

## **Presentation to the South Australian Chamber of Mines and Energy**

Attached please find a copy of the presentation to be delivered to the South Australian Chamber of Mines and Energy tomorrow morning, Friday 28<sup>th</sup> October 2016.

#### **BACKGROUND INFORMATION**

Renascor Resources is an Australian-based company focused on the discovery and development of economically viable mineral deposits. Renascor has an extensive tenement portfolio, holding interests in projects in key mineral provinces of South Australia, the Northern Territory and Western Australia, including significant graphite projects near Arno Bay, South Australia and at Munglinup, Western Australia.

#### FOR FURTHER INFORMATION, PLEASE CONTACT:

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ASX code: RNU

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Renascor Resources Limited ASX code: RNU

# The Siviour Graphite Deposit

**David Christensen** 





Presented to the South Australian Chamber of Mines and Energy 28 October 2016



## Important notices



#### **Forward Looking Statements**

This Presentation may include statements that could be deemed "forward-looking" statements. Although Renascor Resources Limited (the "Company") believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those expected in the forward-looking statements or may not take place at all.

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#### **Competent Persons Statement**

The exploration results in this Presentation, insofar as they relate to mineralisation, are based on information compiled by Mr G.W. McConachy (fellow of the Australasian institute of Mining and Metallurgy) who is a director of the Company. Mr McConachy has sufficient experience relevant to the style of mineralisation and type of deposits being considered to qualify as a competent person as defined by the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC code, 2012 edition). Mr McConachy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## Highlights



#### Recent Drilling Nearly Quadruples Resource

- 60.8 million tonnes @ 7.8% (Total Graphitic Carbon) TGC for 4.7 million tonnes of contained graphite
- Higher-grade mineralisation of 22.2 million tonnes @ 10.0% TGC for 2.2 million tonnes of contained graphite
- Considerable scope to add to resource with follow-up drill program

#### **High Quality Deposit**

- Globally competitive size
- Ideally located in Australia: low sovereign risk jurisdiction
- Unique shallow, tabular orientation delivers potential for low strip ratio, low-cost mining
- In progress metallurgical tests confirm recovery of concentrates to marketable specifications in each of the super jumbo, jumbo, large, medium and fine categories

#### **Material Upside**

- Siviour is a recent discovery and trades at a material discount to its peers
- Several near term catalysts offering scope to align valuation with peers



## Renascor corporate profile



ASX code	RNU
Shares currently on issue	438.1M
Shares to be issued to acquire EPM*	42.0M
Options to be issued to acquire EPM*	15.0M
Fully diluted (after EPM acquisition)*	495.1M
Cash (30 Sep 16)	\$2.1M
Additional placement proceeds**	\$0.9M
Share price (26 Oct 16)	\$0.037
12 month range	\$0.009-\$0.060
Market capitalisation (26 Oct 16)	\$16.2M
Top 20 shareholding (26 Oct 16)	43%
Board shareholding (26 Oct 16)	30%

<sup>\*</sup>Pending shareholder approval being sought at November annual general meeting, Renascor will acquire remaining 51% interest (thereby taking its interest to 100%) in Eyre Peninsula Minerals Pty Ltd (EPM) in exchange for approximately 42M shares and 15M options at \$0.05 (exercisable prior to November 2019). EPM has an option to acquire 100% of Ausmin Pty Ltd, which holds the underlying rights to the Arno Graphite Project.

<sup>\*\*</sup>Amount includes funds received since 30 Sep 16 in connection with underwriting of shortfall of option exercise and with share placement.

## Experienced board & management team



#### Stephen Bizzell, Non-Executive Chairman

Stephen is highly experienced in the fields of corporate restructuring, debt and equity financing, M&A and has over 20 years corporate finance and public company management experience in the resources sector in Australia and Canada. Stephen was a founder and executive director of Arrow Energy from 1999 to until its acquisition in 2010 by Royal Dutch Shell and PetroChina for \$3.5 billion. Stephen is the Chairman of boutique corporate advisory and funds manager, Bizzell Capital Partners and serves as a director of a number of other ASX listed companies.

#### **David Christensen, Managing Director**

David is an experienced mining executive, with recent successful experience managing mining and marketing companies in Australia and the United States. Prior to founding Renascor, David served as Chief Executive Officer of Heathgate Resources and Quasar Resource, where he oversaw the operations of the Beverley uranium mine and the development of the Four Mile uranium mine. David also has extensive marketing and trading experience, including having served as President of Nuclear Fuels Corporation.

