



METALS *of* AFRICA
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Battery Grade Spherical Graphite – Mozambique

ASX: MTA



Australian Graphite Conference Perth - March 2016

Disclaimer & Competent Person Statement

Statements and material contained in this Presentation, particularly those regarding possible or assumed future performance, resources or potential growth of Metals of Africa Limited, industry growth or other trend projections are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Such forecasts and information are not a guarantee of future performance and involve unknown risk and uncertainties, as well as other factors, many of which are beyond the control of Metals of Africa Limited. Information in this presentation has already been reported to the ASX.

Cautionary Statement

The Company advises that a proportion of the production target referred to in this announcement is based on an inferred mineral resource. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised.

Competent Persons Statement

The information in this report that relates to a Concept Study is based on information compiled by Ms. Cherie Leeden, who is Managing Director of the Company. Ms Leeden is a Member of the Australian Institute of Geoscientists and has the relevant experience in the Technical Assessment and Valuation of Mineral Assets of this level of Pre Development study referred Concept Study. Ms. Cherie Leeden also has sufficient relevant experience in the style of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Ms Leeden consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

The Maiden JORC Graphite Resource at Montepuez Central Project was announced by the Company 16 November 2015 and 8 December 2015 and should be referred with this report. The Maiden JORC Graphite Resource at Balama Central Project was announced by the Company on 21 March 2016 and should be referred with this report. The information pertaining to the Montepuez Central and Balama Mineral Resource is based on information compiled by Mr Robert Dennis who is a Member of Australian Institute of Geoscientists and a full time employee of RungePincokMincarco Limited. Mr Dennis has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Dennis consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Montepuez Central Concept Study is based on a preliminary technical and economic assessment to test the economic viability of the Montepuez Central Mineral Resource with $\pm 40\%$ accuracy. It includes appropriate assessment of realistically assumed mine development, processing and transport operational factors estimated with presently defined graphite product pricing which supports realistically justified progress to a Pre-Feasibility Study. The Concept Study is not a Pre-Feasibility or Feasibility Study as further comprehensive studies are required to achieve this level of economic confidence including Resource to Ore Reserve conversion and further product testwork.

Mineral Resources

The basis of the Study was the Mineral Resource estimate for the Montepuez Project (Buffalo, Lion and Elephant prospects), which contains 61.6Mt at 10.2% TGC for 6.3Mt of contained graphite at a cut-off of 6% TGC. RungePincokMinarco Limited ("RPM") was engaged to prepare the Mineral Resource estimate in 2015. The Mineral Resource underpinning the production target, classified as Indicated and Inferred, was prepared under the supervision of a Competent Person and reported in November and December 2015 in accordance with the requirements in Appendix 5A (the JORC Code 2012 edition). Classification of the Mineral Resource was carried out taking into account the geological understanding of the deposit, quality of the sampling and density data, and drill hole spacing. Metallurgical considerations of flake size distribution, purity of product and petrographic analyses were also given due consideration.

Vast portions of the VTEM anomalism at the Project remain undrilled. There are opportunities to delineate further Mineral Resources parallel to existing trends at Elephant and Buffalo. All prospects are open along strike and down-dip. Extensional drilling is likely to add tonnes to the Mineral Resource, specifically to the south of known mineralisation at Elephant and Buffalo.

Corporate Overview

Cherie Leeden - BSc Hons - Managing Director

Geologist, successful explorer and developer of mineral resources
Extensive experience working for majors/juniors
Predominantly African based and focussed for past 5 years

Gilbert George – Mec - Non Executive Chairman

Experienced public company director
>30 years international business experience
Corporate funding experience in mining industry

Brett Smith – BSc Hons - Non Executive Director

Geologist
25 years experience in exploration and resource definition
Experienced public company director

ASX: MTA

Shares on Issue: 211M

Market Cap: \$12.7M

Cash in bank: \$1.5M (1)

Share Price: \$0.06(2)

Trading Range (12 weeks): A\$0.042- \$0.060

Options on issue

57.8M listed (15 cents, Jan 2017)

8.5M unlisted (various)

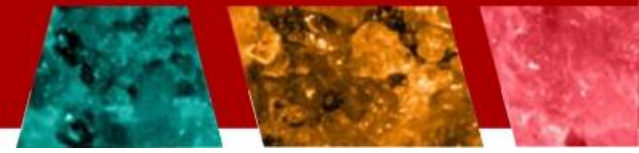
Shareholder Profile

Top 20	47% (inc. board 4%)
Retail Shareholders	53%

(1) as at 31 December 2015

(2) as of 21 March 2016

The Defining Attributes for MTA



Resource Quality Demonstrated

Projects within Mozambique's Cabo Delgado graphite province

Definition of Resources: Predominantly Large/Jumbo flake, high TGC confirmed

Spherical graphite quality, ideally suited for “green energy” EV battery applications

Positive Concept Study Metrics

Compelling concept study outcomes predicted

Optionality, scalability and scope for capital expenditure refinements

Robust Operating Landscape - Mozambique

Logistics, power, water, mining code, corporate taxes and regulations, investment

Clear Development Pathway

Resources defined, PFS underway

Graphite Offtake discussions proceeding

The Spherical Graphite Market Dynamics and Opportunity

Spherical graphite can be produced from natural flake graphite at a fraction of the price of synthetically derived spherical graphite (currently the dominant source for LiO batteries)

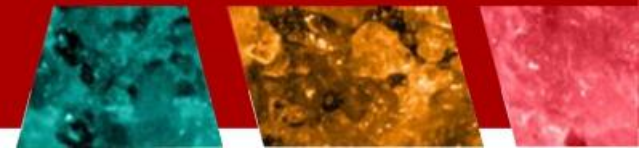


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Graphite Resource Quality



Two Current Graphite Resources



Mozambique - Cabo Delgado Graphite Province

“Widely recognised and the richest graphite province in Mozambique”

“The Mozambique mobile belt host the largest graphite deposits in the world; it extends into both Mozambique and Tanzania and is geologically constrained”

1. Montepuez Central Project (indicated and inferred)

61.6 Mt @ 10.3% TGC and 0.26% V_2O_5

- 6.3 Mt of contained graphite at a cut-off of 6% TGC

Resource remains open along strike and at depth

2. Balama Central Project (indicated and inferred)

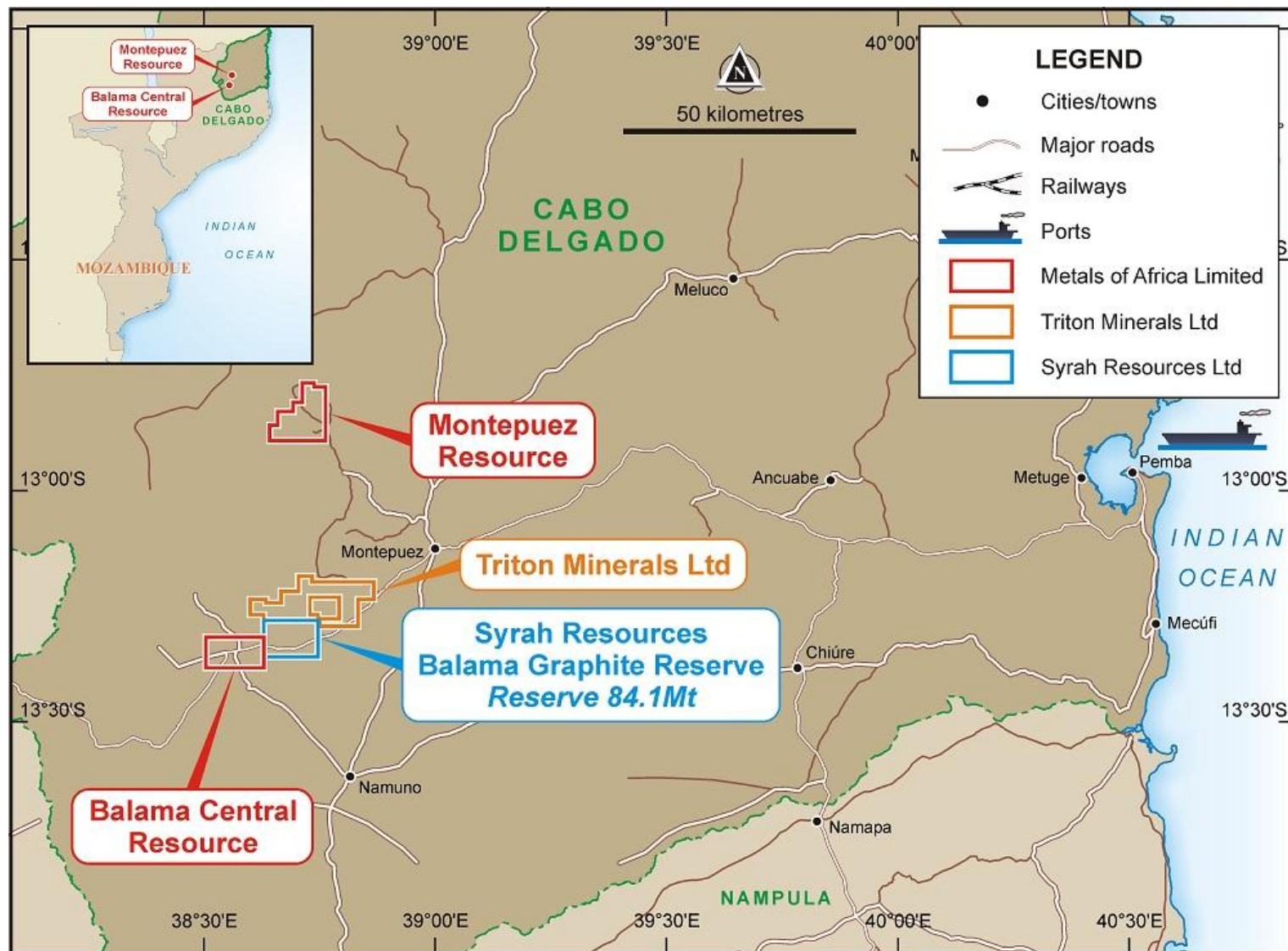
16.3Mt at 10.4% TGC and 0.21% V_2O_5

- 1.7Mt of contained graphite at a 6% TGC cut-off

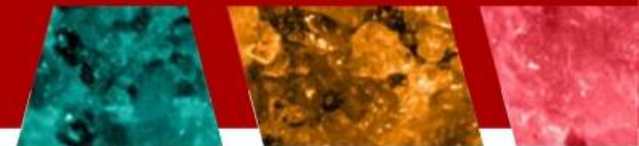
Resource is open along strike and at depth and was defined via a <4 week drill program!

