

## **HIGH GRADE SAPROLITE-HOSTED GRAPHITE DRILL RESULTS FROM MALINGUNDE**

ASX:SVM

Sovereign Metals Limited ("the Company" or "Sovereign") is pleased to report the first batch of assay results from the 2017 aircore drilling program completed at the Malingunde saprolite-hosted flake graphite deposit in Malawi.

Aircore drilling was conducted in late 2017, with 210 holes for 6,212 metres completed. The drilling program was designed to further define and upgrade the JORC resource classification levels for inclusion in the Malingunde Pre-feasibility Study, as well as to test graphite mineralisation at Malingunde South Extension and other targets.

The results continue to confirm the excellent consistency of high-grade mineralisation along strike, as well as the substantial vertical thickness of the deposit, and will be incorporated into the updated JORC resource estimate, expected to be delivered in early Q2 2018.

#### **HIGHLIGHTS:**



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Assays for the first batch of aircore samples (36 holes of total 210) have been received. These holes focused on infilling the southern-most zone of mineralisation at Malingunde.

۲ Results for the 192 remaining aircore holes, including drilling at Malingunde South Extension, are expected to be delivered over the coming 4 to 6 weeks, and will be provided to the market when received.

The results continue to show zones of discrete, very high-grade saprolite-hosted graphite within the broader mineralised zones over >3.5km of strike.

۲ Results include:

- MGAC0182: 23m @ 21.2% TGC
- MGAC0183: 36m @ 11.1% TGC inc. 8m @ 20.1% TGC
- MGAC0186: 12m @ 14.5% TGC inc. 6m @ 20.0% TGC
- MGAC0190: 21m @ 14.8% TGC inc. 14m @ 17.3% TGC

Sovereign's Managing Director Dr Julian Stephens commented, "These results continue to confirm thick, high-grade saprolite-hosted graphite mineralisation. Importantly, the deposit contains very high-grade zones circa 15 to 20% TGC of very coarse flake graphite mineralisation hosted in soft saprolite. The combination of grade, flake size and the soft nature of the host saprolite create a fantastic platform to develop a low cost, high margin graphite operation."

**ENQUIRIES** Julian Stephens Managing Director +618 9322 6322 Dominic Allen **Business Development Manager** 



### Infill Aircore Drilling Results

The 2017 infill drilling program comprised 210 aircore holes for 6,212 metres of drilling. Results for the first 36 aircore holes targeting the southern part of the main Malingunde deposit have been received.

The initial assay results continue to confirm the excellent consistency of high-grade mineralisation as well as the substantial vertical thickness of the deposit, and will be incorporated into the updated JORC resource estimate, expected to be delivered in early Q2 2018.

The deposit contains very high-grade zones (circa 20% TGC) of very coarse flake graphite mineralisation hosted in very soft saprolite. The combination of grade, flake size and the very soft nature of the host saprolite create the potential for very low cost, high margin production.

Results for the remaining holes from the 2017 aircore drilling program at Malingunde will be reported as they are received over the coming weeks. The Company also expects to provide an update to the market on the ongoing Malingunde Pre-Feasibility Study shortly.

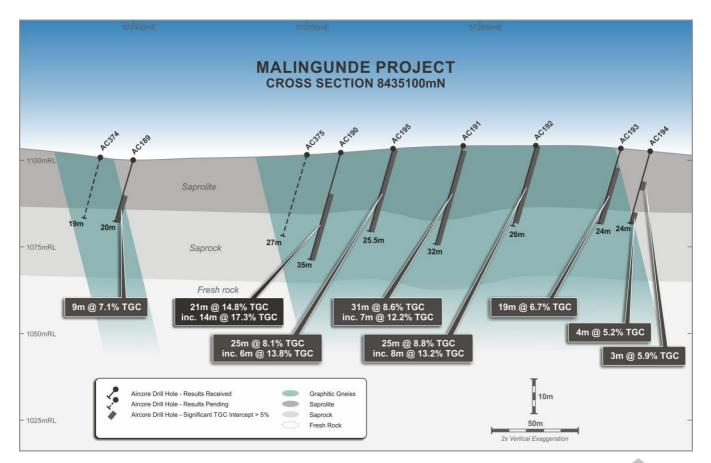


Figure 1. Cross-section showing high-grade, saprolite-hosted graphite mineralisation.



