

# **ASX** ANNOUNCEMENT

# 16 September 2015

LAMBOO RESOURCES Limited ABN 27 099 098 192

ASX: LMB

#### CORPORATE OFFICE

Level 16, 344 Queen Street Brisbane QLD 4000

#### **OPERATIONS OFFICE**

Level 1, 5 Kingscote Street Kewdale WA 6105 Telephone: +61 427 349 451

## CONTACT

Tony Cormack CEO / Head of Operations tony@lambooresources.com 0427 349 451

Ken Banks Investor Relations ken@lambooresources.com 0402 079 999

## DIAMOND CORE ASSAYS AT TARGET 6 CONFIRM BROAD INTERSECTIONS OF HIGH QUALITY FLAKE GRAPHITE

Lamboo Resources Limited ("Lamboo") is pleased to announce the first batch of assay results from Target 6 at its 100% owned McIntosh Flake Graphite Project in the East Kimberley, Western Australia.

#### **HIGHLIGHTS:**

Diamond core assay results from the first 6 holes returned from Target 6 highlight broad intersections of commercially viable flake graphite, significant results include:

T6GDD168: 59m @ 4.7% TGC from 44m, including 6m @ 9.8% TGC from 78m & 12m @ 7.1% TGC from 132m

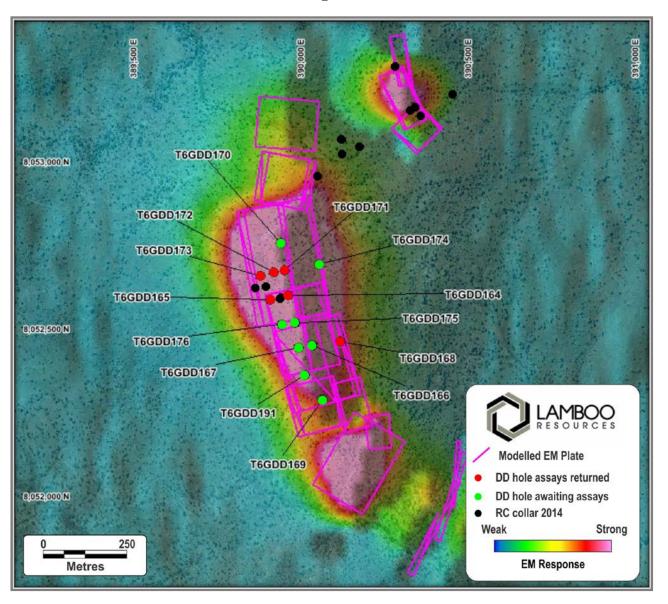
<u>T6GDD164:</u> 44m @ 4.4% TGC from 47m, including 7m @ 7.1% TGC from 47m

These diamond core assays add to T6GRC159 previously released, 72m @ 4.7% TGC including 15m @ 9.3% TGC and 3m @ 16.4% TGC

- > Assays from further 8 holes drilled at Target 6 due in the coming weeks
- These results, plus pending assays for remaining holes, are expected to contribute significant tonnage towards a maiden resource at Target 6 expected in Q4 2015. The Target 6 resource to add critical mass to current resource at Target 1
- Target 6 assays compliment the excellent preliminary metallurgical results reported on the 17<sup>th</sup> August 2015 which showed simple flotation and gravity methods could produce a commercial grade flake graphite concentrate of >94% TGC combined with extremely high recoveries
- Significant percentage of Large to Jumbo flake at Target 6
- Further metallurgical test work results on bulk samples from Target 6 due to commence in the coming weeks

"Our strategy of focussing on the significant Targets identified in the VTEM survey is bearing fruit with Target 6 yielding both quantity and quality of high purity flake graphite. Assays results from Target 4 are expected in the coming weeks and we anticipate these will further grow this inventory. Having a larger, higher quality resource base gives Lamboo greater scope for commerciality" commented Lamboo's CEO/Head of Operations, Tony Cormack.