Exploration Target of 43-78Mt at 9-13% TGC

Project Location and Recognised Neighbours



Montepuez Project - Overview



61.6 Mt @ 10.3% TGC and 0.26% V₂O₅

– **6.3 Mt of contained graphite** at a cut-off of 6% TGC

Resource is open along strike and at depth - only 5% of prospective geology tested

Montepuez Graphite Project

Maiden Mineral Resource Estimate (6% TGC Cut-off)

Class	Tonnes	TGC	V ₂ O ₅	Cont. Graphite	Cont. V ₂ O ₅
	Mt	%	%	Mt	Kt
Indicated	27.6	10.4	0.23	2.9	62
Inferred	34.1	10.2	0.30	3.5	101
Total	61.6	10.3	0.26	6.3	163

Note:

1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.

2. Flake sizes for the Mineral Resource are tabulated in the [Appendix to the presentation](#)

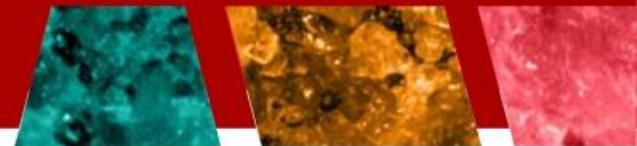
3. The Statement of Estimates of Mineral Resources has been compiled under the supervision of Mr. Robert Dennis who is a full-time employee of RPM and a Member of the AusIMM and AIG. Mr. Dennis has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code (2012).

4. All Mineral Resources figures reported in the table above represent estimates at 12th November, 2015. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.

5. Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).

6. TGC = total graphitic carbon.

Balama Central Project



16.3Mt at 10.4% TGC and 0.21% V₂O₅

– **1.7Mt of contained graphite** at a 6% TGC cut-off

Resource is open along strike and at depth

Exploration Target of **43-78Mt at 9-13% TGC**

Balama Central Graphite Project

Maiden Mineral Resource Estimate (6% TGC Cut-off)

Class	Tonnes	TGC	V ₂ O ₅	Cont. Graphite	Cont. V ₂ O ₅
	Mt	%	%	Mt	Kt
Indicated	8.9	9.3	0.16	0.84	14
Inferred	7.3	11.8	0.27	0.86	20
Total	16.3	10.4	0.21	1.7	34

Note:

1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.

2. Flake sizes for the Mineral Resource are tabulated in the Appendix to the presentation

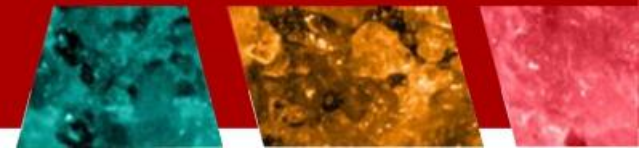
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Largest Flake Graphite In Mozambique



Classification	Sieve Size (µm)	MTA Balama (%)	MTA Montepuez (%)	SYR (%)	Sieve Size (µm)	TON (%)
Jumbo	>300	33.8	32.7	8.5	>400	7.3
Large	180-300	19.1	23.5	12	212-400	15.9
Medium	150-180	5.7	7.5	11.5	106-212	36
Fine	75-150	16.6	20.7	22.5	75-106	17.1
Very Fine/Amorphous	<75	24.9	15.5	45.5	<75	23.7

Flake size is critical to a viable Project

Natural Graphite pricing is based on flake size

Large-jumbo flake commands premium prices and generally equates to lower impurities/higher recovery

Montepuez and Balama boasts the highest proportion of large-jumbo flake graphite in Mozambique

More than half the Montepuez deposit is >large – jumbo size flakes

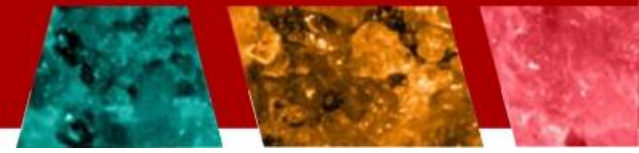


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Positive Concept Study Metrics



Montepuez Concept Study Highlights



Conceptual mine plan & economic analysis completed to +/- 40% accuracy by RungePincockMinarco

Pre-Feasibility Studies (PFS) now underway

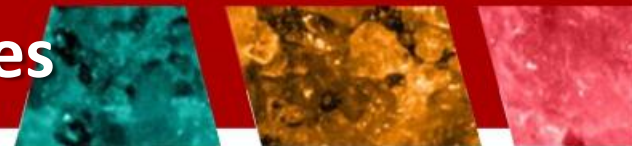
Confirmation Montepuez boasts the richest large & jumbo flake graphite deposit in Mozambique

Concept Study highlights include:

- Low 2.2:1 strip ratio (will be further improved on in optimisation in PFS)
- Production schedule completed at plant feed rate of 1.2 Mtpa at average grade of 10% TGC for first 30 years
- Proposed production rate of 100,000 tonnes per annum of product over a proposed 60 year mine life
- Estimated capital cost of US\$166M + 20% contingency (including spherical graphite plant construction)⁽¹⁾
- Very low OPEX implying significant margins achievable
- Simple, open pit mining operation
- Favourable deposit characteristics to fast track to mining
- Concept Study has confirmed support for the Project's potential development in order to proceed to a Pre-feasibility Study (PFS).

Note 1. The Company has provided key inputs to CAPEX

Summary of Montepuez Project Features



Resource	JORC Resource: 62Mt at 10.3% TGC
Mining Method	Simple open pit operations with low strip ratio: operations will commence as free-dig mining using conventional truck and shovel mining
Processing Method	Conventional process including crushing, grinding, flotation, filtration, drying, screening and bagging in Mozambique. 50% of concentrate shipped to USA for spheroidization and coating (for use in Li-ion batteries as anode material)
Processing Rate	1.2 million tonnes per annum
Products	25,000 tpa Coated Spheroidal graphite 25,000 tpa Carburiser product 20,000 tpa Jumbo-Super Jumbo flake 30,000 tpa Large flake
Production	100,000 tonnes of graphite product per annum
Operating costs (1)	FLAKE GRAPHITE ~US\$300 per product tonne (FOB from the Port of Pemba) COATED SPHERICAL GRAPHITE ~US\$3500 per product tonne
Life of mine (LOM)	60 years

(1) Excludes royalties and taxes (circa 35%)

Concept Study confirms attractive economics

Capital expenditure (US\$M)

Processing plant	35
Site infrastructure ⁽¹⁾	25.7
Owner's costs	15.5
Power facility	10
CAPEX Subtotal	86.2
Contingency – 20%	33.24
Spherical Graphite Plant (USA) - OPTIONAL	80
CAPEX TOTAL (including spherical plant)	199.4

Operational metrics ⁽³⁾

Operational period	Years	60
Plant feed rate	tpa	1.2 M
Average strip ratio (LOM)	Ratio	2.2:1
Average head grade (LOM)	%	8.5%TGC
Average recovery (LOM) (target)	%	95%
Average production (LOM)	tpa	100,000

Coated spherical operating costs (US\$/t)

Flake concentrate FOB (MOZ)	300
Spheroidization & coating (USA)	3200
TOTAL: Coated Spherical Graphite OPEX	3500

Flake concentrate operating costs (US\$/t)

Mining	59
Processing	90
Transport ⁽²⁾	105
Administration and Sustaining Capital	46
TOTAL: Flake Graphite OPEX	300

(1) Inclusive of haul roads, ROM pad, camp and tailings storage facility

(2) Inclusive of trucking costs to the Port of Pemba

(3) The Concept study includes Inferred Resources (55%) and Indicated Resources (45%). Please refer Cautionary Statements on page 2.

