

31 March 2022

## EXPANSION DRILL PROGRAMME – MT ALEXANDER HIGH-GRADE NICKEL-COPPER PROJECT

*Massive nickel-copper sulphides intersected in extensional drilling at Stricklands Deposit*

### HIGHLIGHTS

#### Expansion drill programme commences with success in first drill hole at Stricklands:

- MAD209 has intersected more than 5m of nickel-copper sulphides from 112.9m downhole
- This high-grade intersection is located approximately 35m north-west of the existing high-grade envelope for the Stricklands Deposit and confirms the continuity of mineralisation in the down-dip direction
- MAD209 tested a strong off-hole electromagnetic (EM) conductor (9,825 Siemens), with a number of similar EM conductors scheduled for drilling along the Cathedrals Belt including at Stricklands

#### Major extension and infill drill programme across the Cathedrals Belt:

- All four shallow, high-grade discoveries in the Cathedrals Belt – Stricklands, Cathedrals, Investigators and Radar – remain open with potential for additional high-grade nickel-copper-PGE mineralisation to be delineated by further drilling
- Major drill programme – using both diamond and reverse-circulation (RC) drilling – to continue into June and September quarters

Growth-focused Western Australian nickel company St George Mining Limited (ASX: **SGQ**) (“St George” or “the Company”) is pleased to announce excellent results from the first drill hole completed in the new extension and infill drill programme underway at its flagship high-grade nickel-copper-PGE Mt Alexander Project, located in the northern Goldfields.

MAD209 was completed by diamond drilling to test an EM conductor (9,825 Siemens) at Stricklands. The drill hole intersected **5.2m of nickel-copper sulphide mineralisation** from 112.9m downhole and has confirmed the continuity of mineralisation approximately 35m to the north-west of the existing mineralised envelope for the Stricklands Deposit.

The success of MAD209 bodes well for the potential of the current extension and infill drill programme to deliver a significant expansion of the known near-surface, high-grade nickel-copper-PGE mineralisation along the Cathedrals Belt.

**John Prineas, St George Mining’s Executive Chairman,** said:

“Our exploration strategy at Mt Alexander has a dual-track approach. Firstly, we aim to increase the known areas of shallow, high-grade nickel-copper sulphides. Secondly, we will test several large, high-priority conceptual targets areas that have potential for a new discovery.

“The shallow deposits along the Cathedrals Belt are open and further drilling offers an excellent opportunity to add more tonnes to a potential mining inventory at a low cost. All metallurgical testwork completed on these ore bodies has confirmed the ability to produce separate nickel and copper concentrates at high-grades and quality that will be attractive to end-users.

“This underscores St George’s strategy to expand the mineralised envelope for these deposits as we continue to assess potential development scenarios.

“We are also excited by the second limb of our exploration strategy – to test the new targets that could deliver a large-scale discovery at the Project as we announced in our ASX release on 29 March 2022.

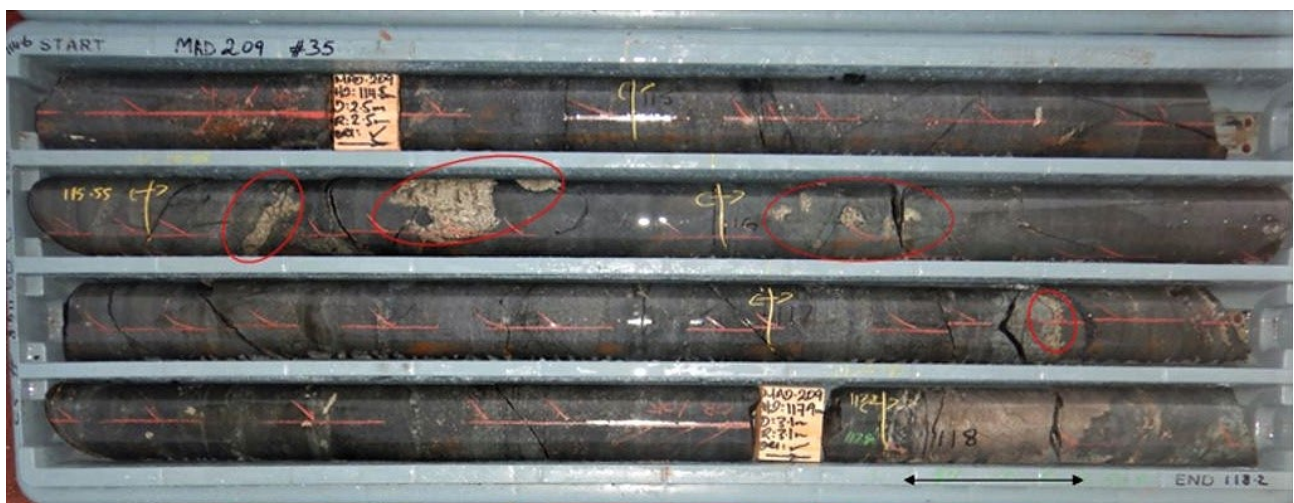
“The shallow, high-grade discoveries already made in the Cathedrals Belt are proof of a fertile, high-grade mineral system. The extensive strike of the discoveries – over more than 5km along the Cathedrals Belt – supports the case for further significant mineralisation to be present at depth or along strike.

“We are determined to create substantial shareholder value through these compelling opportunities at the high-grade Mt Alexander Project.”