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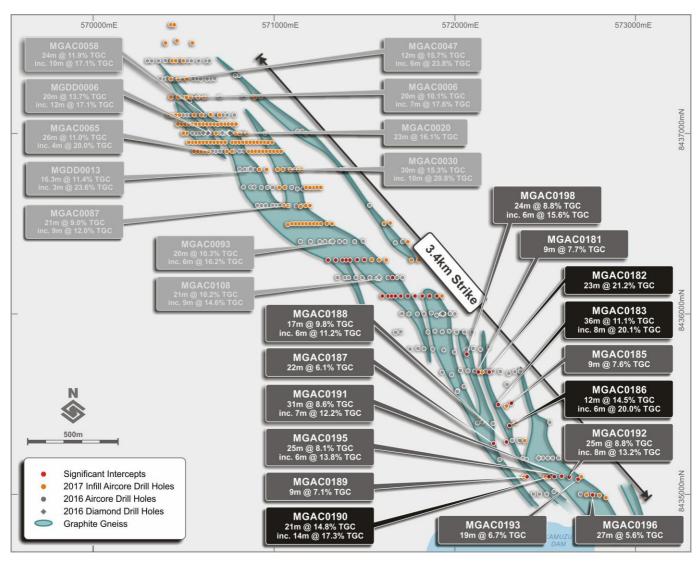


Figure 2. Map showing selected, recently received drilling results over mineralised zones at Malingunde

#### Corporate

The Board has resolved that with effect from 1 January 2018, the salary of Dr Julian Stephens, Managing Director, will increase to \$215,000 plus superannuation. In addition, Dr Stephens will also be entitled to receive a discretionary cash bonus of up to \$50,000 per annum from 1 January 2018 upon successful completion of key performance indicators as determined by the Company.



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#### **Competent Person Statement**

The information in this report that relates to Exploration Results is based on information compiled by Dr Julian Stephens, a Competent Person who is a member of the Australian Institute of Geoscientists (AIG). Dr Stephens is the Managing Director of Sovereign Metals Limited and a holder of shares, options and performance rights in Sovereign Metals Limited. Dr Stephens 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'. Dr Stephens consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this announcement that relates to previous Exploration Results is extracted from announcements 18 January 2017, 21 February 2017 and 15 March 2017. These announcements are available to view on www.sovereignmetals.com.au. The information in the original announcements that related to Exploration Results were based on, and fairly represents, information compiled by Dr Julian Stephens, a Competent Person who is a member of the Australasian Institute of Geoscientists (AIG). Dr Stephens 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'. 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 announcements.

#### Forward Looking Statement

This release may include forward-looking statements, which may be identified by words such as "expects", "anticipates", "believes", "projects", "plans", and similar expressions. These forward-looking statements are based on Sovereign's expectations and beliefs concerning future events. Forward looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Sovereign, which could cause actual results to differ materially from such statements. There can be no assurance that forward-looking statements will prove to be correct. Sovereign makes no undertaking to subsequently update or revise the forward-looking statements made in this release, to reflect the circumstances or events after the date of that release.