(4) The Company has provided key inputs to CAPEX

The Benchmark Established in Mozambique



SYRAH
RESOURCES



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Flagship Project	Balama (Mozambique)	Montepuez and Balama (Mozambique)
Drill assays	287.5m at 10.1% TGC	169.1m at 10.8% TGC
Dominant Flake Size	Very Fine to Fine	Large to Jumbo/ Super Jumbo
Resource	1.15Bt at 10.2% TGC	Montepuez: 61.6Mt at 10.3% TGC Balama: 16.3Mt at 10.4%TGC
Status	Development	Feasibility in progress
Off-take	Chalieco Marubeni	In discussions
Current Share Price	\$4.07	\$0.060
Market Cap	\$941.3m	\$12.7m



Share prices as at 18 March 2016

A resource in excess of 50 MT is unnecessary to support a world class graphite mine, and excessive to production requirements

Low OPEX and a quality graphite is key – MTA's project have these credentials

MTA's larger flake size equates to high purity of final product & better margins when compared to smaller flake size

Under these parameters MTA represents a cheap entry into a world class graphite province and graphite resource



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The Operating Landscape - Mozambique



Mozambique - Snapshot

OVERVIEW

Stable multi-party democracy since 1994

Population - 27 million

ECONOMY

One of Africa's five fastest growing economies and consistent Growth expected to remain at 7-9%p/a; next 5 years

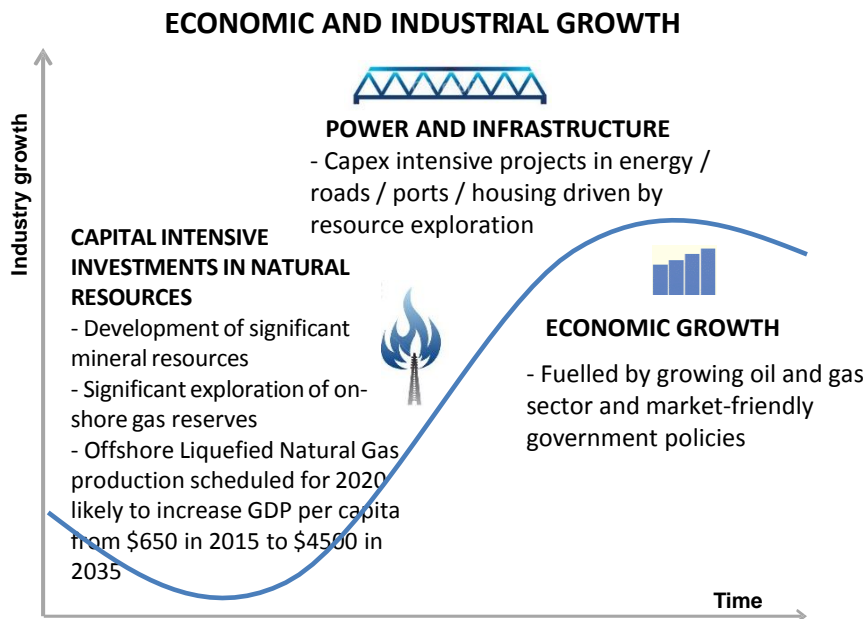
STRATEGIC POSITION

Access to markets – China, India as well as Europe
Strategic access to markets in SADC - 270m people

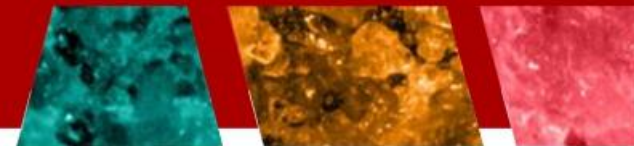
RESOURCES

Energy - Hydro, Gas and Thermal

Minerals - Coal, Gold, Graphite, Heavy Sands,
Rare Earths, Precious Stones



Mozambican - Foreign Direct Investment



Foreign Direct Investment – 2009-2014 \$31bn
(\$4.9bn in 2014)

\$1.5bn non-concessional loans for infrastructure in process

Credit Rating (Fitch) B-; Outlook stable

Corporate Tax - 32%

Investment Incentives / protection

- Legal protection for investors (incl. property/ intellectual rights)
- No restrictions on loans/interest payments abroad
- Multilateral Investment Guarantee Agency (MIGA) plus Overseas Private Investment Corporation (OPIC) insurance on investment risk
- Tax incentives for projects (exemption from payment of customs duties and VAT and tax credit for 5 fiscal years)

Sovereign risk: Near-term liquidity challenges due to increase of public debt to 55% of GDP in 2014 and fall in mineral prices, however strong growth is anticipated over the long term to support sovereign risk rating

Regulatory: Mozambique's mining law revised in 2014 guaranteeing security of tenure and allowing companies to repatriate profits

Further pro-business reforms including deregulation and decentralisation of political power anticipated

MEGA PROJECTS (1998 – 2013)

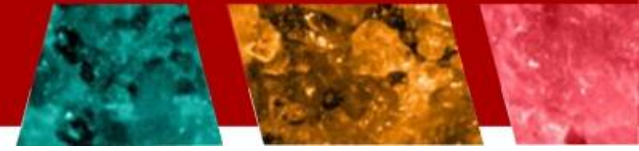
Company	Investment	Project
BHP Billiton (1998)	\$2.2 bn	Aluminium Smelter (1-3)
SASOL (2002)	\$1 bn	Pande and Temane (PSA + PPA) On shore gas
KENMARE (2004)	\$330 m	Titanium and Zircon
Vale (2007)	USD 4.4 bn	Moatize Coal mine and related Infrastructure
Anadarko + ENI (2009)	\$40 bn	Areas 1 + 4 – LNG
SASOL (2012)	\$800 m	Phase 4 – Off shore gas
JSPL (2013)	\$300 m	Chirodzi Coal mine
Gigawatt Mozambique (2013)	\$235 m	Gas fired power station

Project Locations, Logistics and resulting cost benefits

- Located in the world class graphite province of Cabo Delgado, Mozambique
- Province hosts more graphite than the rest of the world's graphite resources combined
- The Projects are located about 260km west of the port city of Pemba
- 200km of the 260km is on a well maintained sealed bitumen highway
- There are no communities or agriculture located on the Montepuez Project license
- **Concept Study predicts very low OPEX compared to the rest of the world – due to a combination of favourable logistics and high grade/quality**



Port Pemba as a potential exit point



- Existing port facility can accommodate potential concentrate production of 100,000 tpa ⁽¹⁾
- Existing port accommodates Handymax ships
- Stockpile facility near Port has been identified
- New, expanded multi-user port facility located a few kilometres from existing port currently under construction
- Mozambique boasts the deepest ports in East Africa



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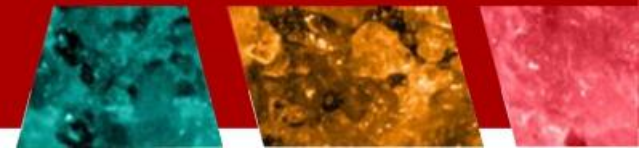


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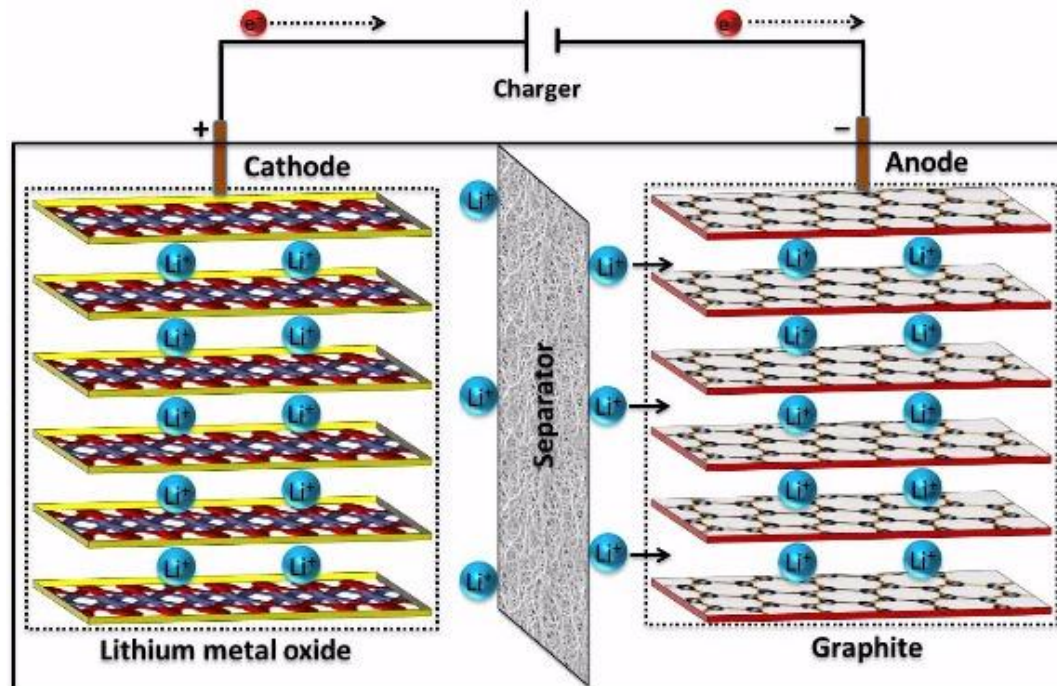
The Spherical Graphite Market Dynamics and Opportunity



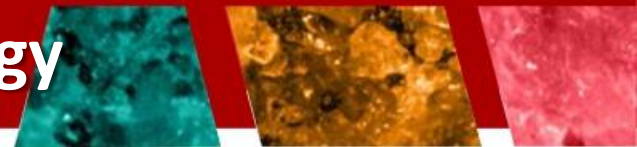
Spherical Graphite – Critical for LiB



- The Li-ion battery (LiB) positive terminal (cathode) is composed of Lithium and other metals. The Li-ion battery negative terminal (anode) is composed of graphite
- MTA is focused on developing flake graphite to anode ready material **spherical graphite**
- There is about 4x more graphite than lithium used to make each Lithium Ion battery
- Low OPEX and high purity >large flake graphite supply is very limited
- Green technologies are driving graphite demand
- Graphite is also a key component of vanadium redox battery technology (large scale energy storage)