### FIRST HOLE IN STRICKLANDS EXTENSION PROGRAMME DELIVERS

MAD209 was completed to a downhole depth of 173m. The drill hole intersected nickel-copper sulphides where predicted by the EM modelling. The following is a geological summary of the drill core:

Interval	Style of Mineralisation
0m to 112.9m	<i>Granitic rocks punctuated by intervals of mafic extrusive rocks with trace chalcopyrite (cp) and pyrrhotite (po) observed in the mafics</i>
<b>112.9m to 117.9m</b>	<b><i>Disseminated and blebby sulphides within ultramafic rocks; 15% to 20% sulphides comprising pentlandite (pn), cp and po.</i></b>
<b>117.9m to 118.1m</b>	<b><i>Massive nickel-copper sulphides; 100% sulphides comprising pn, cp and po.</i></b>
118.1m to 145m	<i>Mafic extrusive rocks with trace sulphides; cp and po Bleached zones suggesting overprinted greenstone</i>
145m to 173m	<i>Granitic rocks</i>



**Figure 1** – drill core from MAD209 showing massive, blebby (highlighted by red circles) and disseminated sulphides.

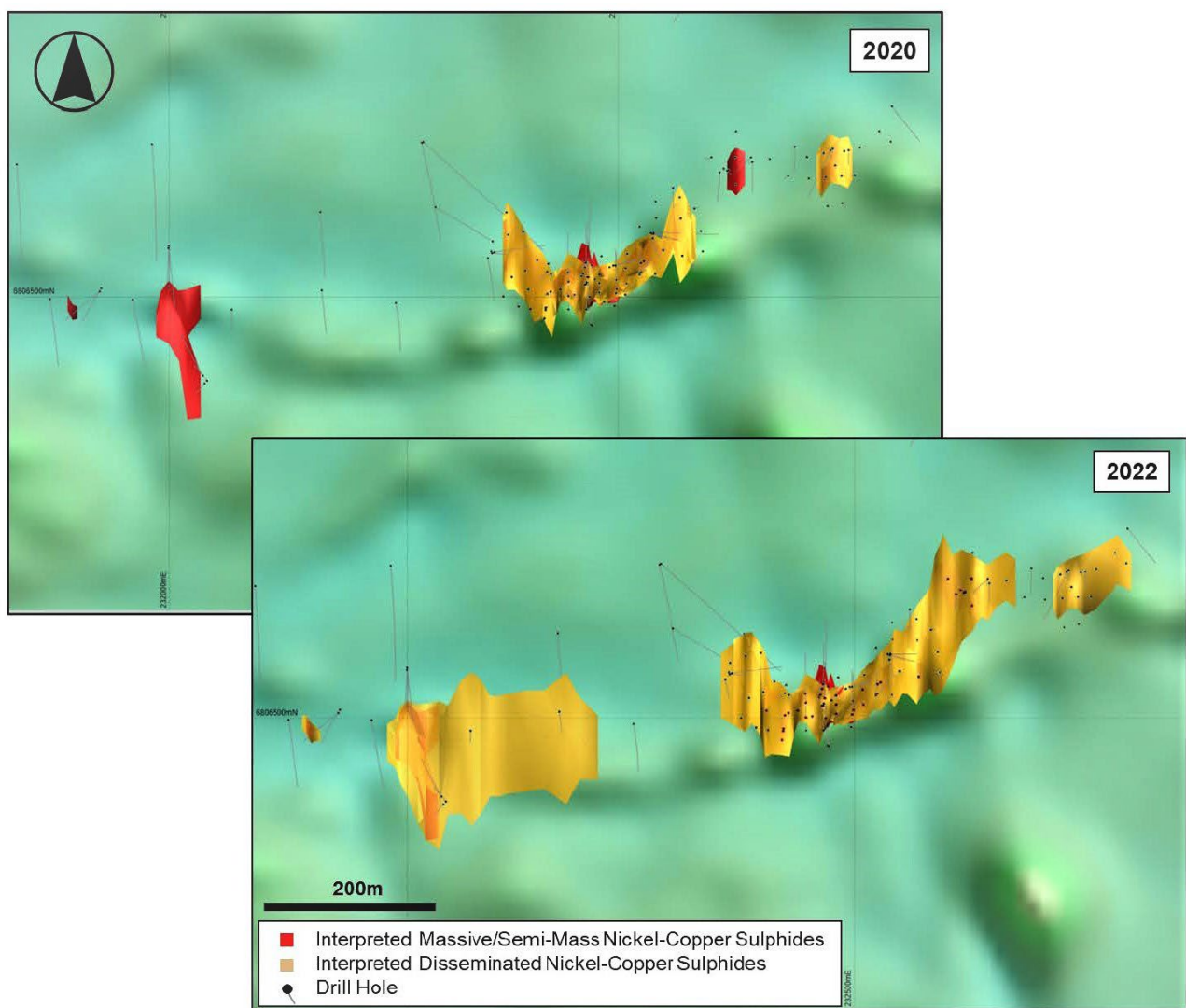
Analysis of the drill core by portable XRF has confirmed the presence of nickel and copper sulphides in the mineralised interval logged in MAD209. Laboratory assays are pending and required to confirm the nickel and copper grades as well as the values of cobalt and PGEs in the interval.

Initial assessment of the core confirms the sulphide mineralisation in MAD209 appears similar to other high-grade mineralisation intersected at Stricklands and we expect assays to return comparable values.

Based on the intersection angle of the drilling with the modelled intrusive unit, downhole widths noted are interpreted to be close to true widths.

**STRICKLANDS CONTINUES TO GROW**

Ongoing drilling at Stricklands has consistently been able to expand the footprint of the high-grade deposit below the sub-cropping mineralisation. Figure 2 highlights the growth of the deposit from 2020 to 2022.