-2-

Figure 1: Target 6 plan view of diamond drill holes completed to date

To date 14 diamond drill holes for a total of 1,769 metres have been completed at the Target 6 prospect, in addition to the 12 reverse circulation drill holes completed during 2014 (see Figure 1). Drilling has identified broad intersections of commercially viable flake graphite within a high grade metamorphic schist. Drilling has also confirmed the structure to be a regional scale fold hinge with flake graphite outcropping at the surface.

Metallurgical test work conducted on diamond core from Target 6 has identified excellent liberation characteristics and a good percentage of large to jumbo flake. First pass flotation, gravity and magnetic separation test work on Target 6 diamond core also produced a flake graphite concentrate of >94%, along with high recoveries. The initial metallurgical test work has also confirmed that grades in the 4-6% TGC range (known as the 'sweet spot' for flake graphite) exhibit superior metallurgical characteristics, including superior liberation characteristics along with higher concentrate purity when compared to the higher head grades of 16% TGC.



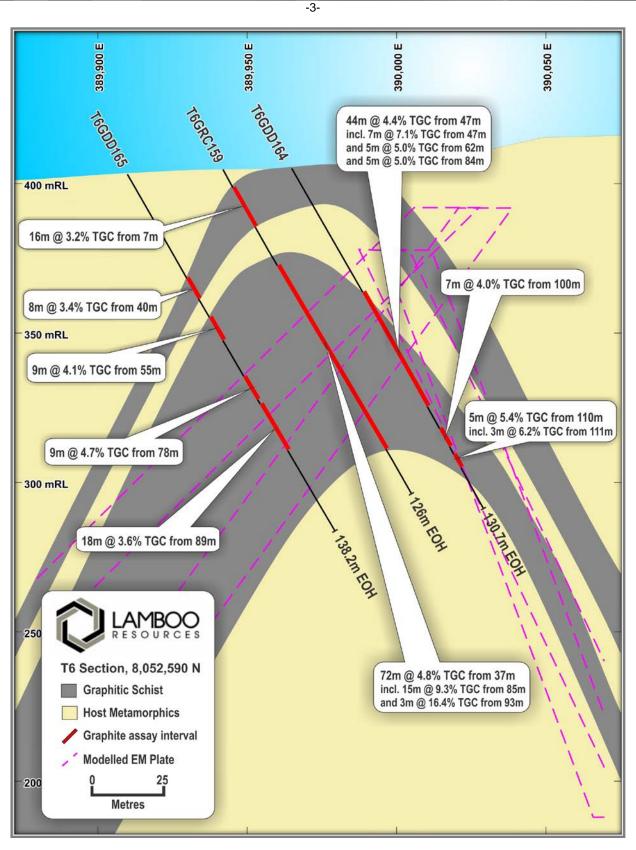
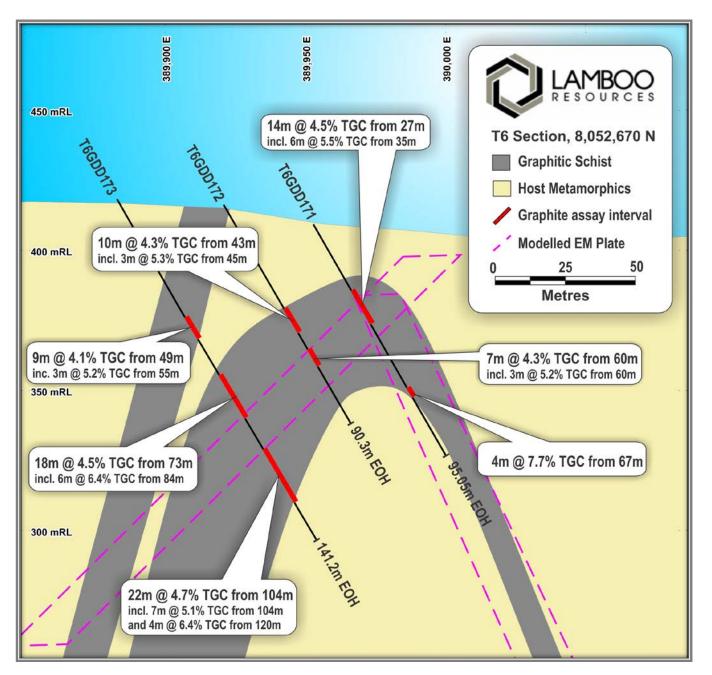