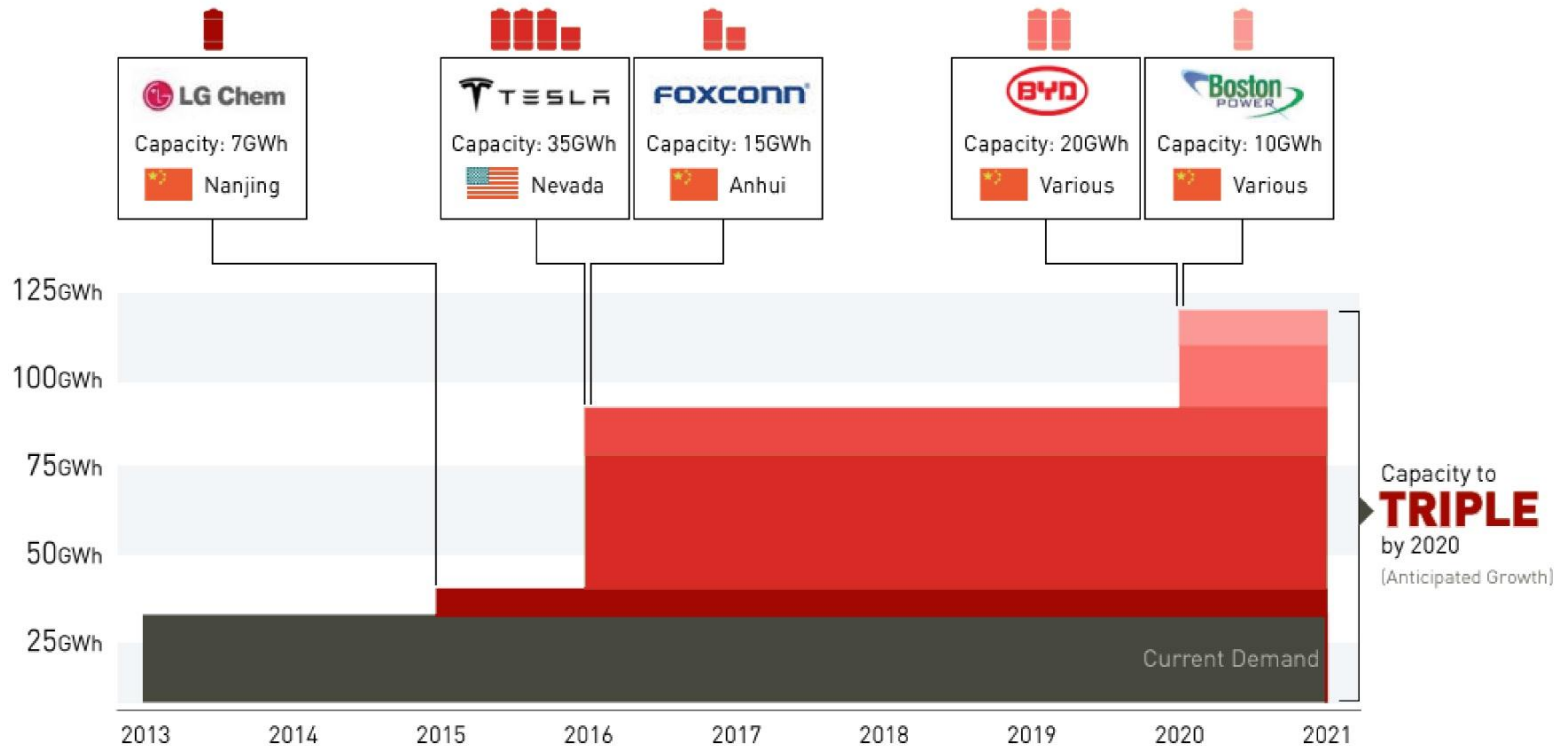


Graphite plays a vital role in clean energy



- Reliable, cheap sources of high quality graphite concentrate is a key factors supporting
Rapid growth of the market for electric vehicles (EV's)
Rapidly growing Energy Storage System (ESS) market
- Global ESS market will be worth about US\$34bn by 2023
- A key catalyst graphite demand/further growth is driven from Li-ion batteries (LiB)
- Tesla, LG, Samsung, LG, Panasonic, Google, BMW are at the forefront of this paradigm shift
- LiB use high purity spherical (natural) graphite and/or synthetic graphite
- Synthetic graphite currently dominates the LiB anode market; mega factories are transitioning to natural graphite due to cost savings
- Average li-ion battery prices fell 53% between 2012 and 2015, and by 2019 IHS forecasts they will decline by half again – largely driven by natural/cheaper input material
- Globally significant enterprises and governments (China/USA) are publically promoting battery storage/green energy initiatives and EV use
- These types of policy change will significantly increase battery demand
- **Battery related Graphite demand is anticipated to increase by about 40% pa**

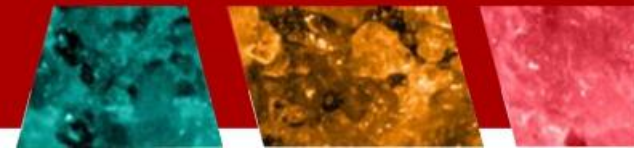
Lithium-Ion battery megafactories are coming



*Benchmark estimates, not all data disclosed by companies **Instant planned capacity stated for graphical purposes, slower ramp up expected

Source: Benchmark Mineral Intelligence, 2015

The Spherical Graphite Process



- Spherical graphite is a physically and chemically altered form of graphite that is optimal for use in anodes for Li-ion batteries. The rounded shape allows for more efficient packaging of particles which increases the energy capacity of the anode
- An opportunity exists to create a spherical graphite facility located outside China
- Spherical test work along with technical and regulatory due diligence is underway
- Spherical graphite derived from natural graphite is produced at approximately 1/3 the cost of synthetically produced spherical graphite
- **This cost saving is incentivising end-users to increase the natural Vs synthetic ratio in products in order to drive consumer prices down whilst maintaining profit margins**
- Lithium ion battery end users typically seek 94-95% first cycle efficiency. Higher than this range disrupts the cathode/anode ratio therefore is not optimum.

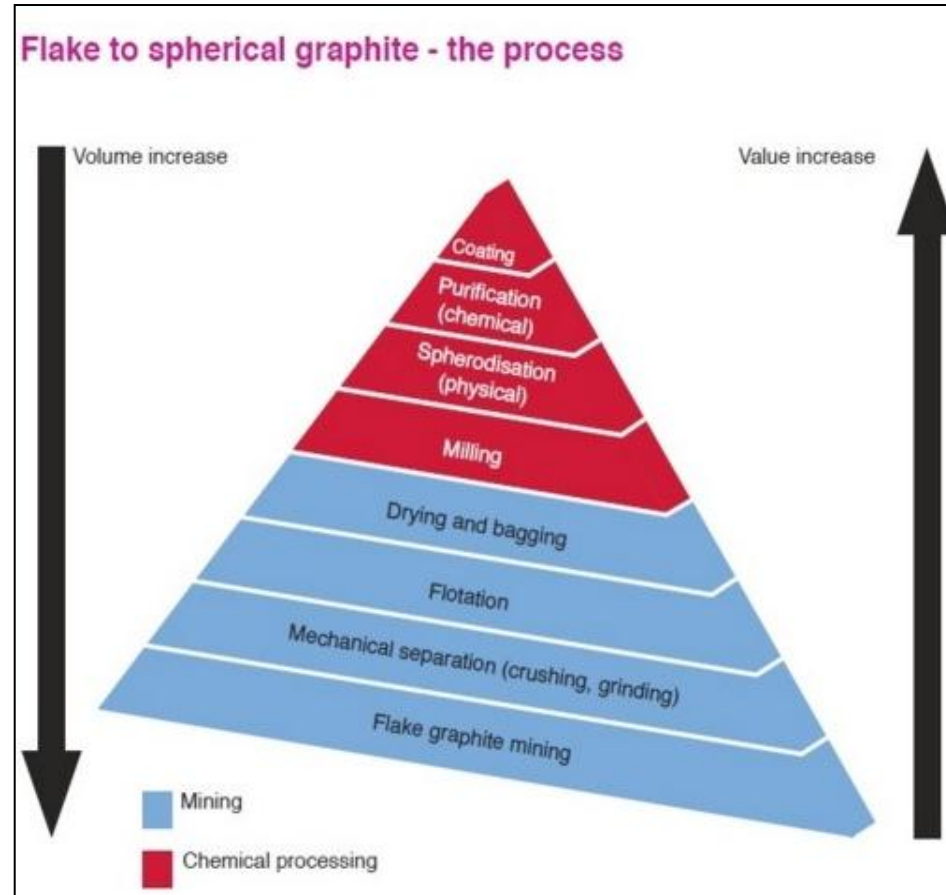







Image Source: Industrial Minerals

The Spherical Graphite Value Add Equation



Indicative Current Market Prices

	Amorphous <75um	Fine <75-150um	Medium <150-180um	Large <180-300um	Jumbo >300um	
FLAKE SIZE						
USD PRICE GUIDE P/T (94-97% Concentrate)	\$550	\$900	\$1,100	\$1,250	\$2,200	OPEX USD \$300
RESOURCE DISTRIBUTION	15.5%	20.7%	7.5%	23.5%	32.7%	
99.95%C	Coated spherical graphite (for Li-ion application)					\$3200
USD PRICE GUIDE P/T	\$5,000 - \$10,000 (MTA is using USD\$7000 average)					