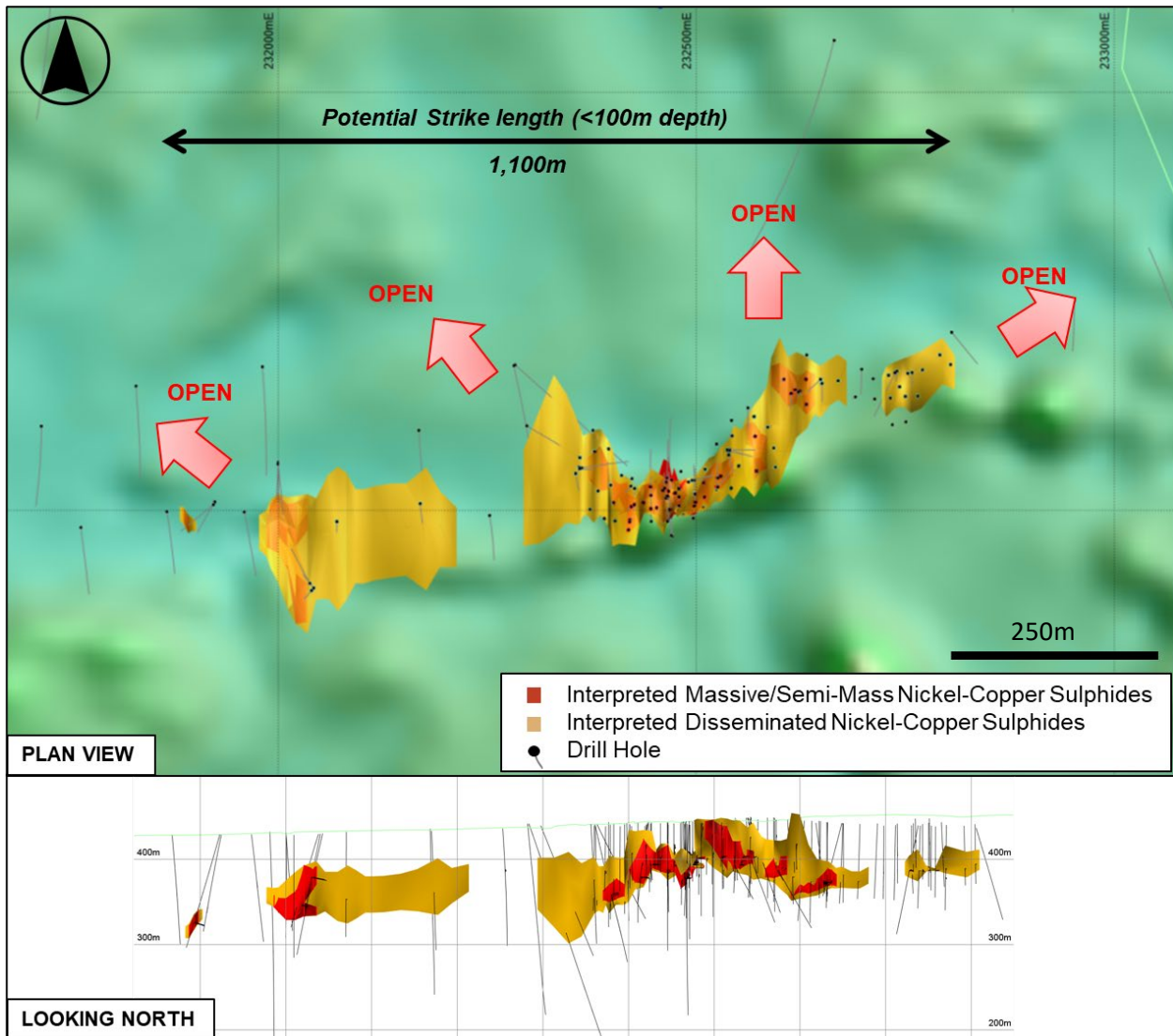


**Figure 2 - Top left:** shows the interpreted mineralised envelope for Stricklands in 2020. **Bottom right:** shows the increase in the interpreted mineralised envelope today at Stricklands and Investigators East. Both figures are plan view maps with schematic diagrams of the mineralised envelope and completed drill holes shown (set against RTP\_1VD magnetics).

The success of MAD209 confirms the continuity of the Stricklands Deposit to the north-west, with mineralisation still open in this down-dip direction.

Drilling of MAD210 has now commenced to test a strong EM conductor (22,500 Siemens), also located north-west of the Stricklands Deposit – approximately 30m to the south-west of MAD209.

As part of the major extension and infill drill programme underway an additional 3,000m of RC drilling is planned at Stricklands and Investigators East to further test the extent of the known high-grade mineralisation. Figure 3 highlights the open areas to be tested by the planned RC drilling.



**Figure 3 – Top:** plan view map (against magnetics) with schematic diagram of the Stricklands and Investigators East mineralised envelope. **Bottom:** Long section looking north of the mineralised envelope at Stricklands and Investigators East with completed drill holes shown.

**INVESTIGATORS – INFILL FOR WIDESPREAD MINERALISATION**

Drilling to date has shown an extensive mineralised system at Investigators over a strike of more than 1km. Mineralisation starts from 25m below surface, in MAD038, and continues at depth with our deepest intersection of massive sulphides in MAD199 at 333m downhole.

Many high-grade intercepts have been returned from drilling at Investigators – including MAD127 and MAD177, the best-ever intercepts for the Mt Alexander Project to date, and both at less than 200m below surface.

