



TRITON  
MINERALS LTD

# **CORPORATE PRESENTATION**

29 May 2014

This document contains forward-looking statements. These statements relate to future events or our future financial performance. Their accuracy is dependent on known and unknown risks, uncertainties and other factors that may cause our or our industry's actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressly or implicitly predicted by the forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may," "should," "expect," "plan," "anticipate," "believe," "estimate," "predict," "potential," "continue," or the negative of such terms or other comparable terminology. These statements are only predictions. Actual events or results may differ materially. In evaluating these statements, you should specifically consider various factors, including the risks outlined herein, which may cause our actual results to differ materially from any forward-looking statement. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We are under no duty to update any of the forward-looking statements after the date of this document in order to conform such statements to actual results, whether such results are based on new information or otherwise.

## Directors

Alan Jenks – Non Executive Chairman

Brad Boyle – Managing Director

Alf Gillman – Non Executive Director

## Current Capital Structure

256,306,126 Shares

30,085,713 Unlisted Options

**Market Cap at 28 May 2014**

\$34.6M

## Top 20 Shareholders

Hold 51.7%

**ASX: TON**



**Image 1.** RC Drill Rig on site a Cobra Plains prospect in License 5365 at Balama North project.

## Features:

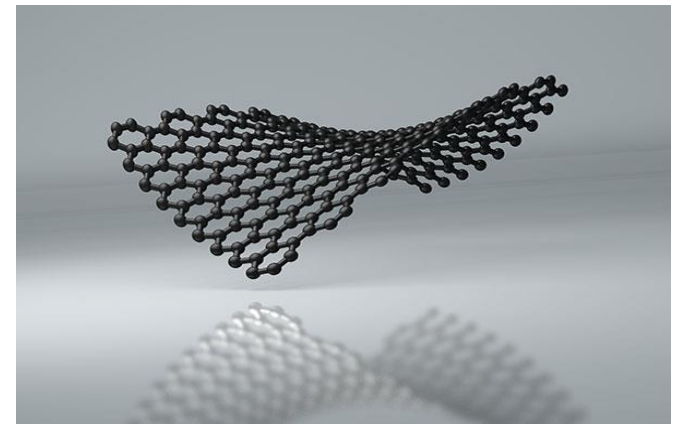
- One of the most common and stable types of carbon
- Excellent electrical conductor
- Extremely strong cohesive bonds, heat-resistant (to 3000° C)
- Resistant to solvents, dilute acids, or fused alkalis
- Growing industrial demand from emerging economies
- Chinese supply concerns (**reduced production**)
- **EU** and **USA** have named graphite a supply critical mineral
- **GRAPHENE**: Demand and uses continue to develop  
(**Graphene Flagship: 17 Countries, 75 research groups**)

## Forms of Graphite

- Natural Graphite: Flake, Vein & Amorphous
- Synthetic Graphite



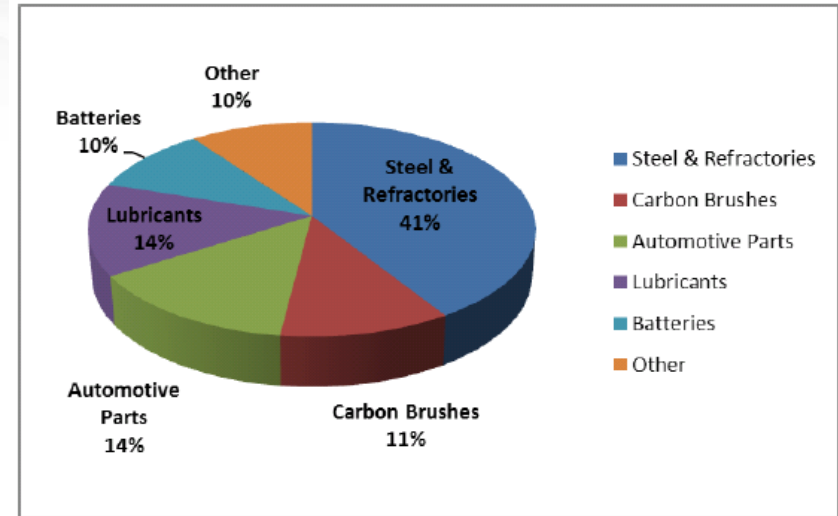
**Image 2.** Sample of Graphite  
(Image Sourced from Wikipedia <http://en.wikipedia.org/wiki/Graphite>)



**Image 3.** Sample of Graphene molecules  
(Image Sourced from Graphene Flagship: <http://graphene-flagship.eu/research/>)

## Material Use:

- Dry lubricant (Industrial applications)
- Medical implants
- Reentry shields for missile nosecones
- Solid rocket engines
- High temperature reactors
- Brake shoes and electric motor brushes
- Fire seals, fitted around the perimeter of a fire door
- Batteries: Li ion batteries, fuel cells, nuclear power
- Electronic devices (smart phones, TV)



Source: Mackie Research Capital 2011

Image 4. Common uses for Graphite

Image 5. Common uses for Graphite (Image sourced from Castle Minerals Ltd, July 2012)



Mobile Electronics

Electric Vehicles

Refractory

Foundry Industry

Graphite Electrode

Sealing Material

Pencil Core



## KEY FEATURES

- Triton holds 60% interest in Graphite Projects, moving to 80% interest
- Consists of 5 granted exploration licenses and 3 applications, covering a total area of about 1,150 square kilometres
- Licences adjoin known Graphite mineralisation and historical High Grade Flake Graphite mine
- Extensive Graphite mineralisation located in Balama and numerous Graphite exposures located in Ancuabe
- High grade large flake Graphite identified at both the Balama North and Ancuabe projects
- Easy access to sites
- Close to good infrastructure for future project development needs, including Pemba natural deep water port
- Strong Local Community and Federal Government support