General Current Market Pricing (independent pricing source: Industrial Minerals 2015)

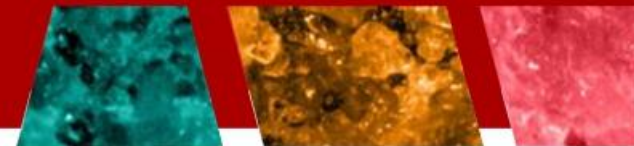


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Clear Development Pathway



Potential development pathways



	2016				2017				2018	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Balama Resource Estimate										
Balama Concept Study										
Montepuez Pre Feasibility Study										
Environmental Impact Study										
Metallurgical Test work										
Spherical Graphite Test work										
End-user product test work										
Off-take Agreements										
Project Finance										
Detailed Design										
Engineering and Plant Construction										
Mining Approval										



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Social Responsibility and Country Engagement



Committed to making a positive difference

Examples of our ongoing local initiatives include:

- Opening and repair of water bores/wells
- Repair of roads and schools
- Commitment to training and development of local labour and staff
- Government geologists training program
- Proud sponsor of a local soccer team
- Hygiene education program





Cherie Leeden
Managing Director
Metals of Africa Limited
E: admin@metalsofafrica.com.au

Appendices



Balama Central JORC Resource Statement, exploration target and Flake size

Balama Graphite Project March 2016 Mineral Resource Estimate (6% TGC Cut-off)					
Type	Indicated Mineral Resource				
	Tonnage Mt	TGC %	V ₂ O ₅ %	Cont. Graphite kt	Cont. V ₂ O ₅ kt
Weathered	2.1	9.9	0.17	205	4
Primary	6.9	9.2	0.15	631	11
Total	8.9	9.3	0.16	836	14

Type	Inferred Mineral Resource				
	Tonnage Mt	TGC %	V ₂ O ₅ %	Cont. Graphite kt	Cont. V ₂ O ₅ kt
Weathered	2.0	12.2	0.27	244	5
Primary	5.3	11.7	0.28	619	15
Total	7.3	11.8	0.27	863	20

Type	Total Mineral Resource				
	Tonnage Mt	TGC %	V ₂ O ₅ %	Cont. Graphite kt	Cont. V ₂ O ₅ kt
Weathered	4.1	11.0	0.22	449	9
Primary	12.2	10.3	0.21	1,250	25
Total	16.3	10.4	0.21	1,699	34

November 2015 Mineral Resource Estimate (6% TGC Cut-off) Notes:

Note:

1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.
2. Flake sizes for the Mineral Resource are tabulated in Tables 2 to 4 below.
3. The Statement of Estimates of Mineral Resources has been compiled under the supervision of Mr. Robert Dennis who is a full-time employee of RPM and a Member of the AusIMM and AIG. Mr. Dennis has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code (2012).
4. All Mineral Resources figures reported in the table above represent estimates at 14th March, 2016. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.
5. Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).
6. Reporting cut-off grade selected based on other known economically viable deposits around the world.
7. TGC = total graphitic carbon.

Balama Central Graphite Project

Exploration Target

Domain	Tonnage Range	Grade Range	Cont. Graphite Range Mt
	Mt	TGC %	
High Grade	17 to 31	13 to 19	2.2 to 5.9
Medium Grade	26 to 47	6 to 9	1.6 to 4.2
Total	43 to 78	9 to 13	3.8 to 10.1

Table 2 - Lennox Weathered Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Jumbo	>300	32.8	32.8
Large	180-300	18.7	51.5
Medium	150-180	5.8	57.4
Fine	75-150	16.7	74.1
Very Fine	<75	25.9	100.0

Table 3 - Lennox Primary Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Jumbo	>300	34.7	34.7
Large	180-300	19.3	54.0
Medium	150-180	5.7	59.7
Fine	75-150	16.4	76.1
Very Fine	<75	23.9	100.0

Table 4 - Lennox Combined Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Jumbo	>300	33.8	33.8
Large	180-300	19.1	52.8
Medium	150-180	5.7	58.6
Fine	75-150	16.6	75.1
Very Fine	<75	24.9	100.0

Balama Central JORC Resource – Cut-off grade chart

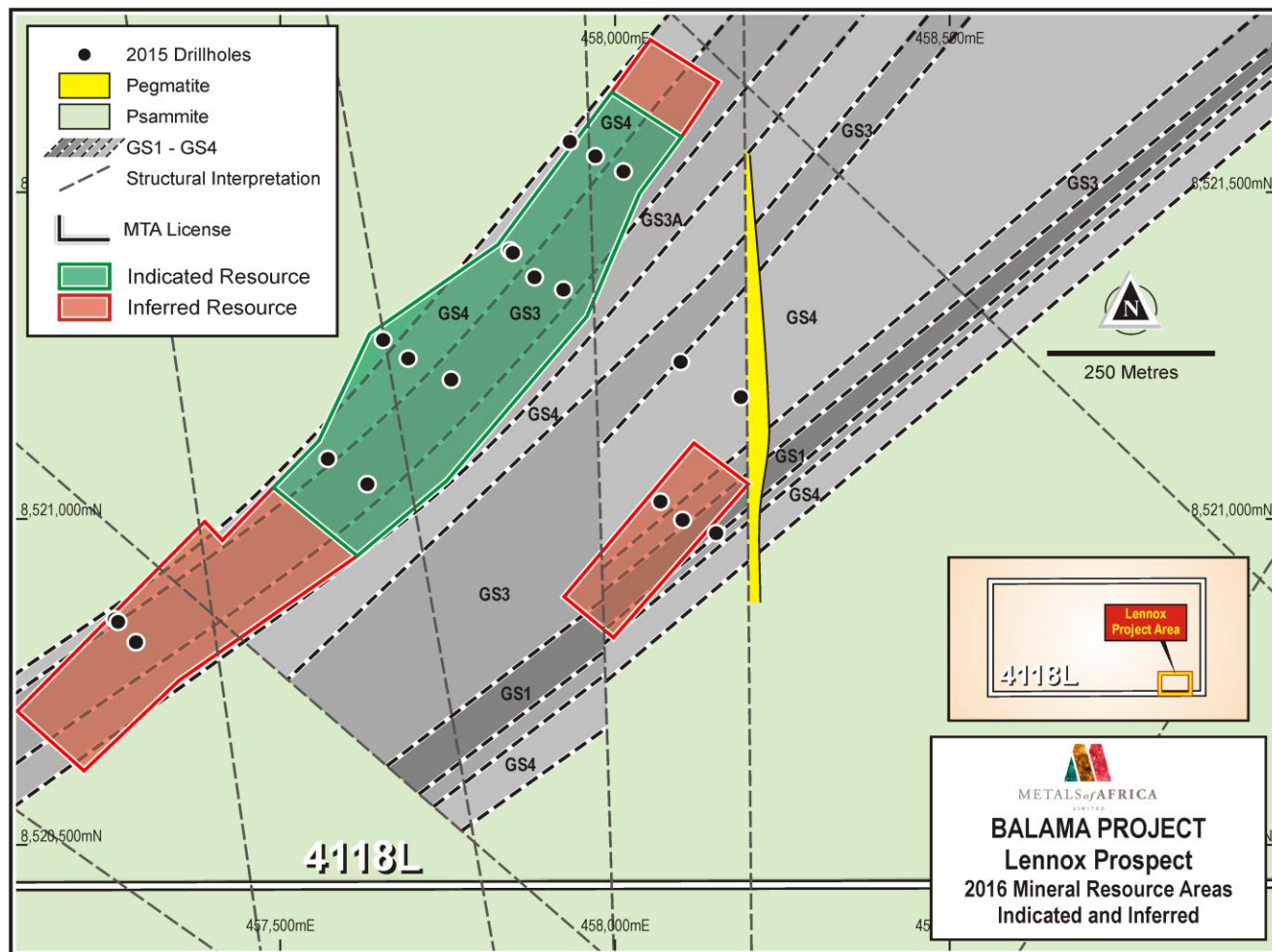
Balama Graphite Project March 2016 Mineral Resource Estimate

