# SILVER CITY MINERALS LIMITED



### ASX ANNOUNCEMENT

9 November 2018

### **Copper Blow Drill Results**

Silver City Minerals Limited (ASX: SCI) ("Silver City" or "the Company") the base and precious metals exploration Company targeting the NSW mining districts of Broken Hill and Cobar, provides shareholders with an update from the first hole of the recently completed drill program at the Copper Blow Project, located 20 kilometres south of Broken Hill.

The first hole 18CB071 has returned the following intersections, located in a shear-fracture zone subparallel to the main Copper Blow Shear (Figure 2). While the Copper Blow Shear was intersected for over 70 metres downhole (ASX Release 4 October 2018) it did not host appreciable copper-gold mineralisation:

- > 2 metres at 1.50% copper and 0.03 g/t gold from 216 metres
- > 2 metres at 1.04% copper and 0.13 g/t gold from 228 metres

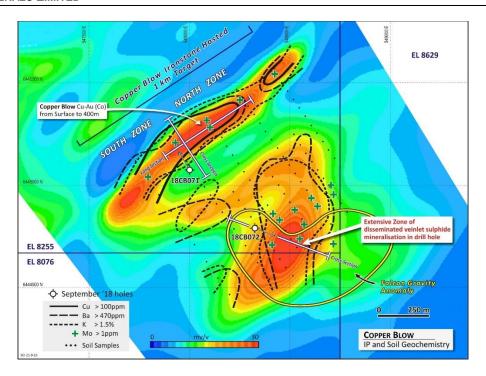
#### Second Hole 18CB072

Analytical results for the second hole of the program (18CB072) are currently pending.

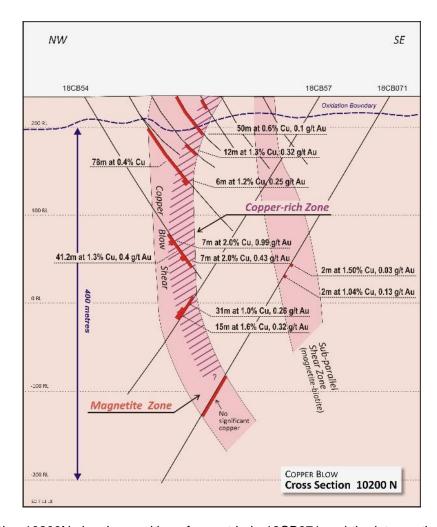
Finely disseminated and stringer sulphides including pyrite, pyrrhotite, chalcopyrite and molybdenite were recognised in hole 18CB072 in two broad intervals cumulatively over 230 metres. Overall these contain approximately 0.5 to 1% total sulphide (Figure 3). The disseminated and stringer veinlet sulphide mineralisation is reminiscent of that which occurs in association with iron oxide copper-gold systems (IOCG) and/or porphyry copper deposits.

Whilst the Company does not anticipate a high copper grade, the presence of strong potassic alteration and the occurrence of late sulphide-bearing veins including molybdenite suggest a magmatic (igneous intrusion) source to mineralising fluids.

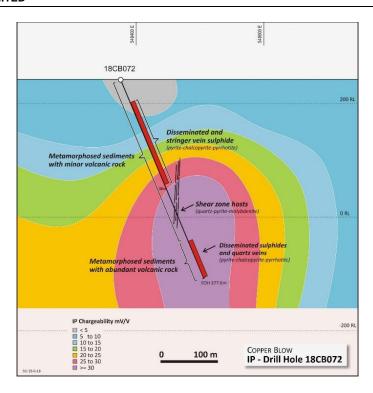
t +61 2 9437 1737 | f +61 2 9906 5233 | www.silvercityminerals.com.au | ABN 68 130 933 309 Level 1, 80 Chandos Street St Leonards NSW 2065 Australia | PO Box 956, Crows Nest, NSW 1585 Australia



**Figure 1** Plan view of the dipole-dipole model depicting a horizontal slice of IP chargeability at 180 metres below surface. The Copper Blow magnetic ironstone shows elevated chargeabilities, as does the new anomaly to the southeast. Both display anomalous geochemistry in soils (ASX Release 30 Oct 2018). Recent holes 18CB071 and 72 are shown.



**Figure 2** Cross-section 10200N showing position of recent hole 18CB071 and the intersection of the Copper Blow shear zone.