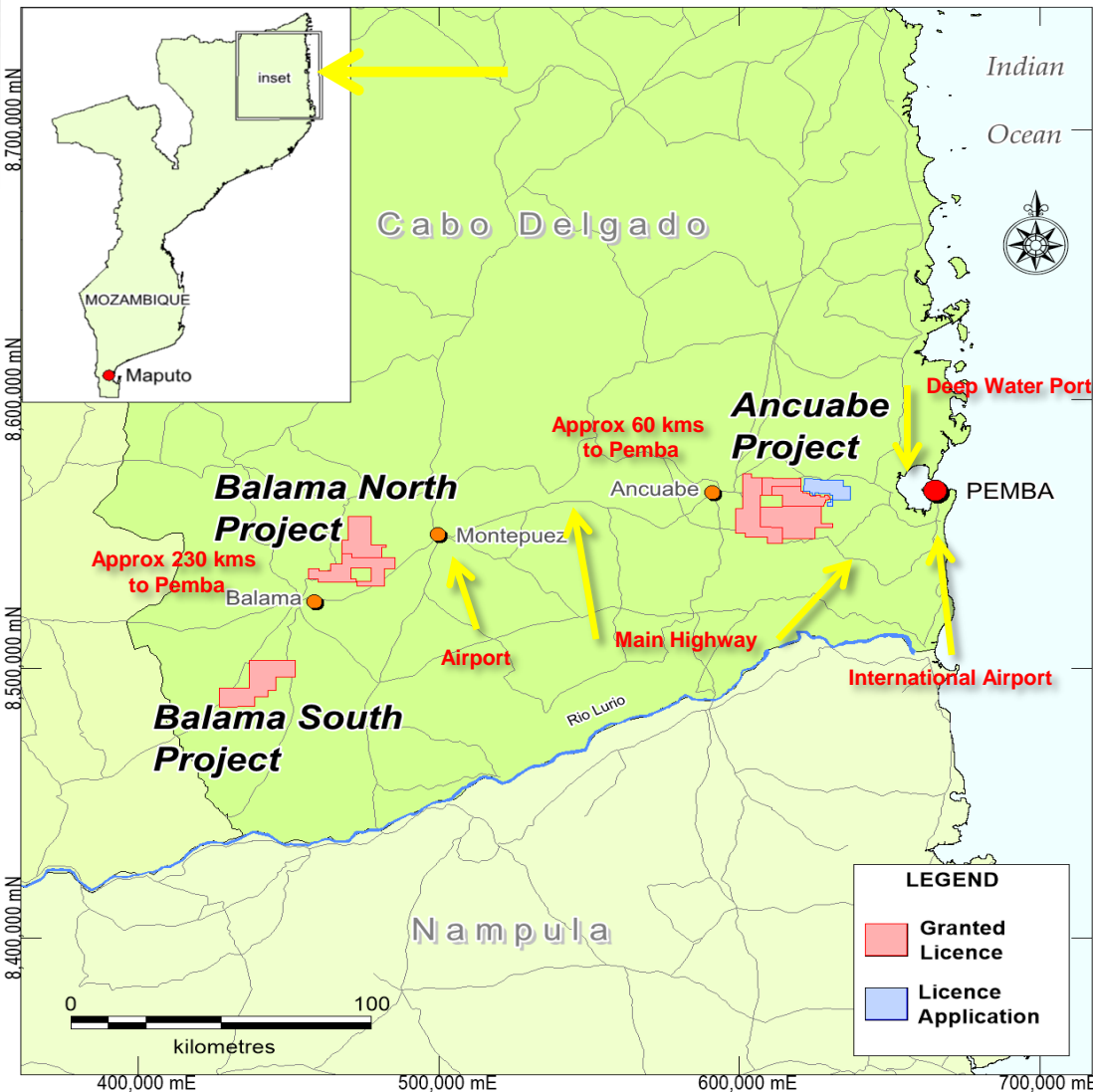


Image 6. Overview of the Balama and Ancuabe exploration license areas



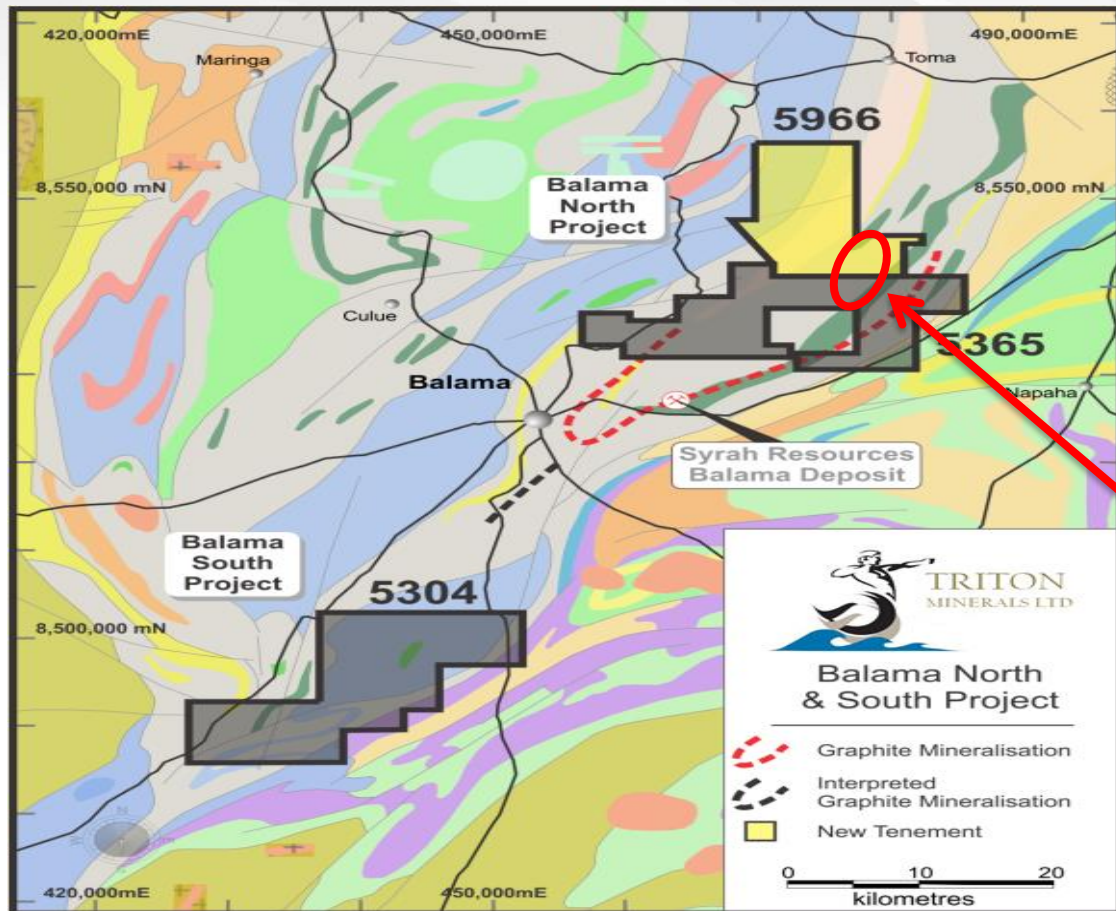


Nicanda Hill Prospect

# BALAMA PROSPECTS







## KEY FEATURES

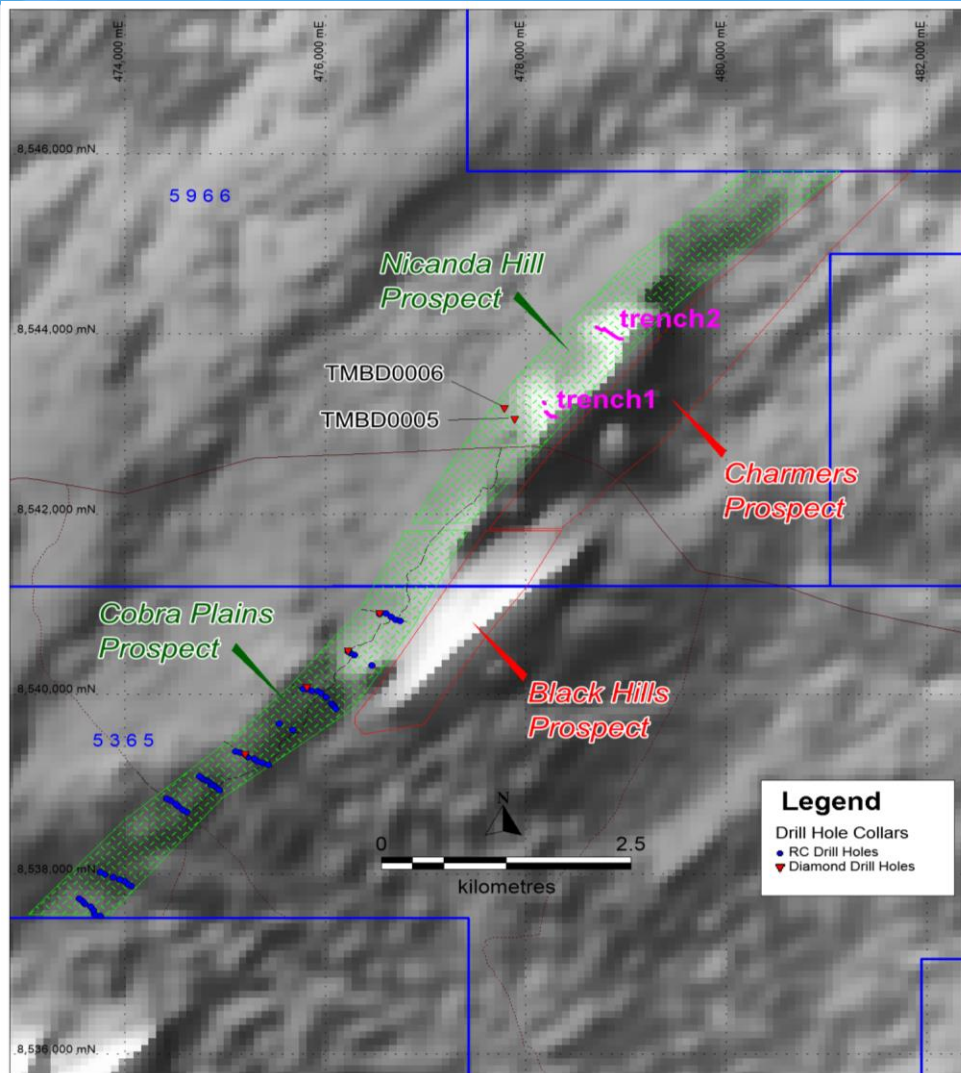
- Inferred Resource Graphite Deposit at Cobra Plains
- High grade large flake Graphite and Vanadium identified in multiple zones
- Extensive Graphitic outcropping of 3.75km also identified in License 5966.
- High grade large flake graphite intersected at Nicanda Hill
- Potential to extend mineralisation zone up to 10kms at Balama North project.
- Potential Graphite mineralisation identified at Balama South Project
- Easy access to sites
- Close to infrastructure at Balama and Montepuez
- Strong local landowner support

**Image 7.** Overview of the interpreted regional structural geology and graphite mineralisation potential in the Balama License areas (location of the graphite exposure is an approximation for illustration purposes only)