#### **Geoff McConachy, Executive Director**

Geoffrey is an accomplished geologist with over thirty years of Australian and international experience in the mining industry assessing a wide range of commodities. Geoffrey is a fellow of the Australasian Institute of Mining and Metallurgy and a former Director of the Uranium Information Centre.

#### Richard (Dick) Keevers, Non-Executive Director

Dick has over 40 years experience in the resource sector, having previously held senior executive positions with Broken Hill South Ltd and Newmont Mining Ltd. His experience includes advancing multiple producing mines from discovery phase through development, including the Telfer gold and copper mine, the Phosphate Hill phosphate mine and the Baal Gammon copper mine. Dick also was a substantial shareholder of and served as an executive director for Pembroke Josephson Wright Limited, an Australian share brokerage firm. Dick has served on boards of several ASX-listed resource companies, and he is currently a non-executive director of Santana Minerals Limited.

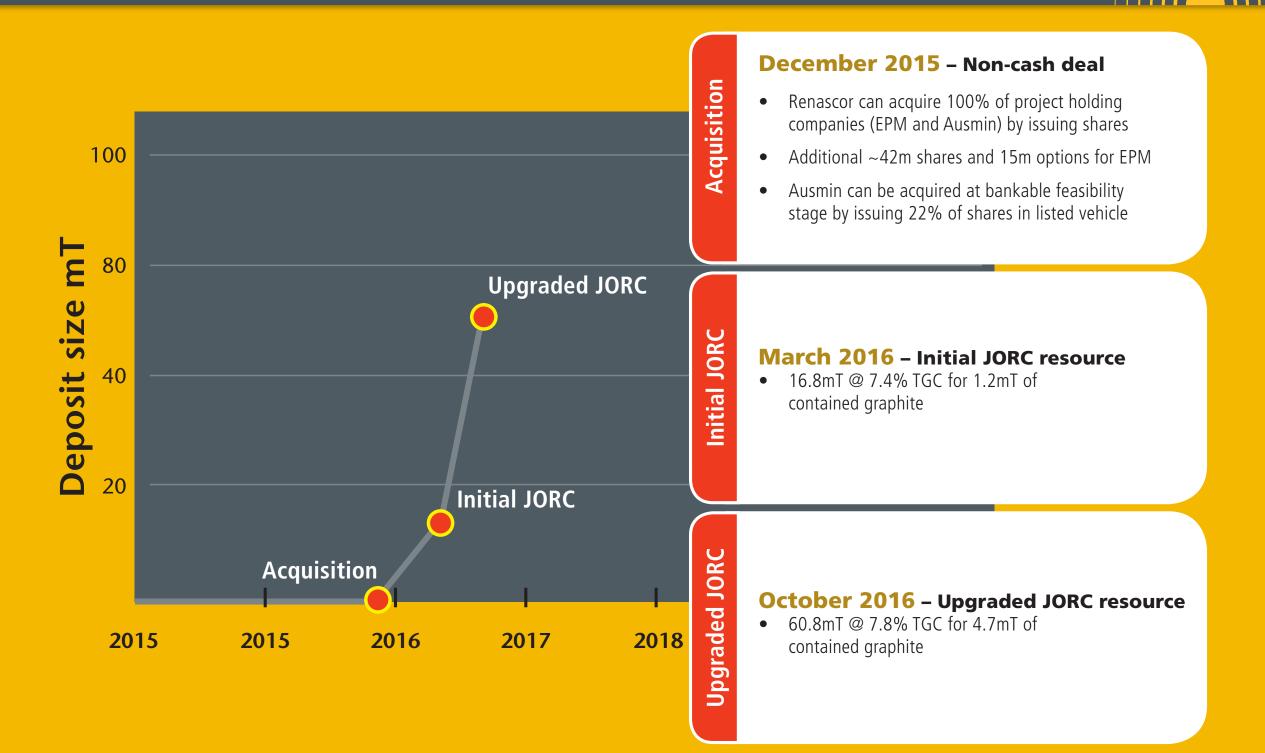
#### **Andrew Martin, Non-Executive Director**

Andrew is an executive with Deutsche Bank with over 15 years experience, predominately advising in the infrastructure, utilities and natural resources sectors. Andrew has a Bachelor of Economics (Hons) from the University of Sydney and is a founder and Alternate Director of ASX listed Stanmore Coal Limited (having been a Director from 2009 to 2014) and unlisted St Lucia Resources International Pty Limited.