Figure 2: Cross-section at 8,052,590mN showing significant graphite assay intervals and VTEM model plates. RC hole T6GRC159 was completed during the 2014 drilling campaign (refer ASX:LMB Announcement 3<sup>rd</sup> June 2014).

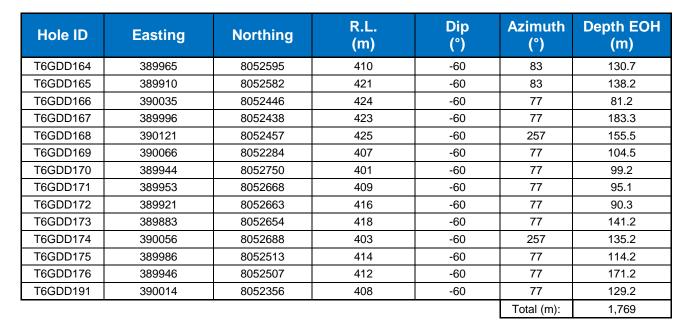




-4-

Figure 3: Cross-section at 8,052,670mN showing significant graphite assay intervals and VTEM model plates

Figures 2 and 3 represent interpreted cross-sections from the Target 6 prospect highlighting the large scale antiform along with significant assay intercepts (see Table 1 and 2) and the VTEM model plates. The fold hinge area at the Target 6 prospect is ideally suited to a low strip ratio open pit operation with the base of the open pit envisaged to be approximately 100 to 150 metres below surface. The Target 6 prospect is also located alongside an existing haul road, 20 kilometres from the Great Northern Highway and 280 kilometres through to the Port of Wyndham making the logistics of the McIntosh project extremely appealing.



-5-

Table 1: Summary of completed diamond drill holes at the Target 6 prospect.

0

Table 2: Significant graphite mineralised intersections from diamond core at the Target 6 prospect.

Hole ID	Depth (From)	Depth (To)	Intersection (m)	Grade (%TGC)
T6GDD164	47	91	44	4.4
T6GDD164	47	54	7	7.1
T6GDD164	62	67	5	5.0
T6GDD164	84	91	7	5.0
T6GDD164	110	115	5	5.4
T6GDD165	47	56	9	4.7
T6GDD165	78	87	9	4.4
T6GDD168	96	155	59	4.7
T6GDD168	110	116	6	5.7
T6GDD168	132	144	12	7.0
T6GDD168	138	144	6	9.8
T6GDD171	27	41	14	4.5
T6GDD171	35	41	6	5.5
T6GDD171	67	71	4	7.7
T6GDD172	43	53	10	4.3
T6GDD172	45	48	3	5.3
T6GDD172	60	63	3	5.2
T6GDD173	73	91	18	4.5
T6GDD173	84	90	6	6.4
T6GDD173	104	126	22	4.7
T6GDD173	104	111	7	5.1
T6GDD173	120	124	4	6.4



## **COMMERCIAL UPDATE**

Given that Lamboo's strategy of upgrading the size and quality of its flake graphite resource is being realised, the company is now focussing all its efforts towards commercialisation of the McIntosh Flake Graphite Project.

-6-

The Board of Lamboo has scheduled meetings with current and potential offtake partners and key end users in the coming months. These meetings are centred on the ability to provide these end users high quality flake graphite diamond core samples, thus allowing the end users to complete test work using their specific processes. The excellent metallurgical results from McIntosh achieved in first pass test work provides the company a great deal of confidence in firming up the existing offtake agreements and also establishing new relationships with other offtake partners.