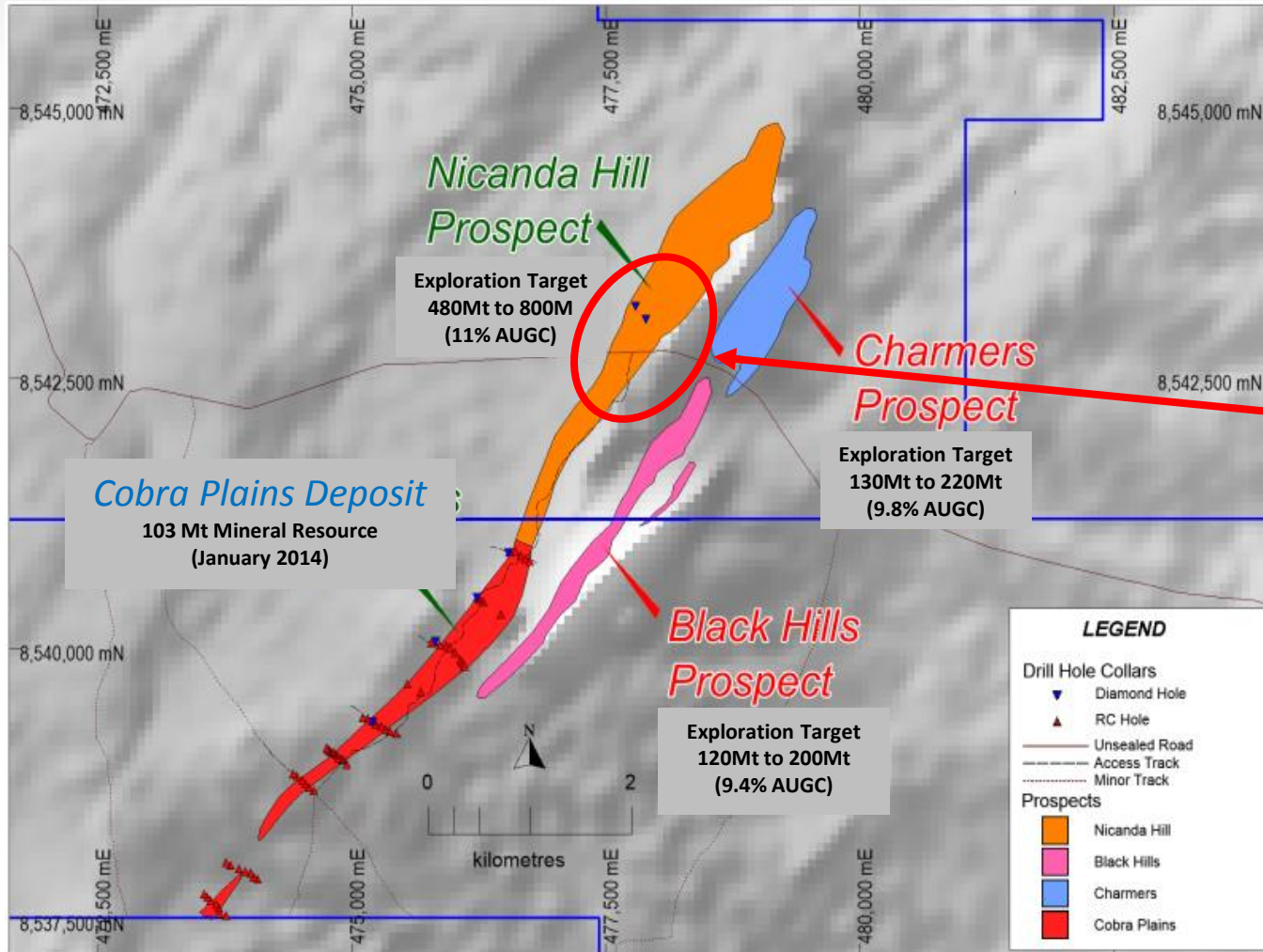
## KEY FEATURES

- Extensive Graphite mineralisation located in Nicanda Hill and Cobra Plains Prospects
- Potential to host multiple large scale flake graphite deposits
- Initial RC and Diamond drilling programs completed at Cobra Plains prospect in October 2013, with Diamond drilling focus on Nicanda Hill prospect
- High grade large flake graphite intersected (up to **28.6% TGC**) in Diamond Drilling.
- RC drilling with intercepts of **220m** graphitic mineralization, **open at depth**
- Trenching samples confirm high grade graphite mineralisation along Nicanda Hill
- High grade graphite identified (up to **18% TGC**) at Charmers and Black Hills prospects.
- Easy access to site and close to infrastructure at Montepuez and local labour force



**Image 8.** Location of holes TMBD0005 and TMBD0006 drilled on the Nicanda Hill prospect, relative to the drilling completed earlier this year on the Cobra Plains prospect. The two surface trenches are represented by the labelled pink lines. The base image is the digital elevation model from the Space Shuttle Topographic Mission data; lighter areas represented higher elevation. Map datum – WGS84 Zone 37 South.

## GRAPHITE EXPLORATION TARGETS



Graphite exploration target range for the Balama North prospect of approximately **730Mt to 1,200Mt**

**Current Drilling Focus**

### Competent Person Statement

The information in this report that relates to Exploration Targets at the Nicanda Hill, Charmers and Black Hills prospects on the Balama North project is based on, and fairly represents, information and supporting documentation prepared by Mr Mark Drabble, who is a Member of the Australasian Institute of Mining & Metallurgy. Mr Drabble is not a full-time employee of the Company. Mr Drabble is employed as a Consultant from Optiro Pty Ltd. Mr Drabble 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 Mineral Resources and Ore Reserves (the JORC Code)'. Mr Drabble consents to the inclusion in this report the exploration results and the supporting information in the form and context as it appears.

**Image 9.** Extents of the known graphite schist units at the Cobra Plains, Nicanda Hill, Charmers and Black Hills prospects on the Balama North Project from which the combined Exploration Target of between 730Mt to 1,200Mt at an assumed average graphite carbon grade between 5% and 6% allowing for dilution of low grade or non-graphite bearing material. The Exploration Target is conceptual in nature and should not be construed as a Mineral Resource that may or may not be defined as a result of further drilling and sampling. Datum: WGS84 Zone 37S.

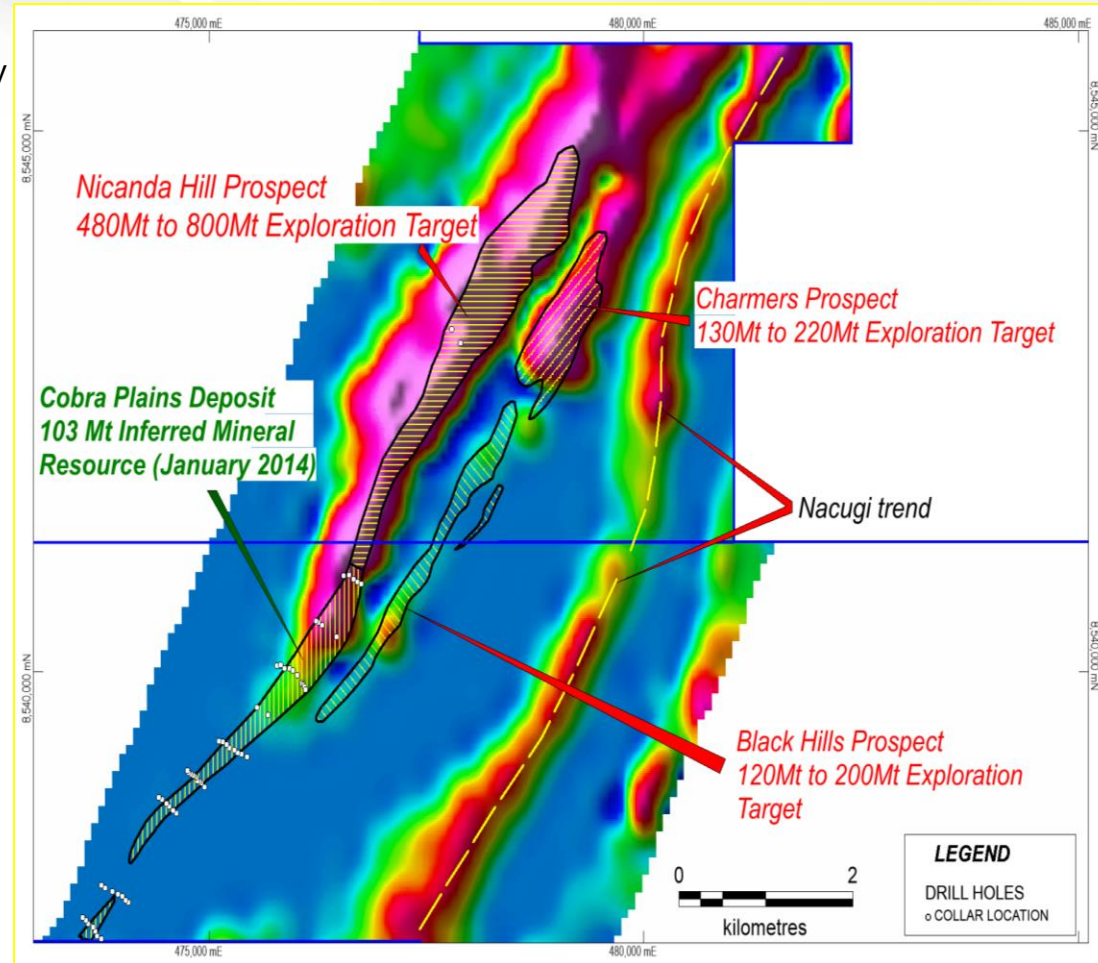


## KEY FEATURES

- Showing potential graphite mineralisation continuity between Nicanda Hill and Cobra Plains prospects
- Potential to extend the graphite strike up to 10kms
- Multiple drill target areas further defined and to be drill tested
- Potential to host multiple large graphite mineralization zones
- VTEM expands potential beyond identified targets
- Metallurgical Testwork continues
- Scoping Study due to finish July



Image 9. Image of Graphitic outcropping located at Black Hills prospect.