#### **Chris Anderson, Non-Executive Director**

Chris is an experienced geophysicist with over 30 years in mineral exploration in Australia (with a focus in South Australia) and abroad. Chris is a graduate of Adelaide University (BSc, Geology and Geophysics) (Hons), and is a fellow of Australasian Institute of Mining and Metallurgy.

## Rapid transition to graphite development



## Siviour graphite deposit



Siviour graphite deposit in South Australia has quickly emerged as a potential commercial graphite development with several key components already established

**Deposit size and quality** 

Australia's largest graphite resource with ample scope to grow to globally competitive scale

- Location
  Secure mining jurisdiction: South Australia
  Near port, rail, established workforce
- Flake size and distribution
  Petrology shows over 60% in super-jumbo (+500μm) category
- Product purity

  Preliminary bench flotation tests confirm recovery of concentrates to marketable specifications in each of the super jumbo, jumbo, large, medium and fine categories; full-scale tests to follow
- Off-take
  Product testing in progress
- Time-frame to production
  Scoping study underway



## Re-rating potential

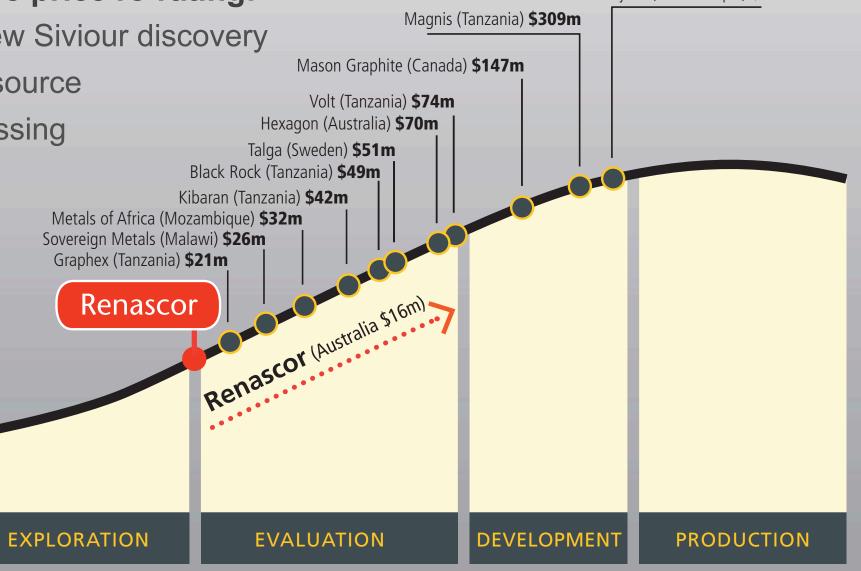


Syrah (Mozambique) **\$1063m** 

Renascor currently trades at a significant discount to its peers on an enterprise value per tonne basis given the recent and rapid progress at Siviour.

#### Potential riggers for share price re-rating:

- Market recognition of new Siviour discovery
- Expansion of Siviour resource
- Definitive mineral processing
- Scoping study