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### Appendix 1

Table A. Aircore drill-hole details

Hole ID	Easting UTM	Northing UTM	RL (m)	Total depth (m)	Dip	Azimuth (UTM)	Hole Type
MGAC0181	572130	8435680	1126	30	-60	270	Aircore
MGAC0182	572190	8435680	1126	36	-60	270	Aircore
MGAC0183	572240	8435500	1121	36	-60	270	Aircore
MGAC0184	572286	8435492	1121	25	-60	270	Aircore
MGAC0185	572313	8435508	1122	33	-60	270	Aircore
MGAC0186	572302	8435385	1118	29	-60	270	Aircore
MGAC0187	572213	8435285	1114	26	-60	270	Aircore
MGAC0188	572284	8435293	1114	36	-60	270	Aircore
MGAC0189	572400	8435100	1103	20	-60	270	Aircore
MGAC0190	572520	8435100	1105	35	-60	270	Aircore
MGAC0191	572590	8435104	1107	32	-60	270	Aircore
MGAC0192	572632	8435100	1107	26	-60	270	Aircore
MGAC0193	572681	8435088	1106	24	-60	270	Aircore
MGAC0194	572698	8435100	1106	24	-60	270	Aircore
MGAC0195	572549	8435100	1105	26	-60	270	Aircore
MGAC0196	572760	8435000	1099	27	-60	270	Aircore
MGAC0197	572834	8434985	1096	18	-60	270	Aircore
MGAC0198	572066	8435779	1127	36	-60	270	Aircore
MGAC0199	571599	8436100	1132	34	-60	270	Aircore
MGAC0200	571630	8436100	1132	33	-60	270	Aircore
MGAC0201	571650	8436100	1133	31	-60	270	Aircore
MGAC0202	571670	8436100	1133	29	-60	270	Aircore
MGAC0203	571701	8436100	1133	33	-60	270	Aircore
MGAC0204	571740	8436100	1133	32	-60	270	Aircore
MGAC0205	571780	8436100	1134	36	-60	270	Aircore
MGAC0206	571820	8436100	1134	36	-60	270	Aircore
MGAC0207	571861	8436100	1135	42	-60	270	Aircore
MGAC0208	571900	8436100	1135	41	-60	270	Aircore
MGAC0209	571657	8436203	1136	33	-60	270	Aircore
MGAC0210	571300	8436300	1138	36	-60	270	Aircore
MGAC0211	571341	8436300	1138	31	-60	270	Aircore
MGAC0212	571380	8436300	1137	23	-60	270	Aircore
MGAC0213	571400	8436300	1137	27	-60	270	Aircore
MGAC0214	571420	8436300	1137	30	-60	270	Aircore
MGAC0215	571459	8436300	1137	32	-60	270	Aircore
MGAC0216	571500	8436300	1138	33	-60	270	Aircore



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### Table B. Aircore drilling significant intercepts (>=5.0% TGC)

MGAC0181		To (m)	Width (m)	TGC (%)	Base of Saprolite (m) down-hole
	7	16	9	7.7	*
MGAC0182	13	36	23	21.2	31
inc	15	36	21	22.8	
MGAC0183	0	36	36	11.1	34
inc	28	36	8	20.1	
MGAC0184			NSI		
MGAC0185	5	14	9	7.6	*
MGAC0186	1	13	12	14.5	*
inc	1	7	6	20.0	
MGAC0187	4	26	22	6.1	23
MGAC0188	3	6	3	8.6	*
and	19	36	17	9.8	33
inc	21	27	6	11.2	
MGAC0189	11	20	9	7.1	15
MGAC0190	13	34	21	14.8	20
inc	20	34	14	17.3	
MGAC0191	1	32	31	8.6	25
inc	25	32	7	12.2	
MGAC0192	0	25	25	8.8	20
inc	17	25	8	13.2	
MGAC0193	5	24	19	6.7	19
MGAC0194	10	13	3	5.9	*
and	20	24	4	5.2	20
MGAC0195	0	25	25	8.1	19
inc	19	25	6	13.8	
MGAC0196	0	27	27	5.6	22
MGAC0197	-		NSI		
MGAC0198	10	29	19	9.9	*
inc	19	25	6	15.6	
MGAC0199	2	18	16	6.6	*
and	24	34	10	8.2	32
inc	31	34	3	13.5	
MGAC0200	13	33	20	6.4	28
MGAC0201	21	31	10	6.1	28
MGAC0202			NSI		
MGAC0203	18	21	3	5.5	29
MGAC0204	3	6	3	8.9	29
MGAC0205	2	6	4	6.3	*
and	9	29	20	7.9	*