**Figure 3** Cross-section Hole 18CB072 (refer to Figure 1) showing broad zones of geology and disseminated and veinlet sulphide mineralisation. Background image is a slice through the IP chargeability model along the trace of the hole.

#### What Next?

The Company has discovered a large mineral system which demonstrates the geological characteristics of an iron oxide copper gold deposit (IOCG) at the Copper Blow Project. To date, two styles of mineralisation related to this system have been identified.

One is a magnetic ironstone-hosted copper-gold style located in a major crustal structure; the Copper Blow shear zone.

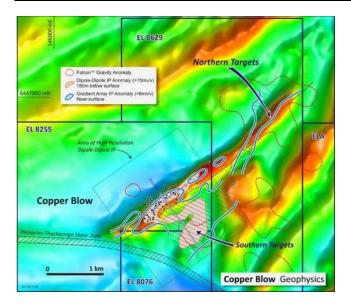
The other is a broad, disseminated and stringer zone of copper and iron sulphides hosted in rocks apparently unrelated to a major shear zone (hole 18CB072; southern IP anomaly) but partly related to the presence of iron-rich volcanic or intrusive rocks.

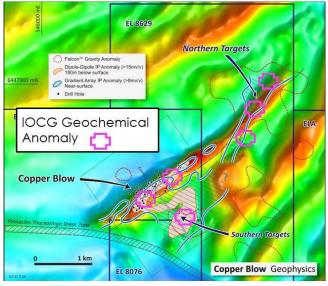
It is clear that copper-gold mineralisation located in ironstone at Copper Blow is part of a much larger mineral system which covers much of the eastern part of the tenure. A combination of coincident IP, geochemical, magnetic and gravity anomalies occur and have not been drill tested. Most of these lie beneath a veneer of alluvial and soil cover, estimated to be 10 to 15 metres deep.

The Company plans to undertake a more extensive geochemical sampling program using rotary air blast (RAB) drilling to sample bedrock under alluvial cover. This will be carried out in conjunction with further ground geophysical surveys including gravity and IP to generate new drill targets.

Table 1 Drill Hole Specifications

HoleID	Easting GDA94 MGA Zone 54	Northing GDA94 MGA Zone 54	Elevation (m)	Azimuth (° Grid)	Dip (°)	Total Depth (m)
18CB071	548045	6444990	233	322	-60	502.1
18CB072	548380	6444804	225	113	-60	377.6





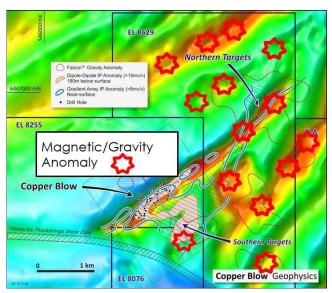


Figure 4 (Upper Image) Simplified geophysical map showing background image of reduced-to-pole magnetics, gradient array IP, the extent of the dipole-dipole IP survey, a horizontal slice of the IP model at 180 metres below surface (15mv/v contour) and Falcon TM gravity anomlies. Diagram shows that the location of interpreted sulphide-bearing rock defined by the 8mv/v contour is significantly larger than the linear magnetic anomaly which host known coppergold mineralisation at Copper Blow.

(Middle Image) A simple residual soil sampling program of limited extent (ASX Release 30 Oct 2018) has outline anomalous geochemistry characteristic of IOCGs.

(Lower Image) This highlights numerous magnetic and/or gravity targets which remain to be tested.

#### SILVER CITY MINERALS LIMITED

**Christopher Torrey Managing Director** 

#### **ABOUT Silver City Minerals Limited**

Silver City Minerals Limited (SCI) is a base and precious metal explorer with a strong focus on the Broken Hill District of western New South Wales, Australia. It takes its name from the famous Silver City of Broken Hill, home of the world's largest accumulation of silver, lead and zinc; the Broken Hill Deposit. SCI was established in May 2008 and has been exploring the District where it controls Exploration Licences through 100% ownership and various joint venture agreements. It has a portfolio of highly prospective projects with drill-ready targets focused on high grade silver, gold and base-metals, and a pipeline of prospects moving toward the drill assessment stage. The Company continues to seek out quality projects for exploration and development.