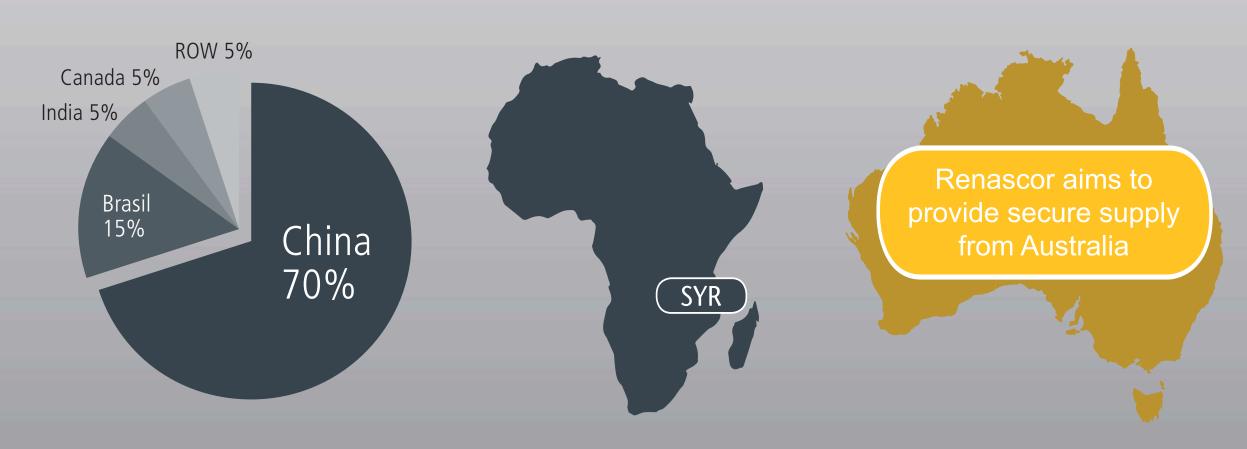


## Why graphite in Australia?



#### Graphite market needs secure supply

- China dominates current supply
- Emerging production largely from Africa



Source: Company data, Macquarie Research, November 2015

## Graphite market

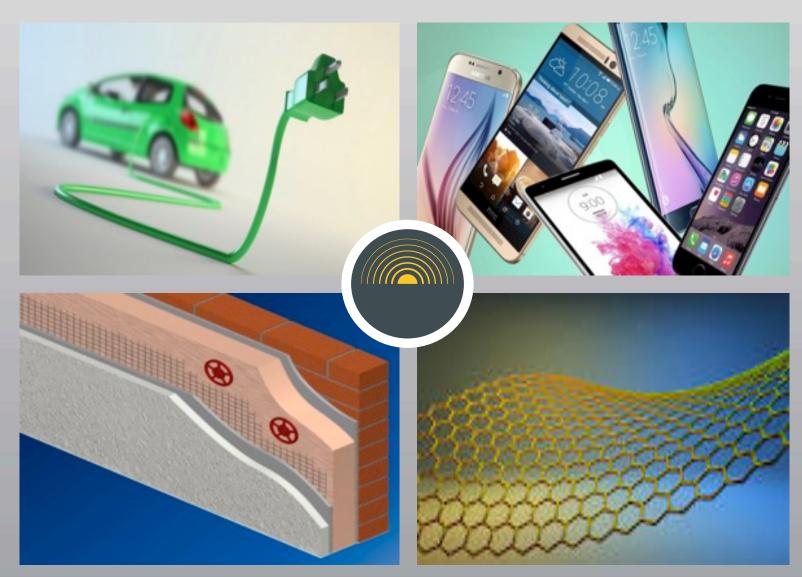


High tech growth areas are adding to historical industrial uses and driving increased demand for

flake graphite

Lithium Ion batteries
Graphene
Expandable graphite
Super capacitors
Green technologies
Pebble bed reactors

Growing demand from new and emerging technologies



## Siviour graphite deposit



#### Located centrally in Eyre Peninsula graphite corridor



Siviour graphite deposit, showing location and nearby graphite deposits

## Siviour graphite deposit: location



#### Optimal location for development and production

#### Favourable jurisdiction

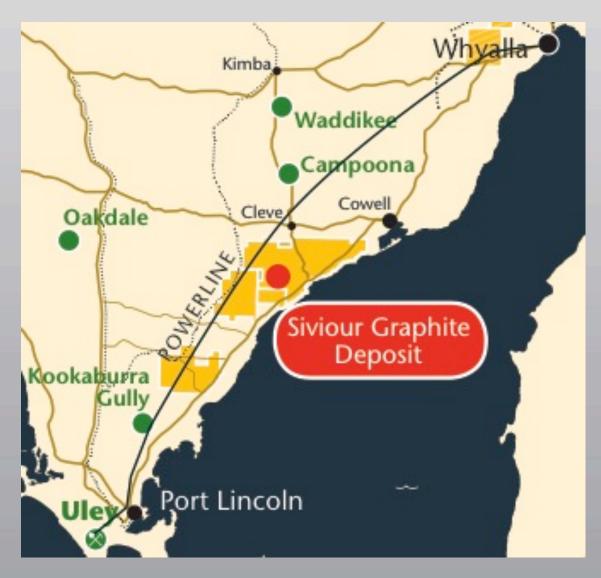
- South Australia
- Supportive government
- Freehold land

#### Port, Road, Rail, Power

- Established ports -- Port Lincoln, Whyalla
- Highway 10km
- Railhead 16km
- Power on main grid