Grade Range TGC%	Incremental Resource					Cut-off Grade TGC%	Cumulative Resource				
	Tonnes t	TGC %	V ₂ O ₅ %	Contained Graphite (t)	Contained Vanadium (t)		Tonnes t	TGC %	V ₂ O ₅ %	Contained Graphite (t)	Contained Vanadium (t)
1.0 - 2.0	13,477	1.79	0.03	241	4	1	35,795,292	7.29	0.14	2,609,203	49,874
2.0 - 3.0	1,764,208	2.81	0.06	49,654	1,088	2	35,781,815	7.29	0.14	2,608,962	49,870
3.0 - 4.0	2,948,894	3.54	0.07	104,289	2,100	3	34,017,607	7.52	0.14	2,559,308	48,783
4.0 - 5.0	6,369,403	4.56	0.08	290,286	4,898	4	31,068,713	7.90	0.15	2,455,019	46,682
5.0 - 6.0	8,438,688	5.52	0.09	465,744	7,630	5	24,699,310	8.76	0.17	2,164,733	41,784
6.0 - 7.0	7,115,854	6.48	0.11	461,131	7,520	6	16,260,622	10.45	0.21	1,698,989	34,155
7.0 - 8.0	2,231,995	7.35	0.12	163,987	2,719	7	9,144,768	13.54	0.29	1,237,858	26,635
8.0 - 9.0	365,188	8.35	0.13	30,483	463	8	6,912,773	15.53	0.35	1,073,871	23,916
9.0 - 10.0	10,415	9.11	0.11	949	12	9	6,547,585	15.94	0.36	1,043,388	23,453
10.0 - 11.0	0	0.00	0.00	0	0	10	6,537,170	15.95	0.36	1,042,439	23,442
11.0 - 12.0	2,239,835	11.74	0.42	263,009	9,452	11	6,537,170	15.95	0.36	1,042,439	23,442
12.0 - 13.0	0	0.00	0.00	0	0	12	4,297,335	18.14	0.33	779,430	13,990
13.0 - 14.0	0	0.00	0.00	0	0	13	4,297,335	18.14	0.33	779,430	13,990
14.0 - 15.0	3,979	14.69	0.23	585	9	14	4,297,335	18.14	0.33	779,430	13,990
15.0 - 20.0	3,880,419	17.86	0.32	693,212	12,264	15	4,293,356	18.14	0.33	778,845	13,981
> 20.0	412,937	20.74	0.42	85,633	1,716	20	412,937	20.74	0.42	85,633	1,716
Total	35,795,292	7.29	0.14	2,609,203	49,874						

Note:

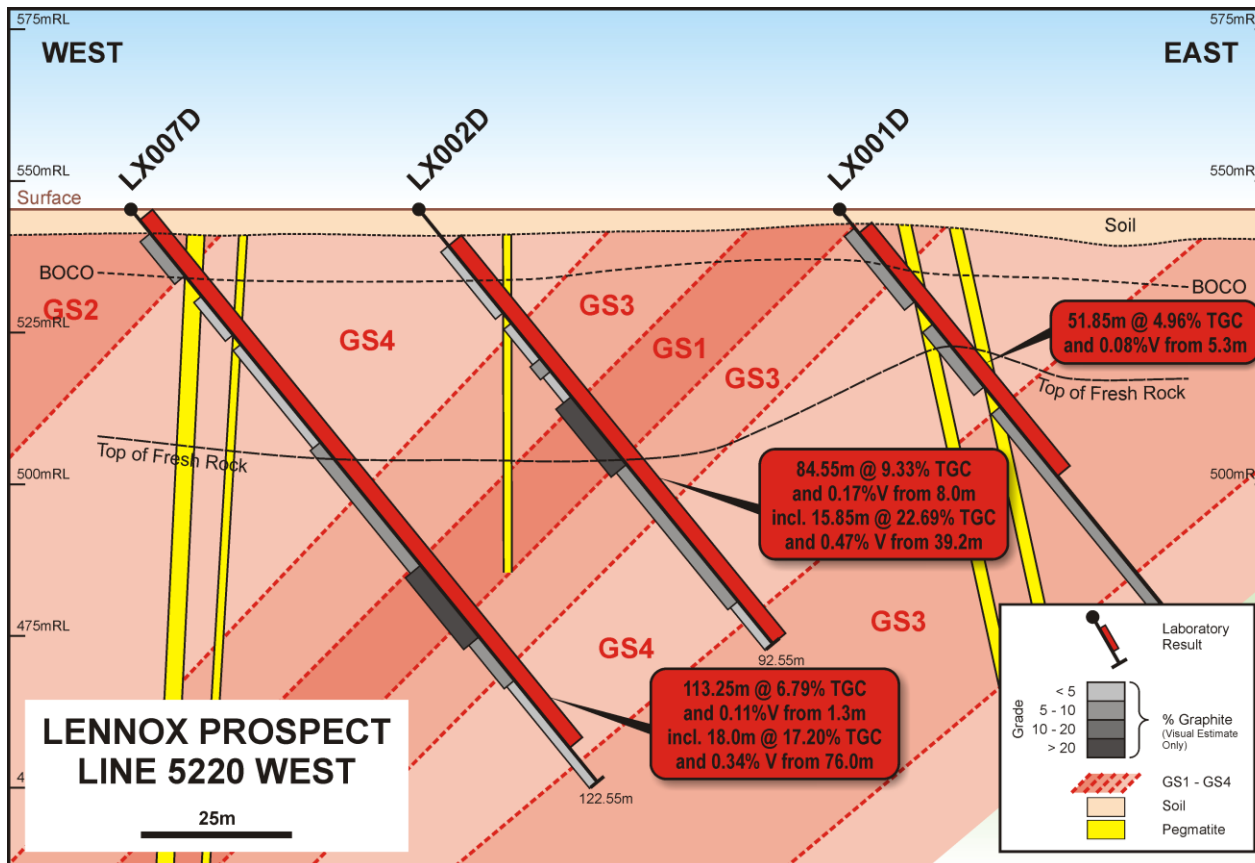
1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.
2. Flake sizes for the Mineral Resource are tabulated in Tables 2 to 6 below.
3. The Statement of Estimates of Mineral Resources has been compiled under the supervision of Mr. Robert Dennis who is a full-time employee of RPM and a Member of the AusIMM and AIG. Mr. Dennis has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code (2012).
4. All Mineral Resources figures reported in the table above represent estimates at 21 March 2016. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.
5. Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).
6. Reporting cut-off grade selected based on other known economically viable deposits in the region. For further details, refer to grade tonnage information contained within Table 7 above.
7. TGC = total graphitic carbon.

Balama: Lennox Prospect



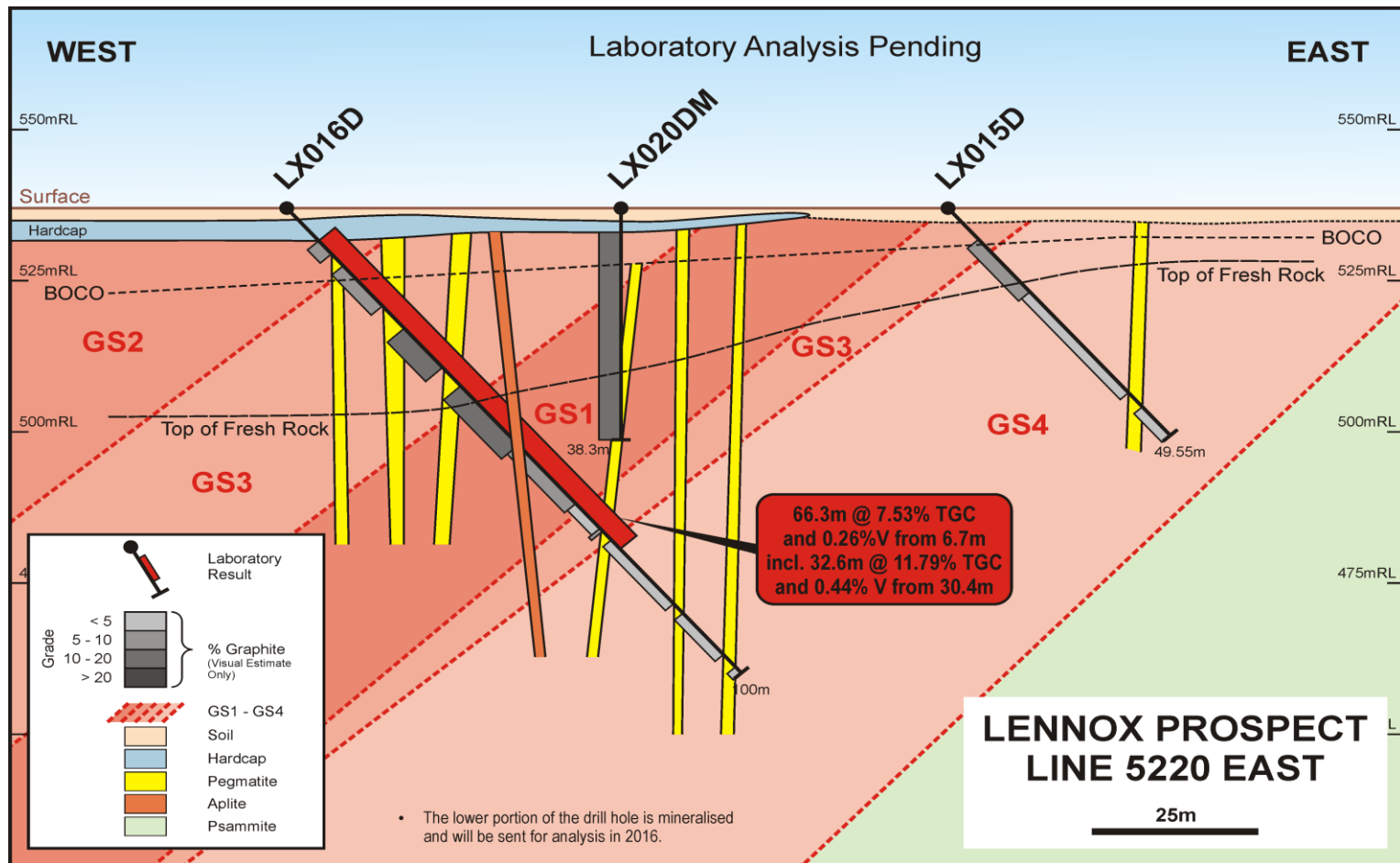
Appendix Figure 1. Figure 1 provides the Inferred and Indicated Mineral Resource polygon for the Lennox prospect with a simplified surface geology map showing a large area to the west of mapped graphitic schist which is yet to be drill tested and is co-incident with a VTEM conductor target. Further drilling is required to test portions of the VTEM