Assays returned for the abovementioned high-grade drill holes are:

**MAD038:**

**10.14m @ 1.1% Ni, 0.38% Cu, 0.03% Co and 1.0 g/t total PGEs from 18m, including 2.74m @ 3.28% Ni, 1.27% Cu, 0.08% Co and 3.41 g/t total PGEs from 25.4m**

**MAD127 (photo of drill core at left below):**

**8.49m @ 5.48% Ni, 2.53% Cu, 0.18% Co and 3.61 g/t total PGEs from 183.9m, including 6.39m @ 6.48% Ni, 2.77% Cu, 0.21% Co and 3.68 g/t total PGEs from 184.42m**

**MAD177 (photo of drill core at right below):**

**10.5m @ 4.82% Ni, 1.67% Cu, 0.15% Co and 2.87 g/t total PGEs from 182.5m, including 4m @ 7.53% Ni, 2.47% Cu, 0.23% Co and 3.92 g/t total PGEs from 186m**

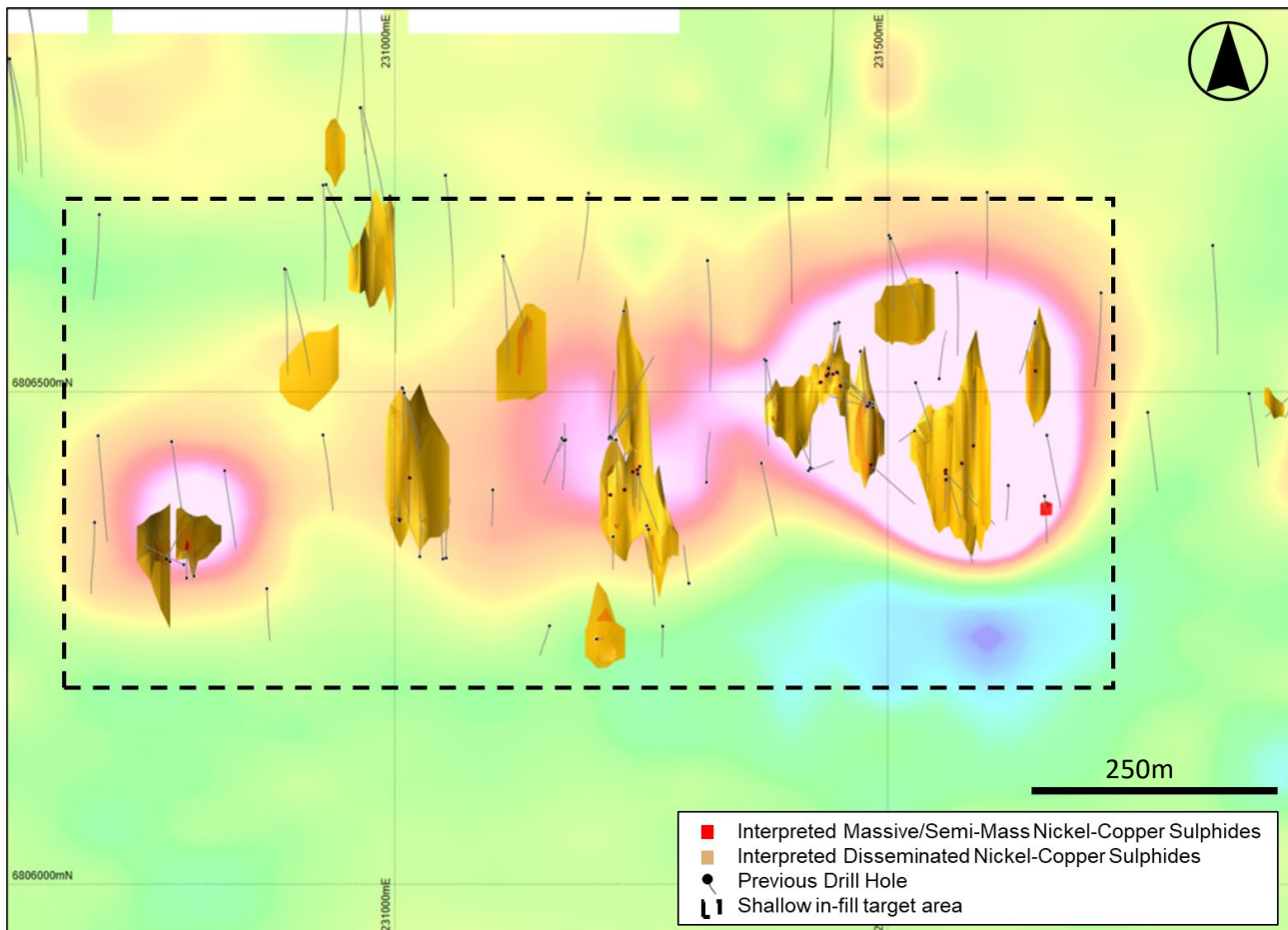
**MAD199:**

**11.07m @ 1.58% Ni, 0.71% Cu, 1.23g/t total PGEs from 333.5m, including 3.9m @ 3.98% Ni, 1.8% Cu, 3.1g/t total PGEs from 340.67m, and including 1.28m @ 6.54% Ni, 2.96% Cu, 3.88g/t total PGEs from 342.12m**



In the first phase of the infill drill programme at Investigators, RC drilling is planned to test the continuity of the high-grade mineralisation already discovered.

Figure 4 shows the current defined zones of high-grade mineralisation at Investigators and highlights the large prospective area for extensional and infill drilling.



**Figure 4** – plan view map of Investigators (against FLEM SAMSON Channel 18 data) showing the interpreted mineralisation discovered to date. Shallow infill drilling is planned for the area within the rectangle depicted by the broken line.

**CURRENT DRILLING AT MT ALEXANDER**

The extensional drilling is continuing with the diamond drill rig currently drilling MAD210 to test another strong EM conductor (22,500 Siemens) at Stricklands

Hole ID	Tenement	East	North	RL	EOH Depth	Target Depth	DIP	AZI	Target
MAD206	E29/548	231238	6808009	414	1,003.9	850	-70	167	S1
MAD207	E29/548	230150	6808081	408	653.3	550	-65	173	S2
MAD208	E29/638	231238	6806942	421	647.1	320	-70	350	S3
MAD209	E29/638	232297	6806600	440	173	120	-65	106	EM- 10k S
MAD210	E29/638	232297	6806600	440	140	110	-65	135	EM- 22k S

Table 1 – drill hole details for the holes in the current diamond drill programme.

Further drilling for the extension and infill strategy for the known near-surface mineralisation will be announced shortly.

The drilling of the seismic targets has been deferred until completion of further seismic lines at Mt Alexander.