#### **Established workforce**

- Whyalla (23,000), Port Lincoln (15,000),
   Port Augusta (13,000)
- Arno Bay, Cleve, Cowell, Tumby Bay



Eyre Peninsula: established infrastructure

## Siviour graphite deposit



#### Large-scale

JORC-compliant Mineral Resource of **60.8Mt @ 7.8% TGC for 4.7Mt** of contained graphite\*

Higher-grade portion: 22.2Mt @ 10.0% TGC for 2.2Mt of contained graphite\*

Open along-strike

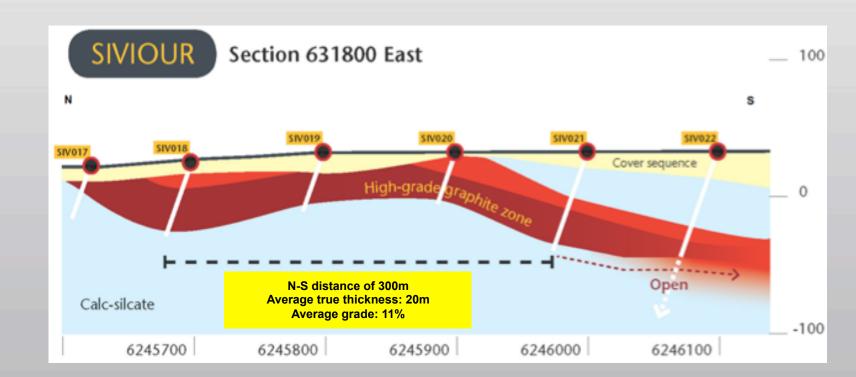
#### **Horizontal orientation**

Attractive potential strip ratios

#### **High-quality flake**

Petrology shows over 80% in the high-value super-jumbo (+500 $\mu$ m), jumbo (+300 $\mu$ m) and large (+180 $\mu$ m) categories

In progress met confirms recovery of marketable concentrate in all flake categories

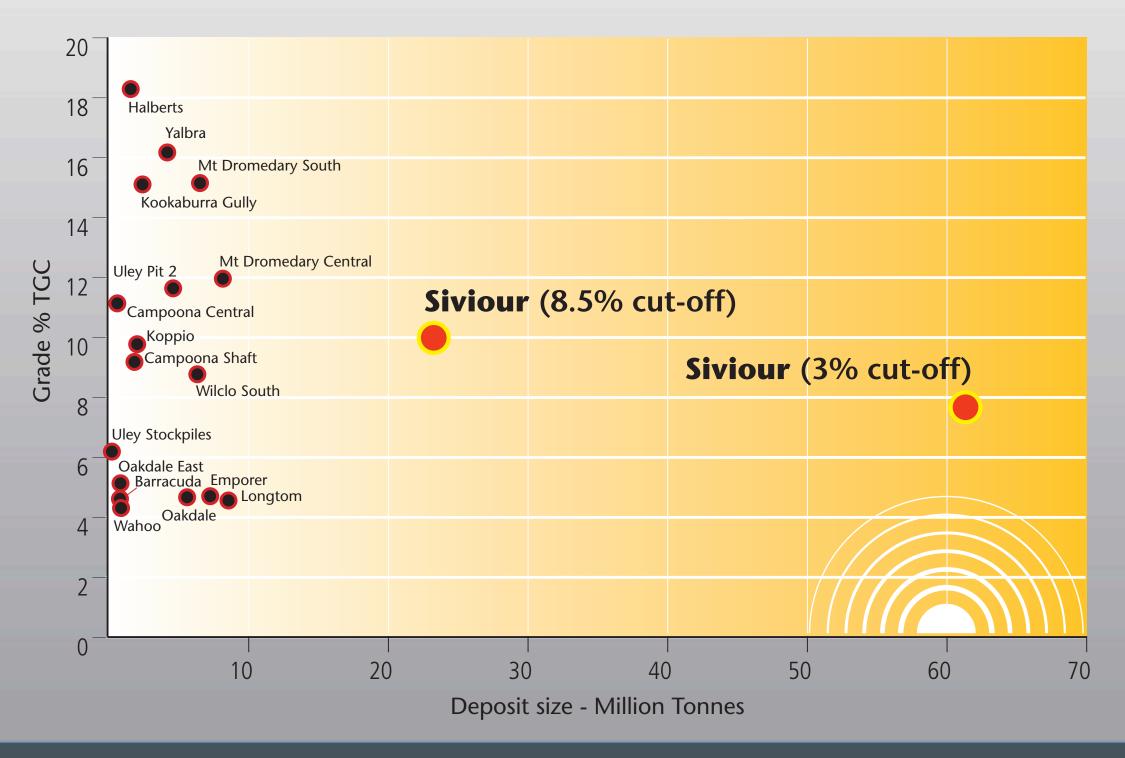




<sup>\*</sup> See Appendix 1 of RNU ASX release dated 26 Oct 2016. The information has not materially changed since first being reported.