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Hole ID	From (m)	To (m)	Width (m)	TGC (%)	Base of Saprolite (m) down-hole
MGAC0206	6	12	6	5.6	*
and	26	36	10	7.9	31
MGAC0207	4	7	3	5.8	*
and	15	25	10	6.2	*
MGAC0208	14	40	26	6.6	33
MGAC0209	17	33	16	8.1	29
MGAC0210			NSI		
MGAC0211	5	30	25	6.0	28
MGAC0212	6	23	17	6.2	21
MGAC0213	8	27	19	6.3	19
MGAC0214	3	30	27	7.4	28
inc	4	11	7	12.5	
MGAC0215	22	30	8	9.0	28
MGAC0216		·	NSI		

\* intercept terminates above base of saprolite

### Appendix 2: JORC Code, 2012 Edition – Table 1

#### 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 aircore drilling method was employed to obtain bulk drill cuttings at nominal 1-metre (downhole) intervals from surface. All 1-metre samples were collected in plastic bags directly beneath the drilling rig cyclone underflow. The entire 1-metre sample was manually split using either a 3-tier (87.5:12.5 split) or single tier (50:50 split) riffle splitter or a combination thereof to facilitate the mass reduction of a laboratory assay split. Compositing of the laboratory sample split was performed on a geological basis. Mineralised (>=3% v/v visual) laboratory splits of 1-metre intervals from surface to the top of the saprolite zone were not composited whereas mineralised splits of the underlying saprolite and saprock intervals were composited nominally at 2-metres. Unmineralised (=<3% v/v visual), laboratory splits of 4-metre intervals from top of hole to bottom of hole were composited. Laboratory splits were submitted Intertek Perth for assay sample preparation. Total Graphitic Carbon (TGC) analysis of all assay pulps samples was undertaken by Intertek Perth.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Drilling and sampling activities were supervised by a suitably qualified Company geologist who was present at the drill rig at all times. All bulk 1-metre drill samples were geologically logged by the geologist at the drill site. All 1-metre downhole drill samples collected in plastic bags from directly beneath the cyclone underflow were individually weighed and moisture content was qualitatively logged prior to further splitting and sampling. All mass reduction (field and laboratory splitting) of samples were performed within Gy's Sampling Nomogram limits relevant to this style of mineralisation. Field duplicate splits were undertaken nominally every 20 <sup>th</sup> sample to quantify sampling and analytical error. A program of field replicate splitting of selected (~5%) mineralised intervals was completed at the conclusion of the drill program.
	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.	Flake graphite content is visually estimated as volume % (% v/v) of each 1-metre bulk drill samples during geological logging by Company geologist. A nominal lower cut-off of 5% TGC assay has been applied to define zones of 'mineralisation'.