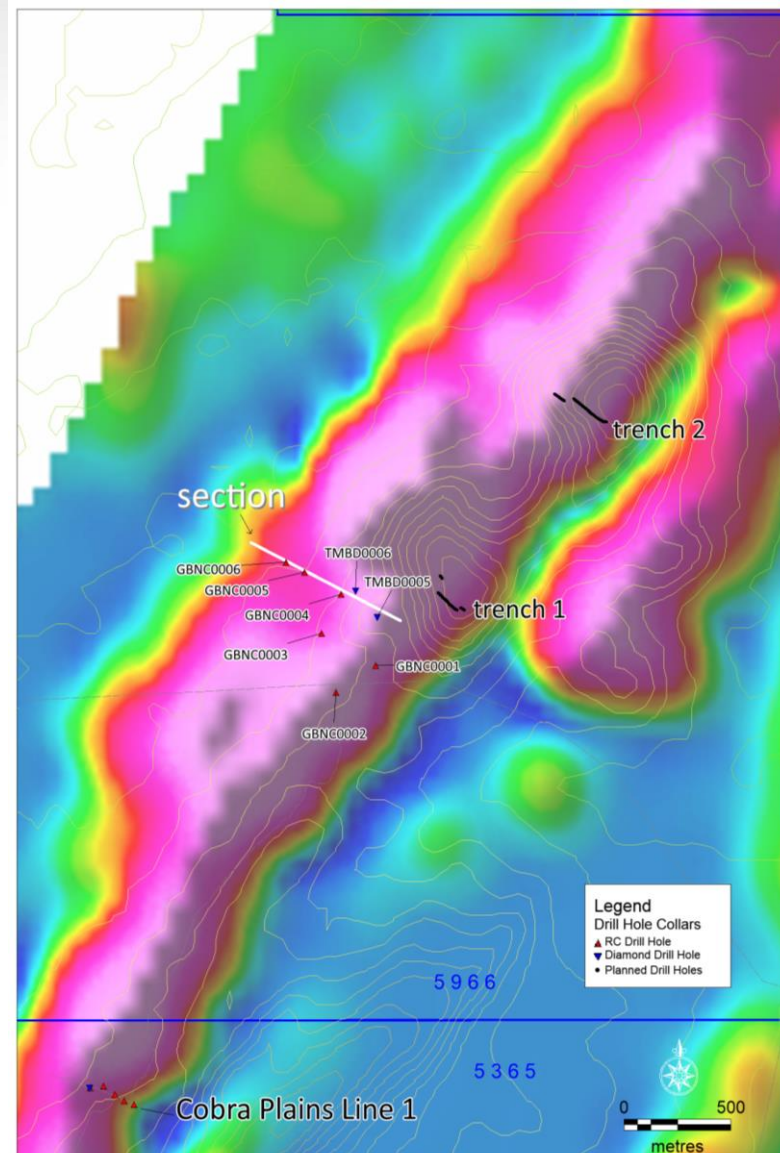


**Image 10.** Outline of the known graphite schist zones at the Cobra Plains Deposit, Nicanda Hill, Charmer's and Black Hills prospects overlain on the 50m conductivity depth slice from the VTEM survey. The tonnages for the Exploration Targets for the Balama North Project, first announced on 5<sup>th</sup> February 2014, give a combined Exploration Target of between 730Mt to 1,200Mt at an assumed average graphite carbon grade between 5% and 6% allowing for dilution of low grade or non-graphite bearing material. The Exploration Target is conceptual in nature and should not be construed as a Mineral Resource that may or may not be defined as a result of further drilling and sampling. Datum: WGS84 Zone 37S.