"It's an exciting time for Lamboo and its shareholders, our strategy of targeting the large scale fold hinges at Targets 4, 5 and 6 is proving to be the right one. We are certainly delivering on this strategy and we are doing it as efficiently and cost effectively as possible. Our focus now shifts to the commercialisation of the McIntosh project with the entire Lamboo team continuing to work extremely hard towards a successful outcome on this front" commented Lamboo's CEO / Head of Operations, Tony Cormack.

## **Tony Cormack**

#### CEO / Head of Operations

#### **Competent Persons Statement**

The information in this report relating to Exploration, Drilling, Assay Results and Geological Data at the McIntosh Project is based on information previously compiled and / or reviewed by Mr. Tony Cormack, Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Lamboo Resources Limited. Mr. Cormack has sufficient experience which is relevant to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Cormack consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.



## **APPENDIX 1**

## JORC Table 1 Assessment

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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Sampling methods- Reverse Circulation (RC) drilling used high pressure air and a sophisticated cyclone with a cone splitter. Sampling was taken as continuous one metre intervals. Diamond drill (DD) core was generally sampled at one metre intervals. Where geology indicated an obvious change, sampling was undertaken so that the one metre samples could be composited. Duplicate samples were taken during RC drilling. RC drilling samples of 3 to 5 kg weight were shipped to the laboratory in plastic bags; samples were pulverized and milled for assay. Diamond core was marked up and
	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	<ul> <li>cut into half and quarter core using a large diamond bladed saw.</li> <li>Industry standard RC and DD methods were used. It is noted that although RC drilling may yield samples sufficient to estimate graphite content (total graphitic carbon, or "TGC"), RC samples are generally considered insufficient to estimate graphite flake size and purity.</li> <li>Diamond core drilling is recommended to twin selected RC holes so as to verify TGC, flake size and purity or liberation characteristics.</li> </ul>
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.).	RC drilling (5 ½" hammer) accounts for majority of the drilling database at Targets 2, 3, 5 and 6 Minor diamond core drilling (NQ) at targets 2 and 3. All diamond core drilling at target 6 is HQ.



Criteria	JORC Code Explanation	Commentary
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	RC split samples were recovered from a cyclone and rig-mounted cone splitter. The sample recovery and physical state were recorded. Sample recovery of the diamond core is recorded on core blocks after each run and recorded in the logging.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	A face sampling hammer is used to reduce contamination at the face. Diamond drilling samples are half and quarter cored, with core sawn using a diamond blade core-saw.
_	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.	RC samples in one pair of twin holes are noted to report lower graphite content than DD core at Target 1, therefore it is suggested that RC samples are biased due to loss of fine material. HQ diamond core drilling has been employed for future drilling.
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 RC chips and diamond core were geologically logged in the field by qualified geologists. Lithological and mineralogical data is recorded for all drill holes using a coding system developed specifically for the Project. Diamond core is geotechnically logged.
		Primary and secondary lithologies are recorded in addition to texture, structure, colour, grain size, alteration type and intensity, estimates of mineral quantities, graphite intensity and sample recovery. The oxidation zone is also recorded and a general lithological description is made of the interval. Logging is qualitative in nature.
-	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	Geological logging is qualitative in nature.
-	The total length and percentage of the relevant intersections logged.	The vast majority of intersections have been geologically logged.
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	Diamond drilling samples are half (metallurgical testing) and quarter core (assaying), with core sawn using a diamond blade core-saw.