In addition to the extension and infill drill programme discussed above, further drilling is planned for the June and September Quarters for the initial drill testing of the large, conceptual targets recently generated and announced in our ASX Release dated 29 March 2022 *Exploration Update - Mt Alexander*.



**Figure 5 – diamond drilling in progress at Mt Alexander.**

## **COVID-19:**

St George continues to manage its operations in compliance with COVID-19 regulations issued by State and Commonwealth authorities. We proactively manage drilling and other field programmes to protect the health and safety of our team and service providers.

The pandemic has restricted access to personnel for drill rig crews, which is constraining the availability of drill rigs. St George is in close contact with its drilling contractors to best manage access and continuity to drilling services.

## **About the Mt Alexander Project:**

The Mt Alexander Project is located 120km south south-west of the Agnew-Wiluna Belt, which hosts numerous world-class nickel deposits. The Project comprises six granted exploration licences – E29/638, E29/548, E29/962, E29/954, E29/972 and E29/1041 – which are a contiguous package. A seventh granted exploration licence – E29/1093 – is located to the south-east of the core tenement package.

The Cathedrals, Stricklands, Investigators and Radar nickel-copper-cobalt-PGE discoveries are located on E29/638, which is held in joint venture by St George (75%) and Western Areas Limited (25%). St George is the Manager of the Project, with Western Areas retaining a 25% non-contributing interest (in E29/638 only) until there is a decision to mine. All other Project tenements are owned 100% by St George.

Authorised for release by the Board of St George Mining Limited.

## **For further information, please contact:**

### **John Prineas**

Executive Chairman  
St George Mining Limited  
+61 411 421 253  
[john.prineas@stgm.com.au](mailto:john.prineas@stgm.com.au)

### **Peter Klinger**

Media and Investor Relations  
Cannings Purple  
+61 411 251 540  
[pklinger@canningspurple.com.au](mailto:pklinger@canningspurple.com.au)

## **Competent Person Statement:**

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves for the Mt Alexander Project is based on information compiled by Mr Dave Mahon, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Mahon is employed by St George Mining Limited to provide technical advice on mineral projects, and he holds performance rights issued by the Company.

Mr Mahon has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Mahon consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



The following section is provided for compliance with requirements for the reporting of exploration results under the JORC Code, 2012 Edition.

**Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<i>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.</i>	<p><i>Diamond Core Sampling:</i> The sections of the core that are selected for assaying are marked up and then recorded on a sample sheet for cutting and sampling at the certified assay laboratory. Samples of HQ or NQ2 core are cut just to the right of the orientation line where available using a diamond core saw, with half core sampled lengthways for assay.</p> <p><i>RC Sampling:</i> All samples from the RC drilling are taken as 1m samples for laboratory assay. Samples are collected using cone or riffle splitter. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.</p> <p><i>DHEM Surveying:</i> The surveys were conducted using the DigiAtlantis system and VTX-100 transmitter. The readings were recorded at 5m intervals with 1m infill down hole. The surveys used 400 x 400m loops orientated to magnetic north.</p> <p><i>Gravity Surveying:</i> A ground gravity survey was completed by Atlas Geophysics. The following primary instrumentation was used for acquisition of the data;</p> <ul style="list-style-type: none"> <li>- Scintrex CG-5 Autograv Gravity Meter (accuracy &lt;0.02 mGal)</li> <li>- CHC Nav i70+ GNSS Rover Receiver</li> <li>- CHC Nav i70+ GNSS Base Receiver</li> <li>- Garmin GPS receivers for navigation</li> </ul> <p>Gravity surveys are used to detect density contrasts which may be related to the underlying lithology and rock types, alteration of minerals or mineralisation.</p> <p>Seismic: The surveys were conducted by Apex Geo Pty Ltd independent contractors using the Aram Aries 1 instrument with an accelerated weight drop and picked up by the sercel SM-24 Geophone sensors.</p>
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	<p><i>RC Sampling:</i> Samples are taken on a one metre basis and collected using uniquely numbered calico bags. The remaining material for that metre is collected and stored in a green plastic bag marked with that specific metre interval. The cyclone is cleaned with compressed air after each plastic and calico sample bag is removed. If wet sample or clays are encountered then the cyclone is opened and cleaned manually and with the aid of a compressed air gun. A blank sample is inserted at the beginning of each hole, and a duplicate sample is taken every 50<sup>th</sup> sample. A certified sample standard is also added according to geology, but at no more than 1:50 samples.</p> <p>Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays. Downhole surveys of dip and azimuth are conducted using a single shot camera every 30m, and using a downhole Gyro when required, to detect deviations of the hole from the planned dip and azimuth. The drill-hole collar locations are recorded using a hand-held GPS, which has an accuracy of +/- 5m. All drill-hole collars will be surveyed to a greater degree of accuracy using a certified surveyor at a later date.</p> <p><i>Diamond Core Sampling:</i> For diamond core samples, certified sample standards were added as every 25<sup>th</sup> sample. Core recovery calculations are made through a reconciliation of the actual core and the driller's records. Downhole surveys of dip and azimuth were</p>