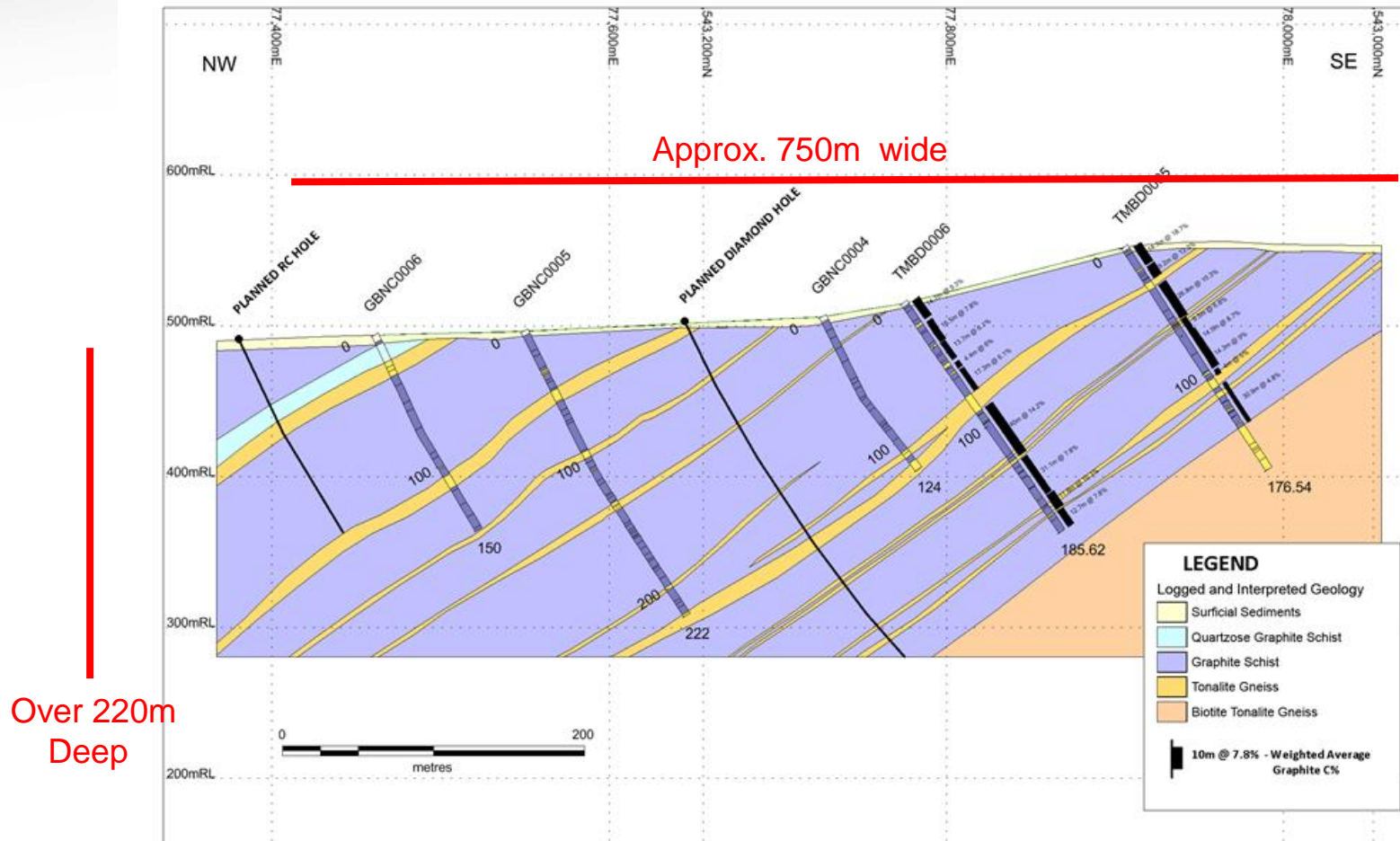


## KEY FEATURES

- RC drill hole (GBNC0005) intercepts **220m** of graphite mineralisation from surface and is open at depth
- Mineralised zone is likely to continue for some depth beyond the 220m.
- Graphite mineralization visually similar to previous Nicanda Hill diamond drilling
- The horizontal width of the graphite mineralization zone is approximately 750m wide
- Excellent correlation of drilling results with the VTEM survey data anomaly
- Drilling provides Triton further confidence in the long strike potential and graphite mineralization continuity on Nicanda Hill
- Drilling results confirm world class potential of Balama North Project
- JORC Resource for Nicanda Hill anticipated by early 2015



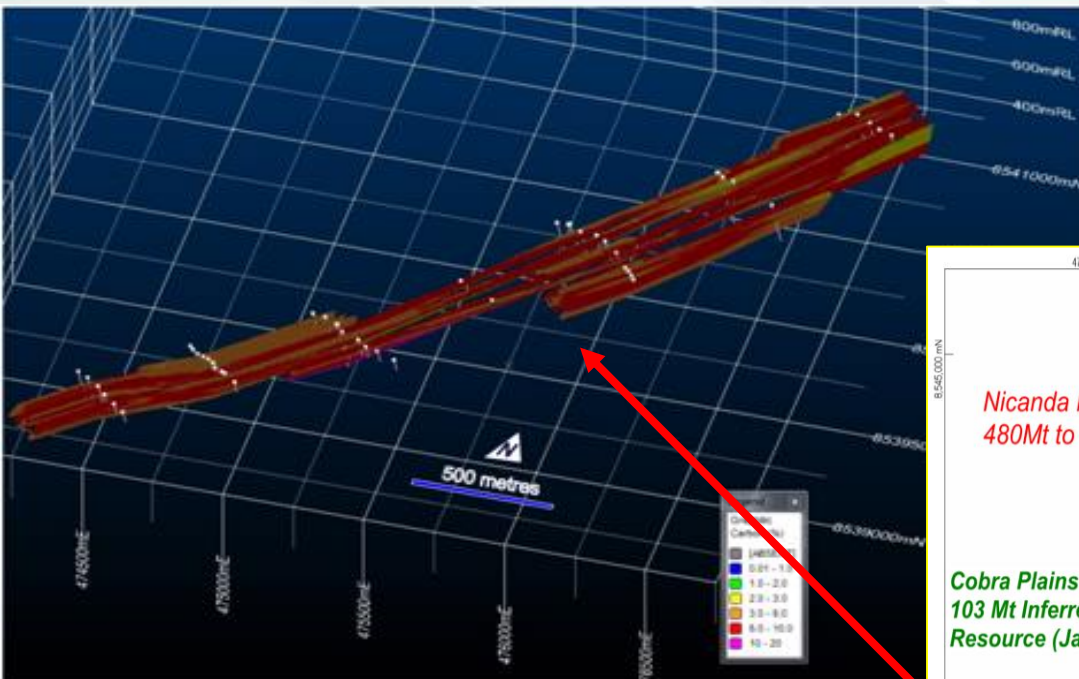
**Image 11.** Location of the exploration prospects on the Nicanda Hill prospect overlain onto the imaged on the 50m conductivity depth slice from the VTEM survey and area topography. The extents of the graphite-bearing zones shown are based on interpretation of the VTEM survey data, outcrop mapping and drill intersections. Also shown are the location of all drill holes completed and the two trench traverses on the Nicanda Hill prospect. Datum: WGS84 Zone 37S



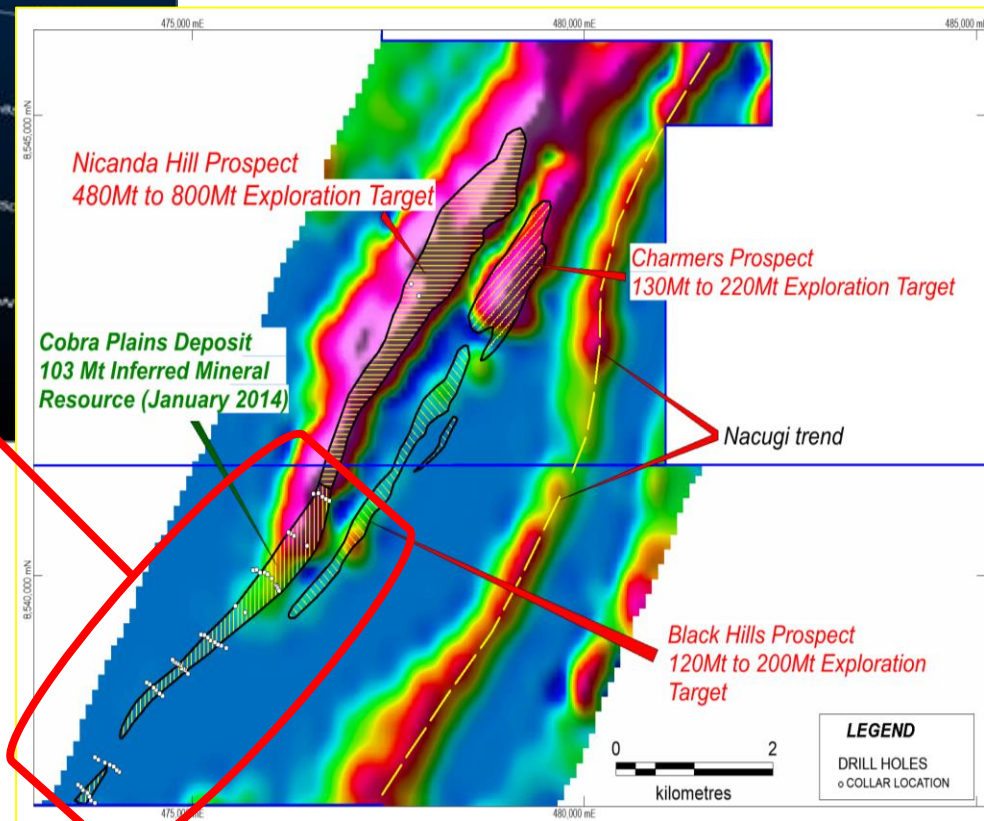
**Image 12.** Cross section showing the geology intersected in RC drill holes GBNC004 to GBNC006. Also included are diamond drill holes TMBD0005 and TMBD0006. The dashed lines depict the general northwest dip of geology in the drill holes confirmed by oriented drill core from both holes shown. Datum: WGS84 Zone 37S



# 103Mt Cobra Plains Deposit



Copy of Image 10 from slide 11.