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Criteria	JORC Code explanation	Commentary
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.).	Conventional blade bit aircore drilling was employed to obtain all drill cuttings from surface utilising two rigs during this drill program. Drilling with these rigs was completed using standard 4-inch diameter/3m length drill rods equipped with inner tubes. Drilling was performed with standard face discharge aircore blade bits. The nominal drill hole diameter is 107mm.
Drill Sample Recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	All 1-metre downhole drill samples collected in plastic bags from directly beneath the cyclone underflow were individually weighed and moisture content (dry/damp/moist/wet/saturated) recorded prior to further splitting and sampling. The outside diameter of the drill bit cutting face was measured and recorded by the driller prior to the commencement of each drill hole. Each 1-metre sample interval was separately geologically logged using standard Company project specific logging codes. Logging of weathering and lithology along with drill hole diameter, recovered sample weight, moisture content and dry bulk density measurements of PQ diamond core allow the theoretical sample recovery to be calculated. Analysis of actual sample recoveries indicate an average recovery of greater than 75% for mineralised intervals.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	Drill bits (face discharge) used were appropriate for the type of formation to maximise amount of drill cutting recovered. Drill bits were replaced where excessive wearing of the tungsten cutting teeth had occurred. A number of the 2016 PQ diamond core holes were twinned by aircore holes to assess the representivity of drill samples.
	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.	Twin hole comparison of aircore vs hand auger and diamond core drill hole visually estimated grades indicates that no sample bias exists. There does not appear to be any relationship between aircore sample recovery and TGC % v/v grade.
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.	All drill holes were geologically logged by a suitably trained Company geologist using standard Company code system. Relevant data for each individual 1-metre sample for aircore or for each geological interval for diamond was initially recorded using a standard A4 paper template and later digitally entered into customised Company MS Excel spreadsheets designed with fully functional validation. Excel files are checked and loaded to MS Access by the Database Administrator. Upon loading into the Access database further validation is performed. In addition, all core is photographed wet and dry for future reference.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. The total length and percentage of the	This information is of a sufficient level of detail to support appropriate Mineral Resource estimation. Logging is both qualitative and quantitative. Geological logging includes but is not limited to lithological features, volumetric visual estimates of graphite content and flake characteristics. 100% of drill hole sample intervals have been geologically logged.
Sub-sampling	relevant intersection logged If core, whether cut or sawn and whether	No core was drilled during this program
techniques	quarter, half or all core taken.	
and sample preparation	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	The entire 1-metre sample was manually split using either a 3-tier (87.5:12.5 split) or single tier (50:50 split) riffle splitter or a combination thereof to facilitate the mass reduction of a laboratory assay split. Compositing of the laboratory sample split was performed on a geological basis. Mineralised (>=3% v/v visual) laboratory splits of 1-metre intervals from surface to the top of the saprolite zone were not composited whereas mineralised splits of the underlying saprolite and saprock intervals were composited nominally at 2-metres. Unmineralised (=<3% v/v visual), laboratory splits of 4-metre intervals from top of hole to bottom of hole were composited. All wet samples were removed from the drill site without splitting and relocated to the Company's premises in Lilongwe. The wet samples were transferred into large metal trays and sun dried. Samples were subsequently hand pulverised and thoroughly homogenised prior to splitting 50:50 with a single tier riffle splitter. One of the off-splits was submitted to the laboratory for assay. All rejects splits (i.e. the material not sent for assaying) of each individual 1-metre interval were returned to original sample bag, cable tied and placed in storage for future reference.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	Sample preparation is conducted at either Intertek in Perth or Johannesburg. The entire submitted sample (=< ~3kg) is pulverised to 85% -75µm in a LM5. Approximately 100g pulp is collected and sent to Intertek- Genalysis Perth for chemical analysis. All sampling was carefully supervised. Ticket books were used with pre-numbered tickets placed in the laboratory sample bag and double checked against the sample register. Subsequent to splitting an aluminium tag inscribed with hole id/sample interval was placed inside the bulk 1-metre sample bag. Field QC procedures involve the use of certified reference material assay standards, blanks, duplicates, replicates for company QC measures, and laboratory standards, replicate assaying and barren washes for laboratory QC measures. The insertion rate of each of these averaged better than 1 in 20.
	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.	A program of field replicate splitting of selected (5%) mineralised intervals was completed at the conclusion of the drill program. In addition, a number of air core holes have been drilled to "twin" diamond holes, to assess the representivity of the air drilling. The results of these programs will be assessed when results are received.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	All mass reduction of aircore drill samples undertaken during field sampling and laboratory sample preparation were guided by standard sampling nomograms and fall within Gy's safety limits for the type of mineralisation sampled.