Balama: Lennox Prospect



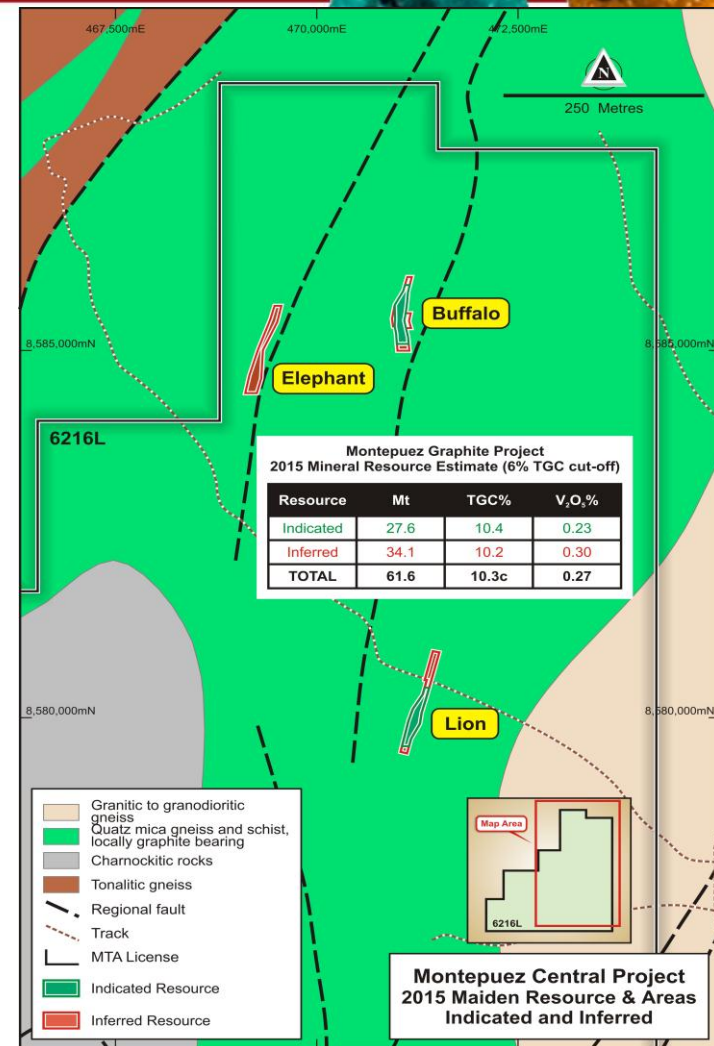
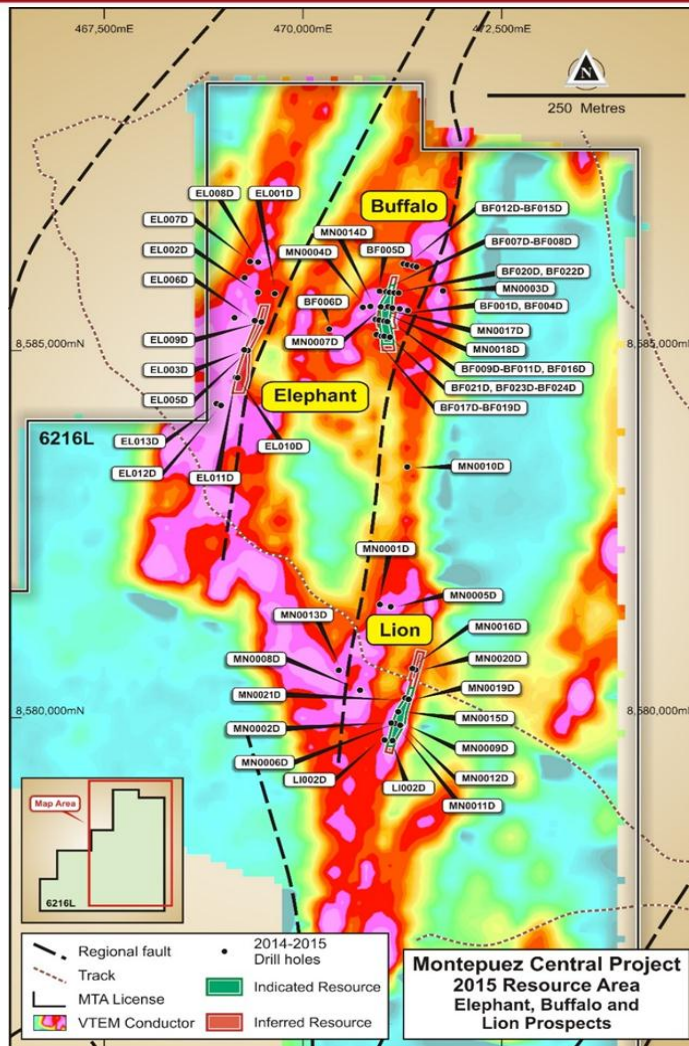
Appendix Figure 2. Geological cross Section of the Lennox Prospect section line 5220 Central – Discovery Section sub cropping GS3 mineralisation within a creek line

Balama: Lennox Prospect



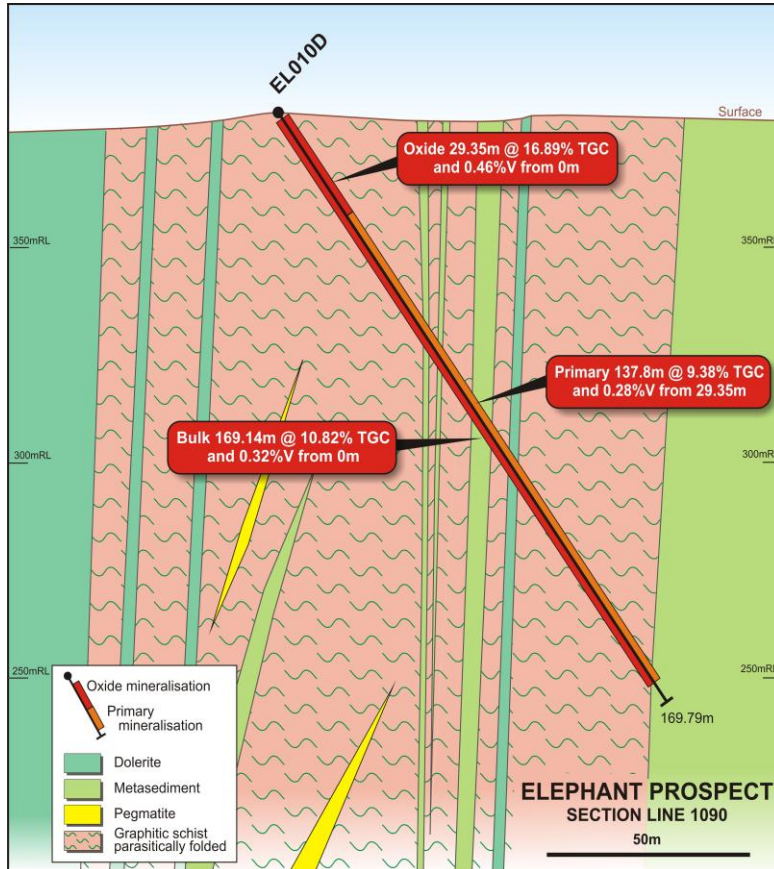
Appendix figure 3. Geological cross Section of the Lennox Prospect high priority target for 2016 section line 5220

Montepuez: Drilling tested only 5% of prospective geology

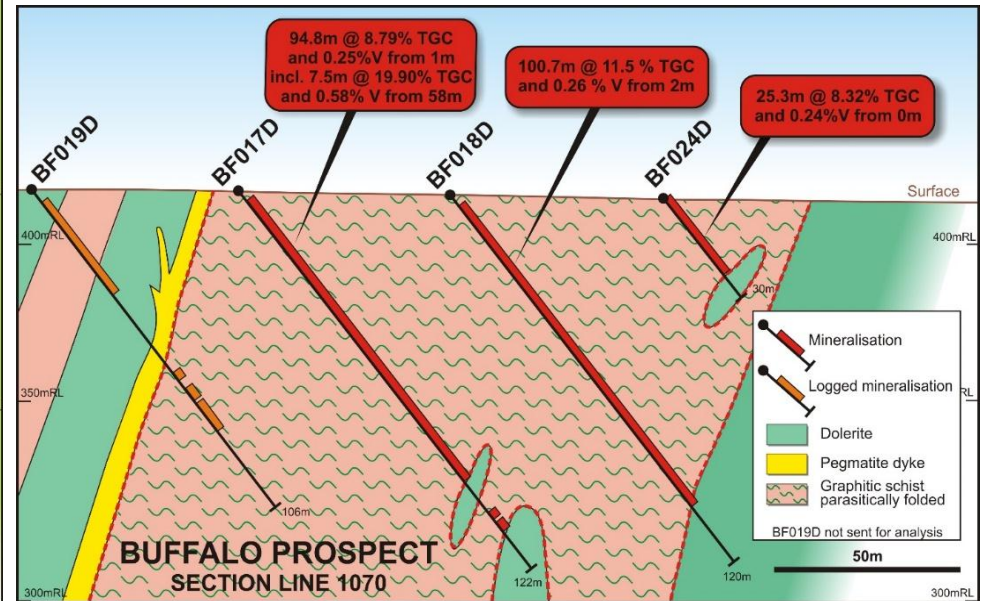


60 diamond holes for 6,450 metres

Montepuez: Elephant and Buffalo Resources



- Excellent grade (>10% TGC)
- At surface = cheap mining
- Mineralisation remains open in every direction