Criteria	JORC Code Explanation	Commentary
	<i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i>	1m samples from the RC drilling were submitted to either Actlabs or ALS Laboratories in Perth. The samples were riffle split on a 50:50 basis, with one split pulverised and analysed for Total Graphitic Carbon (TGC), Total Carbon (TC) and Total Sulphur (TS) using a Leco Furnace, and the other split held as in storage.
_	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	Sample preparation techniques represent industry good practice
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	Sampling procedures represent industry good practice.
	Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field	Duplicate assay results exhibit good correlation with the original assays and no consistent bias is evident.
	duplicate/second-half sampling	Limited twin hole drilling has indicated negative bias in the RC graphite results compared to core samples. Diamond core drilling has been engaged.
	Whether sample sizes are appropriate to the grain size of the material being sampled	The sample sizes are considered to be appropriate to the grain size of the material being sampled.
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.	The assaying and laboratory procedures used are appropriate for the material tested.
	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.	VTEM geophysical work was carried out by Geotech Limited with the data validated and processed by reputable consultants.
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	The RC and DD samples that were submitted by Lamboo to the laboratory include a duplicate, washed sand blank and certified standard at approximately every 20th sample submitted. The duplicate and standard samples were statistically analysed as part of the QAQC process and the data and was found to be satisfactory.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	CSA verified several graphite intersections in core and RC chip samples from Targets 1, 5 and 6 during a visit to Lamboo's



Critoria	IOBC Code Explanation	Commonton
Criteria	JORC Code Explanation	Commentary
		Joondalup warehouse during January 2015. Samples from Exploration Targets 5 and 6 have been submitted to a petrographic laboratory for mineralogical examination and estimation of flake size and possible liberation characteristics.
	The use of twinned holes.	Twinned RC and DD core holes were completed on Exploration Targets 2 and 3. An initial comparison of RC and DD twins suggests that the RC method may be under-reporting Total Graphitic Carbon and that this needs addressing in future exploration.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	The Lamboo database is hosted in a SQL backend database, ensuring that data is validated as it is captured and exports are produced regularly. Assay results are merged into the database from the lab certificates limiting transcription or mapping errors from occurring.
	Discuss any adjustment to assay data.	Verification was based on use of duplicates, standards and blanks used. No adjustments to assay data has been made.
Location of data points	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.	Drill hole collars were surveyed by Whelans Surveyors Kununurra using a differential GPS and ground station. Preliminary RC collars were located by handheld Garmin 62S and Garmin 76c Global Positioning System ("GPS") units with a typical ±5 metres accuracy.
	Specification of the grid system used.	The map projection used is the Australian Geodetic MGA 94 Zone 52.
	Quality and adequacy of topographic control.	Adequate for purposes of Exploration Target estimation
Data spacing and distribution	Data spacing for reporting of Exploration Results.	RC drill holes at Targets 2, 3, 5 and 6 are spaced on traverses 80 to 250 m apart.
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral	Not applicable



Criteria	JORC Code Explanation	Commentary
	Resource and Ore Reserve estimation procedure(s) and classifications applied.	
	Whether sample compositing has been applied.	Not applicable
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.	RC drill holes were drilled at near perpendicular to the strike of the graphitic schist horizons. Diamond drill core has been oriented using a Reflex ACE tool (Act II), with $\alpha$ and ( angles measured and positioned using a Kenometer.
	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.	The relationship between the drilling orientation and the orientation of key mineralised structures is not considered to have introduced a sampling bias.
Sample security	The measures taken to ensure sample security.	RC samples were collected from the cone splitter, DD samples were cut using a diamond blade core saw; samples were then placed in calico bags and then placed in self-sealing plastic bags prior to being put into bulka bags. The bulka bags were then transported by road to the laboratory in Perth. The samples were processed and the pulps despatched to Actlabs in Canada or ALS in Brisbane/Adelaide. In this announcement the samples were taken in personal luggage on a commercial plane to Perth. The sample security is considered to be adequate
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Sampling techniques and data have been handled by an independent data management consultancy in Perth, WA. CSA completed an audit of the database and found it to be reliable.