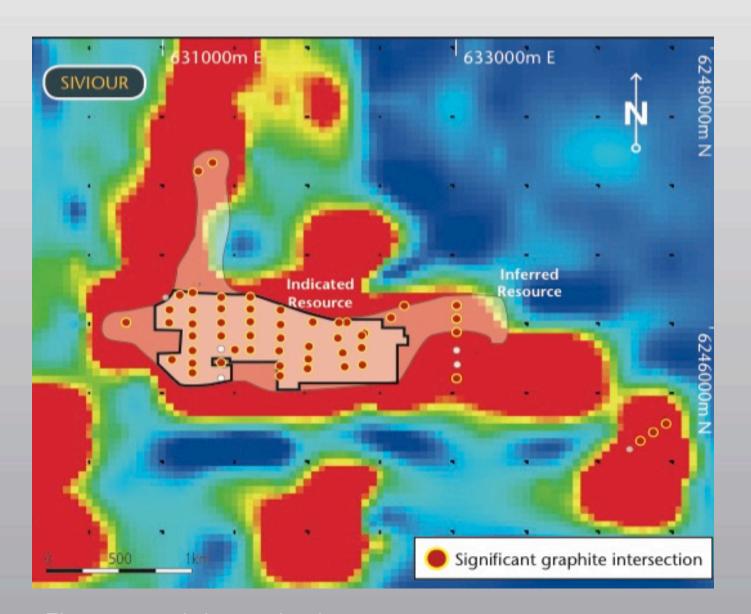
## Siviour is Australia's largest graphite deposit





## Siviour – Ample scope to grow resource





Category	Mineralisation (Mt)	TGC	Contained graphite (Mt)
Indicated*	33.4	8.2%	2.7
Inferred*	27.4	7.4%	2.0
Total*	60.8	7.8%	4.7

## Siviour remains open at shallow depths

Undrilled high conductivity target extending north from western portion of Indicated Resource

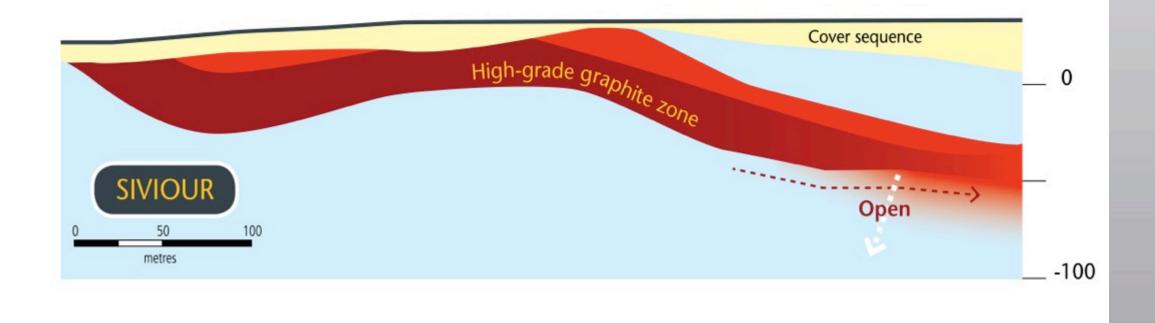
Open along strike to north and east of Indicated Resource

Electromagnetic image showing Indicated and Inferred Resources

<sup>\*</sup> See Appendix 1 of RNU ASX release dated 26 Oct16. The information has not materially changed since being first reported.