100% owned tier 1 graphite resource in the world's richest graphite province

Montepuez JORC Resource Statement

Montepuez Graphite Project
November 2015 Mineral Resource Estimate (6% TGC Cut-off)

Deposit	Type	Indicated Mineral Resource				
		Tonnes Mt	TGC %	V ₂ O ₅ %	Cont. Graphite Mt	Cont. V ₂ O ₅ Kt
Buffalo	Weathered	2.9	9.8	0.23	0.3	7
	Primary	21.0	10.3	0.21	2.2	45
Lion	Weathered	0.6	11.4	0.26	0.1	1
	Primary	3.1	11.3	0.32	0.3	10
Total		27.6	10.4	0.23	2.9	62

Deposit	Type	Inferred Mineral Resource				
		Tonnes Mt	TGC %	V ₂ O ₅ %	Cont. Graphite Mt	Cont. V ₂ O ₅ Kt
Buffalo	Weathered	1.1	8.2	0.19	0.1	2
	Primary	3.4	8.8	0.20	0.3	7
Lion	Weathered	0.1	12.6	0.34	0.0	0
	Primary	0.4	12.1	0.34	0.1	1
Elephant	Weathered	2.7	10.5	0.32	0.3	9
	Primary	26.4	10.3	0.31	2.7	81
Total		34.1	10.2	0.30	3.5	101

Deposit	Type	Total Mineral Resource				
		Tonnes Mt	TGC %	V ₂ O ₅ %	Cont. Graphite Mt	Cont. V ₂ O ₅ Kt
Buffalo	Weathered	4.0	9.4	0.22	0.4	9
	Primary	24.4	10.1	0.21	2.5	52
Lion	Weathered	0.6	11.5	0.27	0.1	2
	Primary	3.5	11.4	0.32	0.4	11
Elephant	Weathered	2.7	10.5	0.32	0.3	9
	Primary	26.4	10.3	0.31	2.7	81
Total		61.6	10.3	0.27	6.3	163

Table 2 Buffalo Weathered Material Type Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Very Fine	<75	16.0	100.0
Fine	75-150	21.6	84.0
Medium	150-180	8.1	62.4
Large	180-300	25.2	54.3
Jumbo	>300	29.0	29.0

Table 3 Buffalo Primary Material Type Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Very Fine	<75	11.3	100.0
Fine	75-150	18.8	88.7
Medium	150-180	7.8	69.9
Large	180-300	24.6	62.1
Jumbo	>300	37.5	37.5

Table 4 Lion Weathered Material Type Flake Size Classification

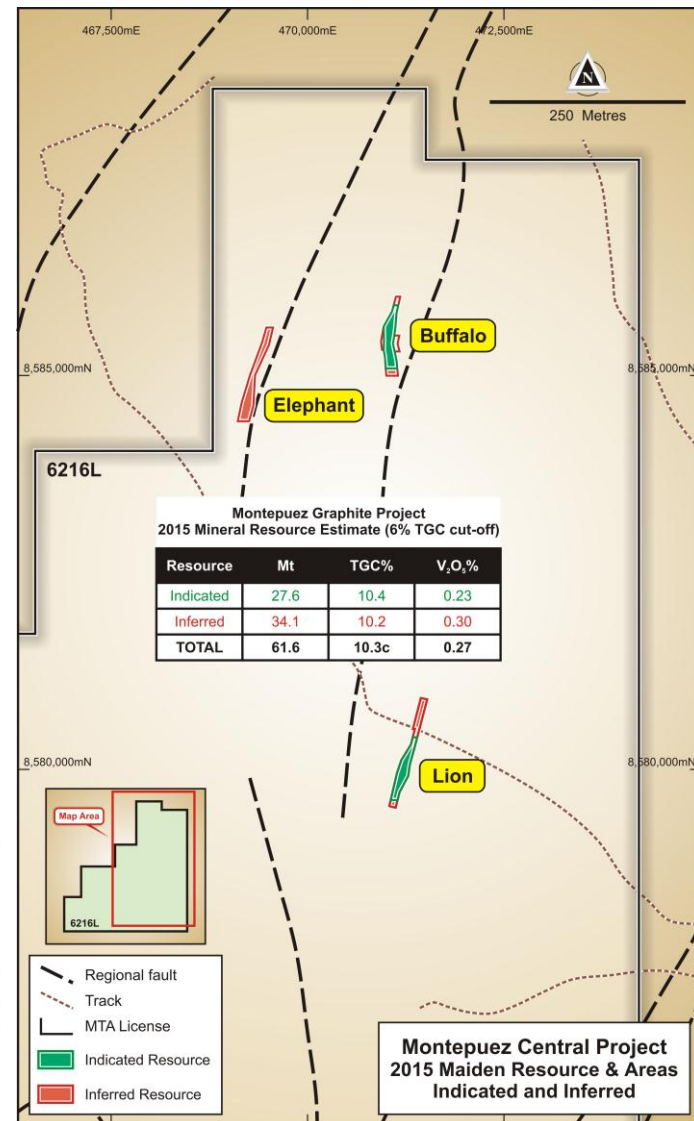
Classification	Sieve Size (µm)	% in Interval	Cumulative %
Very Fine	<75	20.6	100.0
Fine	75-150	22.8	79.4
Medium	150-180	7.9	56.6
Large	180-300	23.2	48.7
Jumbo	>300	25.5	25.5

Table 5 Lion Primary Material Type Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Very Fine	<75	16.0	100.0
Fine	75-150	20.6	84.0
Medium	150-180	6.6	63.3
Large	180-300	21.7	56.8
Jumbo	>300	35.1	35.1

Table 6 Combined Montepuez Project Flake Size Classification

Classification	Sieve Size (µm)	% in Interval	Cumulative %
Very Fine	<75	15.5	100.0
Fine	75-150	20.7	84.5
Medium	150-180	7.5	63.8
Large	180-300	23.5	56.3
Jumbo	>300	32.7	32.7



Montepuez JORC Resource – Cut-off grade chart

Montepuez Graphite Project November 2015 Mineral Resource Estimate

Grade Range TGC%	Incremental Resource					Cut-off Grade TGC%	Cumulative Resource				
	Tonnes t	TGC %	V ₂ O ₅ %	Contained Graphite (t)	Contained Vanadium (t)		Tonnes t	TGC %	V ₂ O ₅ %	Contained Graphite (t)	Contained Vanadium (t)
1.0 - 2.0	80,302	1.97	0.05	1,582	44	1	83,527,774	8.81	0.23	7,357,009	190,620
2.0 - 3.0	1,396,495	2.55	0.06	35,639	887	2	83,447,472	8.81	0.23	7,355,427	190,576
3.0 - 4.0	2,653,909	3.69	0.09	97,805	2,466	3	82,050,977	8.92	0.23	7,319,788	189,689
4.0 - 5.0	7,529,132	4.53	0.12	340,970	9,296	4	79,397,068	9.10	0.24	7,221,983	187,223
5.0 - 6.0	10,245,400	5.50	0.14	563,119	14,849	5	71,867,936	9.57	0.25	6,881,012	177,927
6.0 - 7.0	7,146,042	6.51	0.17	465,033	12,497	6	61,622,536	10.25	0.26	6,317,894	163,079
7.0 - 8.0	7,505,020	7.54	0.20	566,217	14,861	7	54,476,494	10.74	0.28	5,852,861	150,582
8.0 - 9.0	8,431,197	8.52	0.22	718,663	18,307	8	46,971,474	11.26	0.29	5,286,644	135,721
9.0 - 10.0	10,464,986	9.53	0.23	997,611	24,367	9	38,540,277	11.85	0.30	4,567,981	117,415
10.0 - 11.0	9,586,488	10.47	0.26	1,003,564	25,024	10	28,075,291	12.72	0.33	3,570,370	93,048
11.0 - 12.0	5,790,582	11.51	0.29	666,225	16,595	11	18,488,803	13.88	0.37	2,566,806	68,024
12.0 - 13.0	3,523,078	12.38	0.31	436,144	10,973	12	12,698,221	14.97	0.41	1,900,581	51,428
13.0 - 14.0	2,104,757	13.44	0.36	282,811	7,583	13	9,175,143	15.96	0.44	1,464,437	40,455
14.0 - 15.0	2,488,293	14.81	0.46	368,471	11,403	14	7,070,386	16.71	0.46	1,181,626	32,872
15.0 - 20.0	4,101,168	17.47	0.47	716,360	19,148	15	4,582,093	17.75	0.47	813,155	21,469
> 20.0	480,925	20.13	0.48	96,796	2,321	20	480,925	20.13	0.48	96,796	2,321
Total	83,527,774	8.81	0.23	7,357,009	190,620						

Note:

1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.
2. Flake sizes for the Mineral Resource are tabulated in Tables 2 to 6 below.
3. The Statement of Estimates of Mineral Resources has been compiled under the supervision of Mr. Robert Dennis who is a full-time employee of RPM and a Member of the AusIMM and AIG. Mr. Dennis has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code (2012).
4. All Mineral Resources figures reported in the table above represent estimates at 12th November, 2015. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.
5. Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).
6. Reporting cut-off grade selected based on other known economically viable deposits in the region. For further details, refer to grade tonnage information contained within Table 7 above.
7. TGC = total graphitic carbon.