Criteria	JORC Code explanation	Commentary
	<p><i>Aspects of the determination of mineralisation that are Material to the Public Report.</i></p> <p><i>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.</i></p>	<p>conducted using a single shot camera every 30m to detect deviations of the hole from the planned dip and azimuth. The drill-hole collar locations are recorded using a hand-held GPS, which has an accuracy of +/- 5m.</p> <p><i>RC Sampling:</i> A 1m composite sample is taken from the bulk sample of RC chips that may weigh in excess of 40 kg. Each sample collected for assay typically weighs 2-3kg, and once dried, is prepared for the laboratory as per the Diamond samples below.</p> <p><i>Diamond Core Sampling:</i> Diamond core (both HQ and NQ2) is half-core sampled to geological boundaries no more than 1.5m and no less than 10cm. Samples less than 3kg are crushed to 10mm, dried and then pulverised to 75µm. Samples greater than 3kg are first crushed to 10mm then finely crushed to 3mm and input into the rotary splitters to produce a consistent output weight for pulverisation.</p> <p>Pulverisation produces a 40g charge for fire assay. Elements determined from fire assay are gold (Au), platinum (Pt) and palladium (Pd) with a 1ppb detection limit. To determine other PGE concentrations (Rh, Ru, Os, Ir) a 25g charge for nickel sulphide collect fire assay is used with a 1ppb detection limit.</p> <p>Other elements will be analysed using an acid digest and an ICP finish. These elements are: Ag, Al, As, Bi, Ca, Cd, Co, Cr, Fe, K, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Sn, Te, Ti, V, W, Zn. The sample is digested with nitric, hydrochloric, hydrofluoric and perchloric acids to effect as near to total solubility of the sample as possible. The sample is then analysed using ICP-AES or ICP-MS.</p> <p>LOI (Loss on Ignition) will be completed on selected samples to determine the percentage of volatiles released during heating of samples to 1000°C.</p>
<b>Drilling techniques</b>	<p><i>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).</i></p>	<p><i>Diamond Core Sampling:</i> The collars of the diamond holes were drilled using RC drilling down through the regolith to the point of refusal or to a level considered geologically significant to change to core. The hole was then continued using HQ diamond core until the drillers determined that a change to NQ2 coring was required.</p> <p>The core is oriented and marked by the drillers. The core is oriented using ACT Mk II electric core orientation.</p> <p><i>RC Sampling:</i> The RC drilling uses a 140 mm diameter face hammer tool. High capacity air compressors on the drill rig are used to ensure a continuously sealed and high-pressure system during drilling to maximise the recovery of the drill cuttings, and to ensure chips remain dry to the maximum extent possible.</p>
<b>Drill sample recovery</b>	<p><i>Method of recording and assessing core and chip sample recoveries and results assessed.</i></p> <p><i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i></p>	<p><i>Diamond Core Sampling:</i> Diamond core recoveries are recorded during drilling and reconciled during the core processing and geological logging. The core length recovered is measured for each run and recorded which is used to calculate core recovery as a percentage.</p> <p><i>RC Sampling:</i> RC samples are visually checked for recovery, moisture and contamination. Geological logging is completed at site with representative RC chips stored in chip trays.</p> <p><i>RC Sampling:</i> Samples are collected using cone or riffle splitter. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.</p> <p><i>Diamond Core Sampling:</i> Measures taken to maximise core recovery include using appropriate core diameter and shorter barrel length through the weathered zone, which at Cathedrals and Investigators is mostly &lt;20m and Stricklands &lt;40m depth. Primary locations for core loss in fresh rock are on geological contacts and structural zones, and</p>

Criteria	JORC Code explanation	Commentary
		drill techniques are adjusted accordingly, and if possible, these zones are predicted from the geological modelling.
	<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>	To date, no sample recovery issues have yet been identified that would impact on potential sample bias in the competent fresh rocks that host the mineralised sulphide intervals.
<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>	Geological logging is carried out on all drill holes with lithology, alteration, mineralisation, structure and veining recorded.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i>	Logging of diamond core and RC samples records lithology, mineralogy, mineralisation, structures (core only), weathering, colour and other noticeable features. Core was photographed in both dry and wet form.
	<i>The total length and percentage of the relevant intersections logged.</i>	All drill holes are geologically logged in full and detailed litho-geochemical information is collected by the field XRF unit. The data relating to the elements analysed is used to determine further information regarding the detailed rock composition.
<b>Sub-sampling techniques and sample preparation</b>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	<b>Diamond Core Sampling:</b> Diamond core was drilled with HQ and NQ2 size and sampled as complete half core to produce a bulk sample for analysis. Intervals selected varied from 0.3 – 1m (maximum) The HQ and NQ2 core is cut in half length ways just to the right of the orientation line where available using a diamond core saw. All samples are collected from the same side of the core where practicable.  Assay preparation procedures ensure the entire sample is pulverised to 75 microns before the sub-sample is taken. This removes the potential for the significant sub-sampling bias that can be introduced at this stage.
	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	RC samples are collected in dry form. Samples are collected using cone or riffle splitter when available. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	<b>RC Sampling:</b> Sample preparation for RC chips follows a standard protocol.  The entire sample is pulverised to 75µm using LM5 pulverising mills. Samples are dried, crushed and pulverized to produce a homogenous representative sub-sample for analysis. A grind quality target of 90% passing 75µm is used.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	Quality control procedures include submission of Certified Reference Materials (standards), duplicates and blanks with each sample batch. QAQC results are routinely reviewed to identify and resolve any issues.  <b>RC Sampling:</b> Field QC procedures maximise representivity of RC samples and involve the use of certified reference material as assay standards, along with blanks, duplicates and barren washes.  <b>Diamond Core Sampling:</b> Drill core is cut in half lengthways and the total half-core submitted as the sample. This meets industry standards where 50% of the total sample taken from the diamond core is submitted.