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Criteria	JORC Code explanation	Commentary		
Quality of	The nature, quality and appropriateness of	The assaying and laboratory procedures are considered to be appropriate for reporting graphite		
assay data	the assaying and laboratory procedures used	mineralisation, according to industry best practice.		
and	and whether the technique is considered	Each entire sample was pulverised to 85% -75µm. Approximately 100g pulp is collected for analysis at		
laboratory				
tests		A sample of 0.2g is removed from the 100-gram pulp, first digested in HCl to remove carbon attributed to carbonate, and is then heated to 450°C to remove any organic carbon. An Eltra CS-2000 induction furnace		
		infra-red CS analyser is then used to determine the remaining carbon which is reported as Total Graphitic		
		Carbon (TGC) as a percentage.		
	For geophysical tools, spectrometers,	No non-laboratory devices were used for chemical analysis.		
	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.			
	Nature of quality control procedures adopted	Field QC procedures involve the use of certified reference material assay standards, blanks, duplicates and		
	(e.g. standards, blanks, duplicate, external	replicates for company QC measures, and laboratory standards, replicate assaying and barren washes for		
	laboratory checks) and whether acceptable	laboratory QC measures. The insertion rate of each of these averaged better than 1 in 20.		
	levels of accuracy (i.e. lack of bias) and precision have been established.			
Verification	The verification of significant intersections by	Significant mineralisation intersections were verified by alternative company personnel. An independent		
of sampling &	either independent or alternative company	resource consultant conducted a site visit during December 2016 during the aircore drilling program. All		
assaying	personnel.	drilling and sampling procedures were observed by the consultant during the site visit. These procedures		
, 3	, -	remained in use for this drilling program.		
	The use of twinned holes.	Several of the 2016 PQ diamond core holes were twinned by aircore holes to assess sampling		
		representivity.		
	Documentation of primary data, data entry	All data is initially collected on paper logging sheets and codified to the Company's templates. This data		
	procedures, data verification, data storage	was hand entered to spreadsheets and validated by Company geologists. This data was then imported to a		
	(physical and electronic) protocols.	Microsoft Access Database then validated automatically and manually.		
		Assay data is provided as .csv files from the laboratory and loaded into the project specific drill hole		
	Discuss any adjustment to assay data.	database. Spot checks are made against the laboratory certificates. No adjustments have been made to assay data.		
Location of	Accuracy and quality of surveys used to			
data points	locate drill holes (collar and down-hole	Collar points were set out using the Company's R2 Rover DGPS (accuracy 0.04m x/y), and upon completion of drilling all collars were picked-up again using the same survey tool. The accuracy of R2 Rover unit is		
uutu points	surveys), trenches, mine workings and other	quoted to be 0.04m x/y and 0.09m z.		
	locations used in Mineral Resource	Down-hole surveying was undertaken on selected holes to determine drill hole deviation. Surveys were		
	estimation.	carried out using a Reflex Ez-Trak multi-shot survey tool at nominal 30m intervals down hole on selected		
		holes was used to show that significant deviation does not occur over the relatively short length of the		
		aircore holes. As such drill hole deviation is not considered material throughout the program.		
	Specification of the grid system used.	WGS84 (GRS80) UTM Zone 36 South		
	Quality and adequacy of topographic control.	The Company's DGPS survey tool has sub 0.1m accuracy in the X, Y and Z planes. This is considered		
		sufficiently accurate for the purposes of topographic control. In addition, the Company has installed		
		several independently surveyed control pegs and undertakes QC surveys on these points before every		
		survey program. Given the low topographic relief of the area it is believed that this represents high quality control.		
		Previous checking of Hand Auger holes with the Shuttle Radar Topographic Mission (SRTM) 1-arc second		
		digital elevation data has shown that the Leica GPS System produces consistently accurate results.		
Data spacing	Data spacing for reporting of Exploration	Aircore and diamond core drill holes occur along east-west sections spaced at between 100-400m north-		
& distribution	Results.	south between 8,434,400mN to 8,437,800mN. Spacing along drill lines generally ranges between 15m and		
		40m.		
	Whether the data spacing and distribution is	The Company's independent resource consultants completed a Mineral Resource Estimate (MRE) for		
	sufficient to establish the degree of	Malingunde in 2017 following the completion of the 2016 drilling program. The Company expects to		
	geological and grade continuity appropriate	update the MRE for Malingunde once all results from the 2017 program have been received. Such an		
	for the Mineral Resource and Ore Reserve	update may include upgrading of the JORC resource category in a number of areas of the deposit.		
	estimation procedure(s) and classifications			
	applied.	No comple compositing has accurred		
	Whether sample compositing has been applied.	No sample compositing has occurred.		
Orientation	applied. Whether the orientation of sampling achieves	No bias attributable to orientation of sampling upgrading of results has been identified.		
of data in	unbiased sampling of possible structures and	to sub attributable to orientation of sampling approximg of results has been identified.		
relation to	the extent to which this is known considering			
geological	the deposit type			
structure	If the relationship between the drilling	No bias attributable to orientation of sampling upgrading of results has been identified. Flake graphite		
	orientation and the orientation of key	mineralisation is conformable with the main primary layering of the gneissic and schistose host lithologies.		
	mineralised structures is considered to have	Drill hole inclination of -60 degrees are generally near orthogonal to the interpreted regional dip of the		
	introduced a sampling bias, this should be	host units and dominant foliation.		
	assessed and reported if material.			
Sample	The measures taken to ensure sample	Samples are securely stored at the Company's compound in Lilongwe. Chain of custody is maintained from		
security	security	time of sampling in the field until sample is dispatched to the laboratory.		
Audits or	The results of any audits or reviews of sampling techniques and data	It is considered by the Company that industry best practice methods have been employed at all stages of the exploration.		
reviews				