#### Caution Regarding Forward Looking Information.

This document contains forward looking statements concerning Silver City Minerals Limited. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes. Forward looking statements in this document are based on Silver City's beliefs, opinions and estimates of Silver City Minerals as of the dates the forward looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future development.

#### Competent Persons

The information in this report that relates to Exploration Results is based on information compiled by Chris Torrey (BSc, MSc, RPGeo Mineral Exploration), who is a member of the Australian Institute of Geoscientists. Mr Torrey is the Managing Director, a shareholder and full time employee of Silver City Minerals Limited. Mr Torrey has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as "Competent Persons" as defined by the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Torrey, consents to the inclusion in this Report of the matters based on this information in the form and context in which it appears.

This report contains information extracted from ASX releases cited in the body of the report. These are available to view on the website www.silvercityminerals.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

+61 2 9437 1737

#### **CONTACT DETAILS**

Josh Puckridge Non-Executive Director

**Management and Directors Registered Office** 

**Bob Besley** Chairman Level 1, 80 Chandos Street,

**Chris Torrey** St Leonards, NSW 2065, Australia Managing Director

**Greg Jones** Non-Executive Director PO Box 956, Crows Nest, NSW 1585, Australia Ph:

Ivo Polovineo Company Secretary Email: info@silvercityminerals.com.au

www.silvercityminerals.com.au Web:

## **JORC Code, 2012 Edition – Table 1**

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (eg 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.	Two diamond drill holes have been completed. This outline results from the first hole 18CB071
	<ul> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	Core sampling is a representative method
	Aspects of the determination of mineralisation that are Material to the Public Report.	Descriptions of geology and assays are Material to this and future Public Reports
	In cases where 'industry standard' work has been done this would be relatively simple (eg '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 (eg submarine nodules) may warrant disclosure of detailed information.	Copper Blow is a base metal-gold-cobalt project. To date elevated grades have been observed to occur in association with elevated sulphide content. Sampling is based on the visual estimation of sulphide content and/or intensity of alteration. The Company not only samples elevated sulphide zones but also up to 10 metres of adjacent wall rocks. Core holes are sampled nominally in two or one metre samples, with one metre samples usually in visually higher sulphide zones or within the target shear zone
Drilling techniques	Drill type (eg core, reverse circulation, openhole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is oriented and if so, by what method, etc).	HQ and NQ diamond core. Standard NQ-2 predominates. Core has been drilled from surface. Core orientation has been recorded using the Reflex Ace Tool 3. Downhole surveys have been taken nominally every 30 metres using a gyro-orientation system due to the abundance of magnetite in the target zone.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Core recoveries are recorded by the drillers in the field at the time of drilling and checked by a geologist or technician
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	<ul> <li>Diamond core is reconstructed into continuous runs on an angle iron cradle for orientation marking and depths are checked against the depths recorded on core blocks. Rod counts are routinely undertaken by drillers.</li> <li>When poor sample recovery is encountered during drilling, the geologist and driller have endeavoured to rectify the problem to ensure maximum sample recovery.</li> </ul>
	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.	Relationship is not known at this time.     Core recoveries have been very high (98 to 100%)
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	All core has been geologically and geotechnically logged in detail that will support Mineral Resource estimation, mining at metallurgical studies

Criteria	JORC Code explanation	Commentary
	metallurgical studies.     Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Qualitative geological logging, quantitative geotechnical logging, core photography (wet and dry) and core orientation have taken place. Specific gravity measurements using the water displacement method will be taken nominally every 5 metres
	The total length and percentage of the relevant intersections logged.	879.7 metres have been logged (100% of the two holes)
Sub- sampling	If core, whether cut or sawn and whether quarter, half or all core taken.	Core has been cut with a diamond core saw and half core submitted for analyses.
techniques and sample preparation	<ul> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	<ul> <li>Sample size is appropriate to grain size and the nature of the rock</li> <li>Sample types and the nature of the preparation is appropriate to the project</li> </ul>
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	Quality control includes detailed core recovery assessment and continuous half core sampling to maximise representivity.
	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.	Core drilling is an appropriate method of ensuring representative sampling of mineralised zones and adjacent country rocks . No second half core sampling has been undertaken
	<ul> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	• core
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.	Sample preparation pulverization 85% sample passing 75 microns. 4 acid digest, 48 elements using ICP/AES and ICP-MS (ASLGlobal Code ME-MS61: alsglobal.com). Gold by 30 gram charge fire assay and AA finish (ALS Code Au-AA23). Technique is appropriate to the study and considered to be total for most elements.
	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.  Notice of multiple control procedures adapted.	No handheld instruments used  Industry partition standards were inserted.
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	<ul> <li>Industry certified standards were inserted nominally every 40<sup>th</sup> sample. Analytical correlations are acceptable.</li> </ul>
Verification of sampling and	The verification of significant intersections by either independent or alternative company personnel.	No independent verification
assaying	The use of twinned holes.	No twinned holes
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.    Compared to the compared to	Data is recorded on site a using computer storage program and backed up at main office.
Location of	Discuss any adjustment to assay data.	No assay adjustment
Location of data points	<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> </ul>	Collars will be surveyed by registered surveyor and continuous downhole gyro survey using Champion Gyro