**Image 13.** Oblique view looking north-northwest over the block model of the Cobra Plains deposit. The Inferred Mineral Resource Estimate comprises 103 Million Tonnes (Mt) at an average grade of 5.52% graphitic carbon, containing 5.7 Mt of graphitic carbon. The model is coloured by estimated graphite carbon grade (%). Image provided by Optiro Pty Ltd. Datum: WGS84 Zone 37S

**Competent Person's Statement**

The information in this report that relates to Mineral Resource estimate at the Cobra Plains deposit on Balama North project is based on, and fairly represents, information and supporting documentation prepared by Mr Mark Drabble, who is a Member of the Australasian Institute of Mining & Metallurgy. Mr Drabble is not a full-time employee of the Company. Mr Drabble is employed as a Consultant from Optiro Pty. Ltd. Mr Drabble 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 Mineral Resources and Ore Reserves (the JORC Code)'. Mr Drabble consents to the inclusion in this report the exploration results and the supporting information in the form and context as it appears.



## KEY FEATURES

- Preliminary partial metallurgical results from the Cobra Plains deposit shows the total carbon (“TC”) recovery of 96%
- The weighted average total graphitic carbon (“TGC”) of the concentrate produced is 94.5%, (including a high of 97.1%)
- The graphite is readily liberated by crushing, grinding, rougher and cleaner flotation with regrind
- Additional metallurgical work underway to refine the recovery process
- Reviewing options to see if the concentrate can be further upgraded using supplementary treatments



**Image 14.** Image of the graphitic material being liberated using a flotation method at the ALS Metallurgy laboratory.



# ANCUABE PROSPECTS





## KEY FEATURES

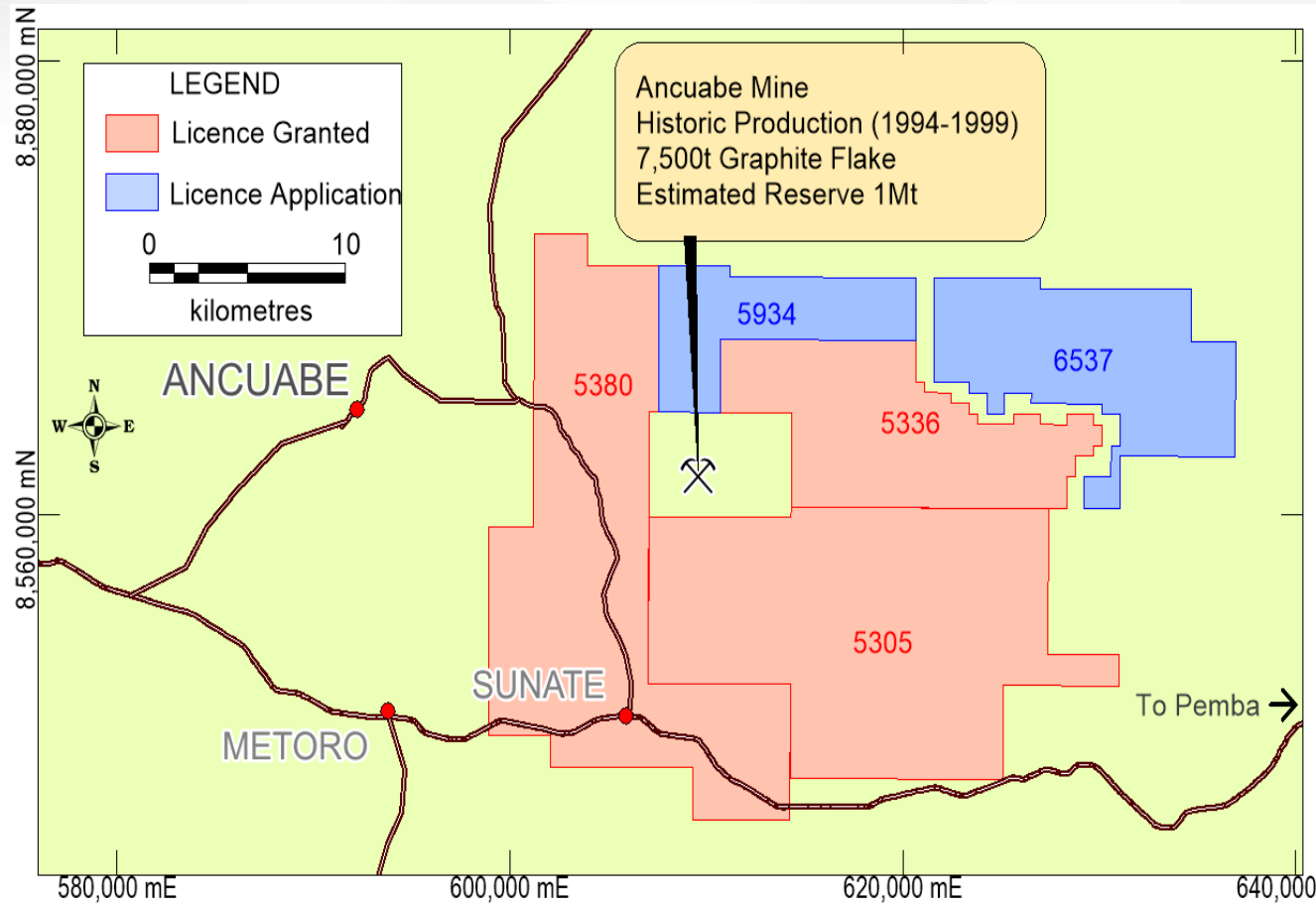


Image 15. Overview of the Ancuabe project exploration license areas

- High grade large flake Graphite identified across project
- Historic Production of Graphite (Ancuabe Mine held by AMG Mining)
- Licenses completing surround Ancuabe Mine
- Numerous Flake Graphite exposures located in north west sector
- Constitute high quality exploration targets to be drill tested
- Easy access to sites
- Multiple target areas identified
- Drill ready target now defined
- Close to infrastructure at Ancuabe and Pemba
- Local landowner support