Criteria	JORC Code explanation	Commentary
	<p><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></p>	<p>Duplicate samples are selected during sampling. Samples comprise two quarter core samples for Diamond Core. Duplicate RC samples are captured using two separate sampling apertures on the splitter.</p>
	<p><i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i></p>	<p>The sample sizes are considered to be appropriate to correctly represent base metal sulphide mineralisation and associated geology based on: the style of mineralisation (massive and disseminated sulphides), the thickness and consistency of the intersections and the sampling methodology.</p>
<p><b>Quality of assay data and laboratory tests</b></p>	<p><i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i></p>	<p>A 25-50gram sample will be fire assayed for gold, platinum and palladium, using a minimum detection value of 1ppb for gold is 1ppb and 0.5ppb for platinum and palladium.</p> <p>All other metals will be analysed using an acid digest and an ICP finish. The sample is digested with nitric, hydrochloric, hydrofluoric and perchloric acids to effect as near to total solubility of the sample as possible. The solution containing samples of interest, including those that need further review, will then be presented to an ICP-OES for the further quantification of the selected elements.</p> <p>Diamond core samples are analysed for Au, Pt and Pd using a 40g lead collection fire assay; for Rh, Ru, Os, Ir using a 25g nickel sulphide collection fire assay; and for Ag, Al, As, Bi, Ca, Cd, Co, Cr, Fe, K, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Sn, Te, Ti, V, W, Zn using a four acid digest and ICP-AES or MS finish. The assay method and detection limits are appropriate for analysis of the elements required.</p>
	<p><i>For geophysical tools, spectrometres, handheld XRF instruments, etc, the parametres used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i></p>	<p><b>DHEM:</b> The surveys were conducted using the DigiAtlantis system and VTX-100 transmitter. The readings were recorded at 5m intervals with 1m infill down hole. The transmitter produced 96amps and recorded at a frequency of 0.5Hz.</p> <p><b>XRF:</b> A handheld XRF instrument (Olympus Innov-X Spectrum Analyser) is used to systematically analyse the drill core and RC sample piles onsite. One reading is taken per metre, however for any core samples with matrix or massive sulphide mineralisation then multiple samples are taken at set intervals per metre. The instruments are serviced and calibrated at least once a year. Field calibration of the XRF instrument using standards is periodically performed (usually daily).</p> <p>The handheld XRF results are only used for preliminary assessment and reporting of element compositions, prior to the receipt of assay results from the certified laboratory.</p> <p><b>Gravity:</b> A Scintrex CG-5 Autograv Gravity Meter was used for data acquisition which has an accuracy of &lt;0.02 mGal</p> <p>Elevation information was captured using CHC Nav i70+ GNSS receivers with an accuracy of &lt;2m.</p>
	<p><i>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.</i></p>	<p>Laboratory QAQC involves the use of internal lab standards using certified reference material (CRMs), blanks and pulp duplicates as part of in-house procedures. The Company also submits a suite of CRMs, blanks and selects appropriate samples for duplicates.</p> <p>Sample preparation checks for fineness are performed by the laboratory to ensure the grind size of 90% passing 75µm is being attained.</p>
<p><b>Verification of sampling and assaying</b></p>	<p><i>The verification of significant intersections by either independent or alternative company personnel.</i></p>	<p>Significant intersections are verified by the Company's technical staff.</p>

Criteria	JORC Code explanation	Commentary
	<i>The use of twinned holes.</i>	No twinned holes have been planned for the current drill programme.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	Primary data is captured onto a laptop using acQuire software and includes geological logging, sample data and QA/QC information. This data, together with the assay data, is entered into the St George Mining central SQL database which is managed by external consultants.
	<i>Discuss any adjustment to assay data.</i>	No adjustments or calibrations will be made to any primary assay data collected for the purpose of reporting assay grades and mineralised intervals. For the geological analysis, standards and recognised factors may be used to calculate the oxide form assayed elements, or to calculate volatile free mineral levels in rocks.
<b>Location of data points</b>	<i>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.</i>	<p>Drill holes and MT/AMT stations have been located and pegged using a DGPS system with an expected accuracy of +/-5m for easting, northing and elevation.</p> <p>Downhole surveys are conducted using a single shot camera approximately every 30m or downhole Gyro during drilling to record and monitor deviations of the hole from the planned dip and azimuth. Post-drilling downhole gyroscopic surveys will be conducted, which provide more accurate survey results.</p> <p>The Gravity data was positioned using CHCi70+ DGPS receivers operating in kinematic mode.</p> <p>Seismic survey: all stations were located using NAVCOM DGPS survey equipment. Vibration source points readings were taken every 10m along the lines, with receiver nodes at 5m spacing along the lines for 1,944 data collection points and a total of 12 lineal km were traversed to collect the 2D Seismic data set</p>
	<i>Specification of the grid system used.</i>	The grid system used is GDA94, MGA Zone 51.
	<i>Quality and adequacy of topographic control.</i>	Elevation data has been acquired using DGPS surveying at individual collar locations and entered into the central database. A topographic surface has been created using this elevation data.
<b>Data spacing and distribution</b>	<i>Data spacing for reporting of Exploration Results.</i>	<p>The spacing and distribution of holes is not relevant to the drilling programs which are at the exploration stage rather than definition drilling.</p> <p>The gravity data was collected at 25m station spacings.</p>
	<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 completed drilling at the Project is not sufficient to establish the degree of geological and grade continuity to support the definition of Mineral Resource and Reserves and the classifications applied under the 2012 JORC code.
	<i>Whether sample compositing has been applied.</i>	No compositing has been applied to the exploration results.
<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>	<p>The drill holes are drilled to intersect the modelled mineralised zones at a near perpendicular orientation (unless otherwise stated). However, the orientation of key structures may be locally variable and any relationship to mineralisation has yet to be identified.</p> <p>Seismic: Three north-south oriented lines approximately perpendicular to the strike of known host structures of the Cathedrals belt were completed. Lines were spaced an average of 1.2km apart. The length of lines were designed to allow imaging of deep structures to approximately 1.5km depths.</p>

Criteria	JORC Code explanation	Commentary
	<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 orientation based sampling bias has been identified in the data to date.
<b>Sample security</b>	<i>The measures taken to ensure sample security.</i>	Chain of Custody is managed by the Company until samples pass to a certified assay laboratory for subsampling and assaying. The RC sample bags are stored on secure sites and delivered to the assay laboratory by the Company or a competent agent. When in transit, they are kept in locked premises. Transport logs have been set up to track the progress of samples.
<b>Audits or reviews</b>	<i>The results of any audits or reviews of sampling techniques and data.</i>	Sampling techniques and procedures are regularly reviewed internally, as is data. To date, no external audits have been completed on the drilling programme.  Results of the Seismic dataset was processed and queried by Dayborageo Geophysical Pty Ltd. Interpretations were completed by Rock Solid Seismic Pty Ltd with assistance from SGQ geologists. Both are independent contractors engaged by St George Mining.

