkey prospect is located on EL 27119 in the Northern Territory. The tenement is wholly owned by ABM, and subject to the 'Tanami A' agreement between ABM and the Traditional Owners via Central Land Council (CLC).		
	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.	The tenement is in good standing with the NT DPIR		
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The target areas were first recognised in this district by surface geochemistry and shallow lines of VAC drilling in the late 1990s by Otter Gold NL. North Flinders, Normandy NFM and Newmont Asia Pacific subsequently all conducted exploratory work on the Bluebush project area with the last recorded drilling (prior to ABM) completed in 2006. Previous exploration work provided the foundation on which ABM based its exploration strategy. A reference to historic reports on historic surface sampling is provided for the target area and has been considered to prioritise targeting but is not considered suitable for inclusion for Resource reporting.		
Geology	Deposit type, geological setting and style of mineralisation.	Geology at Bluebush consists of sedimentary packages interpreted to the prospective Dead Bullock Formation and the Killi Killi sediments. The stratigraphic package consists of interbedded steeply dipping sedimentary rocks (siltstones and shales) and turbiditic sandstones of the Killi Killi. Mineralisation is interpreted to be controlled NS and WNW striking faults and the hinge zones of anticlinal and synclinal folds.		
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:  • 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.	Summaries of all material drill holes are available within the Company's ASX releases.		
	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	The detail of reporting is appropriate for reconnaissance exploration.		
Data aggregation methods  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.		ABM does not use weighted averaging techniques or grade truncations for reporting of exploration results.  All reported assays have been length weighted with a nominal 25 ppb gold lower cut-off and 3 m of internal waste. No upper cut-offs have been applied.		

Criteria	JORC Code explanation	Commentary		
	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.	Summaries of all material drill holes and approach to intersection generation are available within the Company's ASX releases.		
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalent values are used.		
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results.  If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.  If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	From surface mapping and previous drilling in the district, host lithologies and mineralisation are most commonly steeply dipping. Where sufficient outcrop exists to inform planning, drill holes are angled so as to drill as close to perpendicular to mineralisation as possible.		
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.	Refer to Figures and Tables in the body of the text.		
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.	All exploration results have been reported.		
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 characteristics; potential deleterious or contaminating substances.	Multi-element geochemistry and spectral logging studies have been completed on the deposit. These are used to influence the interpretation of the regolith profile and host rock lithology.		
The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).  Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive		Further work would include additional framework RAB/AC drilling to improve geological understanding and to confirm continuity of anomalism/mineralisation. Ground geophysics/magnetics could be completed to map out subsurface structures.		