# Table 1 (Section 2) – Reporting of Exploration Results

Criteria	JORC Code Explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	Lamboo Resources Limited holds thirteen (14) granted ELs, two (1) ELAs and one (1) Prospecting Licence within the McIntosh Project area in the East Kimberley, WA. All granted tenements are in good standing and there are no



Criteria	JORC Code Explanation	Commentary
		encumbrances, royalties or impediments except for E80/4733 that is subject to a mill gate net royalty of 1%.
-	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.	There are no known impediments.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The East Kimberley has been largely explored for base metals and diamonds with no active previous exploration for graphite. Graphite had been noted by Gemutz during regional mapping in the Mabel Downs area for the BMR in 1967, by Rugless mapping and RAB drilling in the vicinity of Melon Patch bore, to the east of the Great Northern Highway in 1993 and has been located during nickel exploration by Australian Anglo American Ltd, Panoramic Resources Ltd and Thunderlarra Resources Ltd over the last 20 years.
Geology	Deposit type, geological setting and style of mineralisation.	The McIntosh Project graphite schist horizons occur in the high grade metamorphic terrain of the Halls Creek Mobile Zone of Western Australia. The host stratigraphy is the Tickalara Metamorphics which extend for approximately 130 km along the western side of the major Halls Creek Fault. The metamorphic rocks reach granulite metamorphic facies under conditions of high-temperature and high pressure although the metamorphic grade in the McIntosh Project area appears to be largely upper amphibolite facies with the presence of key minerals such as sillimanite and evidence of original cordierite. Lamboo has identified graphite schist horizons and accompanying aerial EM anomalies over a strike length in excess of 15 km within the granted tenements, with potential for another 35 km strike length of graphite schist in EL applications. The McIntosh target areas contain



Criteria	JORC Code Explanation	Commentary
		graphite and include seven (7) identified exploration target areas – Targets 2, 3, 4, 5, 6, 10 and 11.
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length.	Reported in the body of the announcement. No down hole intercepts have been completed as yet. The announcement only refers to 3, 1m sample assays.
-	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.	Only 3, 1m samples have been reported. No down hole intercept information is available at this time.
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.	Based on a statistical analysis of drill data, lower cut-off grade of 1.9% total graphitic carbon was assumed for the Exploration Target estimates. This is similar to the 2% cut-off applied at the Target 1 Mineral Resource.
-	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.	RC samples were all 1m in length. Diamond core samples will vary between 1m and 2m samples.
-	The assumptions used for any reporting of metal equivalent values should be clearly stated.	Metal equivalents are not reported, as this is an industrial mineral project where the mineral properties define grade (e.g. flake size and purity).
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results.	Mineralised widths at Targets 5 and 6 are estimated to be typically between 5 and 70 metres, compared with RC samples of 1m width. There is a very close relationship between the graphitic schist unit and Total Graphitic Carbon TGC% assays. The presence of graphitic schist is clearly evident in both the RC chips and diamond drill core so that the assay widths



and a		
Criteria	JORC Code Explanation	Commentary
		can be clearly related to the geological logs.
	<i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i>	RC and Diamond core drill holes were drilled at or near perpendicular to the strike of the graphitic schist horizons
-	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').	Not relevant
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Sections illustrating representative graphite intersections at Target 6 have been included in the 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.	Not relevant
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.	The September 2014 VTEM Supermax survey over the McIntosh Flake Graphite Project covered a total of 642 line kilometres and identified a total of 12 high-priority anomalies. Five of these were previously identified by induced polarisation (IP) and historical electromagnetic (EM) techniques and confirmed to be flake graphite schist by geological field mapping, petrographic analysis, rock chip sampling and exploration drilling.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	Initial diamond core drilling has been recommended to twin and verify existing RC holes at Targets 5 and 6. These cores are planned to be assayed for total graphitic carbon and also examined petrographically to assess graphite flake characteristics.
		It is likely that other targets (e.g. 4, 10 and 11) where there is no previous drilling, will be tested by RC drilling.