## Section 2 Reporting of Exploration Results (Criteria listed in section 1 will also apply to this section where relevant)

Criteria	JORC Code explanation	Commentary
<b>Mineral Tenement and Land Status</b>	<i>Type, name/reference number, location and ownership including agreements or material issues with third parties including joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i>  <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>	The Mt Alexander Project is comprised of six granted Exploration Licences (E29/638, E29/548, E29/954, E29/962, E29/972 and E29/1041). Tenement E29/638 is held in Joint Venture between St George (75% interest) and Western Areas (25% interest). E29/638 and E29/548 are also subject to a royalty in favour of a third party that is outlined in the ASX Release dated 17 December 2015 (as regards E29/638) and the ASX release dated 18 September 2015 (as regards E29/548).  No environmentally sensitive sites have been identified on the tenements. A registered Heritage site known as Willsmore 1 (DAA identification 3087) straddles tenements E29/548 and E29/638. All five tenements are in good standing with no known impediments.
<b>Exploration Done by Other Parties</b>	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Exploration on tenements E29/638 and E29/962 has been largely focused on the discovery of komatiite-hosted nickel sulphides within the Mt Alexander Greenstone Belt. Exploration in the northern section of E29/638 (Cathedrals Belt) and also limited exploration on E29/548 has been for mafic/ultramafic intrusion related Ni-Cu-PGE sulphides. No historic exploration has been identified on E29/954 or E29/972.  Mafic-Ultramafic intrusion related high grade nickel-copper-PGE sulphides were discovered at the Mt Alexander Project in 2008. Drilling was completed to test co-incident electromagnetic (EM) and magnetic anomalies associated with nickel-PGE enriched gossans in the northern section of current tenement E29/638. The drilling identified high grade nickel-copper mineralisation in granite-hosted and East-West orientated ultramafic units and the discovery was named the Cathedrals Prospect.
<b>Geology</b>	<i>Deposit type, geological setting and style of mineralisation</i>	The Mt Alexander Project is at the northern end of a western bifurcation of the Mt Ida Greenstones. The greenstones are bound to the west by the interpreted Ida Fault, a significant Craton-scale structure that marks the boundary between the Kalgoorlie Terrane (and Eastern Goldfields Superterrane) to the east and the Youanmi Terrane to the west.  The Mt Alexander Project is prospective for further high-grade nickel-mineralisation (both komatiite and mafic-ultramafic intrusive hosted) and also precious metal mineralisation (i.e. orogenic gold) that is

Criteria	JORC Code explanation	Commentary
		typified elsewhere in the Yilgarn Craton.
<b>Drill hole information</b>	<p>A summary of all information material to the understanding of the exploration results including tabulation of the following information for all Material drill holes:</p> <ul style="list-style-type: none"> <li>• Easting and northing of the drill hole collar</li> <li>• Elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>• Dip and azimuth of the hole</li> <li>• Down hole length and interception depth</li> <li>• Hole length</li> </ul>	Drill hole collar locations are shown in the maps and tables included in the body of the relevant ASX releases.
<b>Data aggregation methods</b>	<p>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.</p>	<p>Reported assay intersections are length and density weighted. Significant intersections are determined using both qualitative (i.e. geological logging) and quantitative (i.e. lower cut-off) methods.</p> <p>For massive sulphide intersections, the nominal lower cut-off is 2% for either nickel or copper. For disseminated, blebby and matrix sulphide intersections the nominal lower cut-off for nickel is 0.3%.</p>
	<p>Where aggregated 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.</p>	<p>Any high-grade sulphide intervals internal to broader zones of sulphide mineralisation are reported as included intervals.</p> <p>Any disseminated, matrix, brecciated or stringer sulphides with (usually) &gt;1% nickel or copper on contact with massive sulphide mineralisation are grouped with the massive sulphides for calculating significant intersections.</p>
	<p>The assumptions used for any reporting of metal equivalent values should be clearly stated.</p>	<p>No metal equivalent values are used for reporting exploration results.</p>
<b>Relationship between mineralisation widths and intercept lengths</b>	<p>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.</p>	<p>Assay intersections are reported as down hole lengths. Drill holes are planned as perpendicular as possible to intersect the target EM plates and geological targets so downhole lengths are usually interpreted to be near true width.</p>
<b>iagrams</b>	<p>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 plane view of drill hole collar locations and appropriate sectional views.</p>	<p>A prospect location map, cross section and long section are shown in the body of relevant ASX Releases.</p>
<b>Balanced Reporting</b>	<p>Where comprehensive reporting of all Exploration Results is not practical, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</p>	<p>Reports on recent exploration can be found in ASX Releases that are available on our website at <a href="http://www.stgm.com.au">www.stgm.com.au</a>:</p> <p>The exploration results reported are representative of the mineralisation style with grades and/or widths reported in a consistent manner.</p>
<b>Other substantive exploration data</b>	<p>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observation; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment;</p>	<p>All material or meaningful data collected has been reported.</p>

Criteria	JORC Code explanation	Commentary
	<p><i>metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i></p>	
<p><b>Further Work</b></p>	<p><i>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.</i></p>	<p>A discussion of further exploration work underway is contained in the body of recent ASX Releases.</p> <p>Further exploration will be planned based on ongoing drill results, geophysical surveys and geological assessment of prospectivity.</p>