# Work Program for 2014-2015

Proposed Exploration Plan	2014				2015
	Q1	Q2	Q3	Q4	Q1
Metallurgical testing of 2013 drilling samples	Active	Active			
Initial RC and Diamond Drilling Nicanda Hill		Active	Active		
Mapping, Rock Chip Sampling, Trenching Charmers and Black Hills		Active			
Scoping Study	Active	Active			
Reconnaissance drilling Charmers and Black Hills			Active		
Reconnaissance mapping and rock chip sampling Balama South		Active			
Mapping, Rock Chip Sampling, Trenching at Ancuabe			Active		
Infill drilling at Nicanda Hill			Active	Active	
Inferred Mineral Resource					Active

**Table 1:** The above program is only indicative and timing subject to change depending on exploration results and funding

- **103Mt** Inferred Mineral Resource at Cobra Plains Graphite Deposit (**4<sup>th</sup> Largest**)
- Multiple high grade large flake Graphite and Vanadium mineralisation zones identified throughout the Balama North Project
- 10km strike of high grade flake graphite and vanadium mineralisation located at Cobra Plains Deposit and Nicanda Hill prospects
- Nicanda Hill potential to become substantial, high-grade flake **graphite deposit**
- High grade large flake graphite also identified at Ancuabe Project
- Predicted strong future global demand for flake graphite and vanadium
- Exceptional peer re-rating upside





Company Name	M tonnes (Mt)	%TGC	Mt Contained Graphite Carbon
Syrah Resources	1143.2	10.21%	116.7
Graphite One	284.71	4.50%	12.81
Energizer Resources	124.4	6.34%	7.9
<b>Triton Minerals</b>	<b>103</b>	<b>5.52%</b>	<b>5.7</b>
Mason Graphite	61.89	16.35%	10.12
Zenyatta Ventures	45.2	3.00%	1.36
Northern Graphite	26.5	2.43%	0.64
Kibaran Resources	14.9	10.50%	1.56
Focus Graphite	12.68	14.00%	1.78
Lambo Resources	9.2	5.13%	0.47
Flinders Resources	8.4	9.90%	0.83
Talga Resources	7.6	24.40%	1.85
Strategic Energy	6.6	8.74%	0.58
Stratmin Global Resources	5.7	4.10%	0.23
Archer Exploration	2.6	12.30%	0.27
Lincoln Minerals	2.2	15.10%	0.33

**Table 2.** Summary of publically available resource data for graphite projects identified around the world. Information sourced from the ASX and TSX-V websites and the websites for each company displayed in the table.

## **Alan Jenks - Non Executive Chairman**

Mr. Alan Jenks has over 20 years experience in early stage investments in the junior resource sector. Mr. Jenks's has predominantly focused on companies which have key projects located in the Australian and African continents.

Mr. Jenks obtained a vast knowledge of South African PGM exploration companies in and around the Bushveld complex. Subsequent to this Mr. Jenks in 2001 had the oversight to successfully build a platinum group metals recycling company, Catalytic Converters Recycling Services Ltd ("CCRS"). Mr. Jenks is the Managing Director of CCRS, which is a company that specializes in the extraction and recovery of precious metals from spent catalytic converters.

Mr. Jenks has become a key cornerstone investor in Triton and has actively supported the growth and development of the Company, including with its move into the graphite sector with the acquisition of the key graphite projects in Mozambique. Mr. Jenks continues that support of Triton and has established a large group of UK based investors for the Company.

## **Brad Boyle – Managing Director**

Mr Boyle is the founder of Monolithic Corporate Group which is a Legal and Corporate Compliance service company, based in West Perth. Mr Boyle has extensive experience as legal counsel and company secretary. Previously, Mr Boyle acquired a diverse range of corporate and private practice experience acting for mining, commercial and government clients across a broad range of sectors. He also has extensive litigation experience including representing clients in mediations, Federal, Supreme, District and Magistrates Courts.

Mr Boyle has previously been the Managing Director of Sprint Energy (ASX:SPS) two Not-For-Profit organizations. Mr Boyle is a Chartered Company Secretary, having obtained a Graduate Diploma in Corporate Governance and a Graduate Diploma in Business Administration and is a member of the Australian Institute of Company Directors, WA Law Society and the Australian Corporate Lawyers Association.

## **Alf Gillman – Non-Executive Director**

Mr Gillman has over 30 years of experience as a geologist in gold, base metals and uranium. He has extensive experience in exploration and project development in various parts of the world including Australia, Papua New Guinea, Africa, the United States, Russia and Central Asia.

For most of Mr Gillman's career, he has held senior management positions, including Group Exploration Manager of Harmony Gold and he is a Fellow and Chartered Professional of the Australian Institute of Mining and Metallurgy. Mr Gillman currently serves as Technical Director for Peninsula Energy Ltd (ASX: PEN), Managing Director of the geological consulting firm Odessa Resources Pty Ltd and is Managing Director of the private exploration company, Dakar Gold Pty Ltd.



## Brad Boyle

Managing Director

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Image 14: Rock chips samples from drill hole TMBC0006 showing Graphite and Vanadium at Cobra Plains Prospect

### Competent Person Statement

The information in this announcement that relates to Exploration Results on Balama North project is extracted from the reports entitled ASX Release "Balama North Project "Cobra Plains Prospect" Drilling Intersects 105 Metres of Graphite" dated 14 October 2013, ASX Release "Balama North Exploration License 5966 Granted" created on 21 October 2013, and ASX Release "High Grade Large Flake Graphite Identified at Nicanda Hill" dated 4 November 2013, ASX Release "Triton Takes Majority Interest in Graphite Projects", created on 22 November 2013, ASX Release "Triton Raises \$1.6 Million to Advance Balama North Project" created 6 December 2013, ASX Release "Balama Drilling Intersects 156 Metres of Graphite" created 10 December 2013 and ASX Release "High Grade Graphite Discovery at Nicanda Hill" created 22 January 2014, ASX Release "103Mt Graphite Resource at Cobra Plains" created 26 February 2014, ASX Release "Balama North Project Update" created 5 March 2014, ASX Release "New Potential Graphite Zones Identified At Balama North Project" created 14 March 2014, ASX Release "Metallurgical Results For Balama North" created 15 April 2014, ASX Release "Exceptional Graphite Interceptions At Nicanda Hill" created 19 May 2014 and are available to view on [www.tritonmineralsltd.com.au](http://www.tritonmineralsltd.com.au). The reports were issued in accordance with the 2012 Edition of the JORC 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 announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this announcement that relates to Exploration Results on Ancyube project is extracted from the reports entitled ASX Release "High Grade Large Flake Graphite Identified at Ancyube Project" dated 31 October 2013 and is available to view on [www.tritonmineralsltd.com.au](http://www.tritonmineralsltd.com.au). The reports were issued in accordance with the 2012 Edition of the JORC 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 announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.