## Section 2 Reporting of Exploration Results

Criteria		JORC Code explanation	Commentary
Mine	eral	Type, reference name/number, location and	The Company owns 100% of 3 Exclusive Prospecting Licences (EPLs) in Malawi. EPL0355 renewed in 2017
tenem	ent &	ownership including agreements or material	for 2 years, EPL0372 renewed in 2016 for 2 years and EPL0413 renewed in 2017 for 2 years. EPLs 0372 and

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Criteria	JORC Code explanation	Commentary		
land tenure status	issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environment settings.	0413 are renewable for two additional periods of 2 years each upon expiry. EPL0355 is renewable at ministerial discretion.		
	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 tenements are in good standing and no known impediments to exploration or mining exist.		
Exploration done by other parties	Acknowledgement and appraisal of exploration by other parties.	No other parties were involved in exploration.		
Geology	Deposit type, geological setting and style of mineralisation	The graphite mineralisation occurs as multiple bands of graphite gneisses, hosted within a broader Proterozoic paragneiss package. In the Malingunde and Lifidzi areas specifically, a deep tropical weathering profile is preserved, resulting in significant vertical thicknesses from near surface of saprolite-hosted graphite mineralisation.		
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 northings 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; and hole length	Refer to Tables A and B in Appendix.		
	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	Not applicable, no information has been excluded.		
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.	All sample assays contribute to significant intercepts, while adhering to a minimum total significant intercept grade of >=5%. For simplification of reporting following positive metallurgical results in the treatment of pedolith material, all material above the saprolite-saprock boundary is considered as saprolite during generation of significant intercepts.		
	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.	Significant intercepts were calculated using an outer (edge) sample lower cut-off grade of >=5% TGC, minimum intercept width of 3m, and a maximum of 6m internal dilution where the final intercept averages >=5% TGC. Substantial higher grade zones are reported as separate "including" intercepts within Table B.		
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalent values are used in this report.		
	These relationships are particularly important in the reporting of Exploration Results.	Preliminary interpretation of mineralised zones in aircore holes supported by DD (2016) orientated core measurements suggests that mineralised zones are shallow-moderate east dipping.		
Relationship between mineralisation widths & intercept	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	Flake graphite mineralisation is conformable with the main primary layering of the gneissic and schistose host lithologies. Drill hole inclination of -60 degrees are generally near orthogonal to the regional dip of the host units and dominant foliation and hence specific drill hole intercepts for -60 degree holes may only approximate true width. The averaged strike of mineralised zones is approximately 160° grid whereas all -60 inclined aircore holes were orientated at grid east.		
lengths	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'.	Not Applicable, refer to explanation directly above.		
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 the drill collar locations and appropriate sectional views.	See Figures 1 and 2 within the main text of this report.		
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.	Representative reporting of low and high-grades has been effected within this report.		
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,	No additional meaningful and material exploration data has been excluded from this report that has not previously been reported to the ASX.		



## 17 January 2018



Criteria	JORC Code explanation	Commentary
	geotechnical and rock characteristics;	
	potential deleterious or contaminating	
	substances.	
	The nature and scale of planned further work	The next phase of exploration is to complete aircore drilling on regional saprolite targets identified through
	(e.g. test for lateral extensions or depth extensions or large-scale step-out drilling).	hand auger drilling.
Further work	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	See Figure 2 within the main text of this report.