Criteria	JORC Code explanation	Commentary
	Specification of the grid system used.	MGA94 Zone 54
	Quality and adequacy of topographic control.	Drone survey to millimetre accuracy for hole 18CB071 and Shuttle Radar for hole 18CB072
Data spacing and distribution	Data spacing for reporting of Exploration Results. 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.	Data spacing is sufficient to establish a degree of geological continuity appropriate for Mineral Resource and Ore Reserve estimation
	Whether sample compositing has been applied.	No sample compositing
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.	With respect to hole 18CB071 drilling has be of sufficient density to determine that mineralised structures and veins have a northeasterly strike and are nearly vertical with steep dips both towards the northwest and southeast. Drill holes have been oriented perpendicular to strike at dip angles from horizontal of between 50 and 70 degrees. As such downhole intersections do not represent true thicknesses of mineralised zones.  Depending on the angle of the hole at the intersection the true thickness maybe between 50 and 80% of the downhole intersection.
	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.	For 18CB071 given the interpretation of the structure described above, there is of a high level of confidence in the orientation of the key mineralised structures. The Company does not consider that the sampling gives a biased result. This public report gives downhole thicknesses.
Sample security	The measures taken to ensure sample security.	Core is transported from site to a locked core yard where it is processed and sampled. Samples are then delivered to a freight forwarding company for transport to the laboratory.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audits have been undertaken

## **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	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.	Work outlined in this public report falls within EL 8255 which is subject to a joint venture between Silver City Minerals and CBH Resources. A landowner access agreements are in place. Native Title has been extinguished.
	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 tenure is secure under NSW legislation. There are no known impediments to operate.
Exploration done by	Acknowledgment and appraisal of exploration by other parties.	Details previously outlined in ASX Release 4 May 2017.

Criteria	JORC Code explanation	Commentary
other	Total oxplanation	- Sommontary
parties		
Geology	Deposit type, geological setting and style of mineralisation.	Iron oxide copper-gold deposit hosting cobalt. Both shear zone hosted and disseminated
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:	In body of report
	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.	This report outlines significant elevated results. It indicates zones of insignificant grades but does not report them. Both are material to this public report.
Data aggregation methods	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.	Standard weight averaging techniques are applied. There was no cutting of high grade and the lower cut was 1% copper.
	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.	No short or long lengths
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No equivalents are reported
Relationshi p between mineralisati on 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> </ul>	With respect to hole 18CB071 drilling has be of sufficient density to determine that mineralised structures and veins have a northeasterly strike and are nearly vertical with steep dips both towards the northwest and southeast. The geometry of mineralisation is known. Drill holes have been oriented perpendicular to strike at dip angles from horizontal of between 50 and 70 degrees. As such downhole intersections do not represent true thicknesses of mineralised zones. Depending on the angle of the hole at the intersection the true thickness maybe between 50 and 80% of the downhole intersection.
	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').	Both downhole thickness is reported
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	Body of report

Criteria	JORC Code explanation	Commentary
	locations and appropriate sectional views.	
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.	Reporting of all results is inappropriate. Only grades 1% copper and above are 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.	No other exploration
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling</li> </ul>	<ul> <li>Continued drilling, continued IP and magnetic geophysical surveys and surface geochemical sampling.</li> <li>Refer to figures in body of report</li> </ul>
	areas, provided this information is not commercially sensitive.	