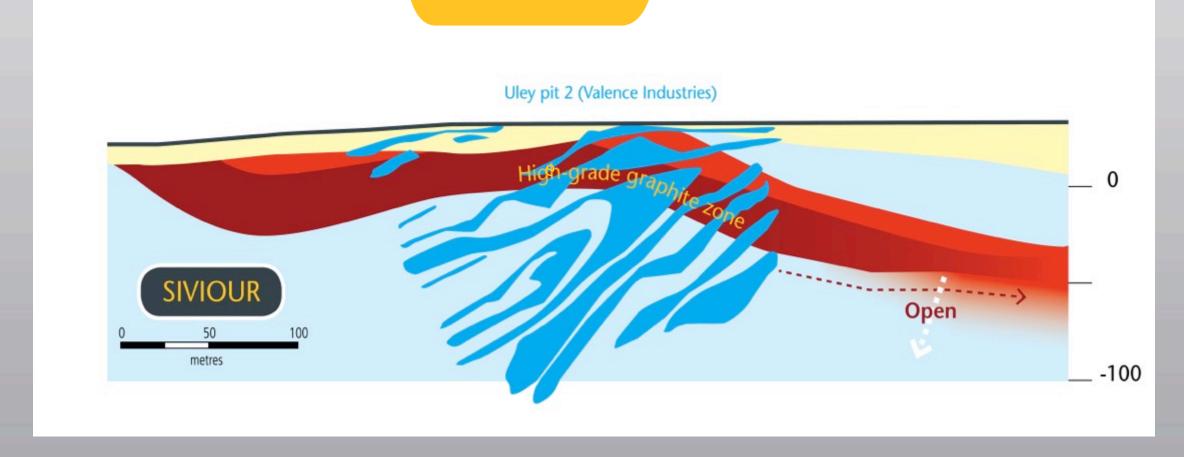
Siviour has unique shallow, flat-lying orientation



Siviour prospect: Geological cross-section for north-south Section 631800E, showing graphite-mineralised zones

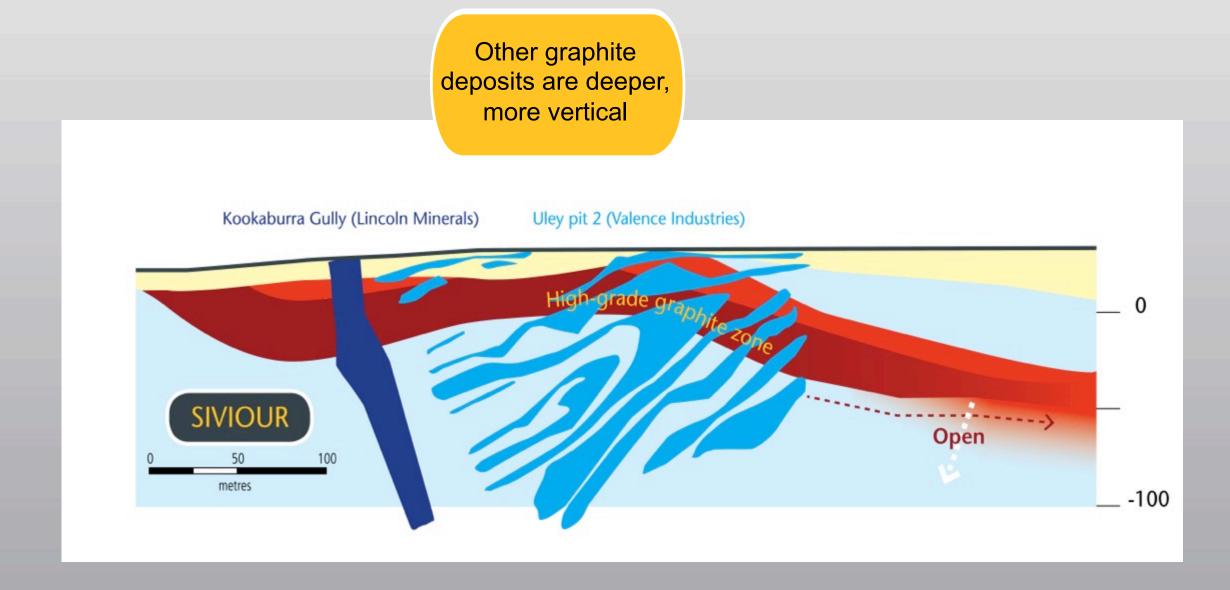


Other graphite deposits are deeper, more vertical



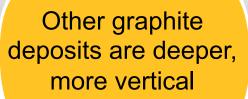
Siviour prospect: Geological cross-section for north-south Section 631800E, showing graphite-mineralised zones

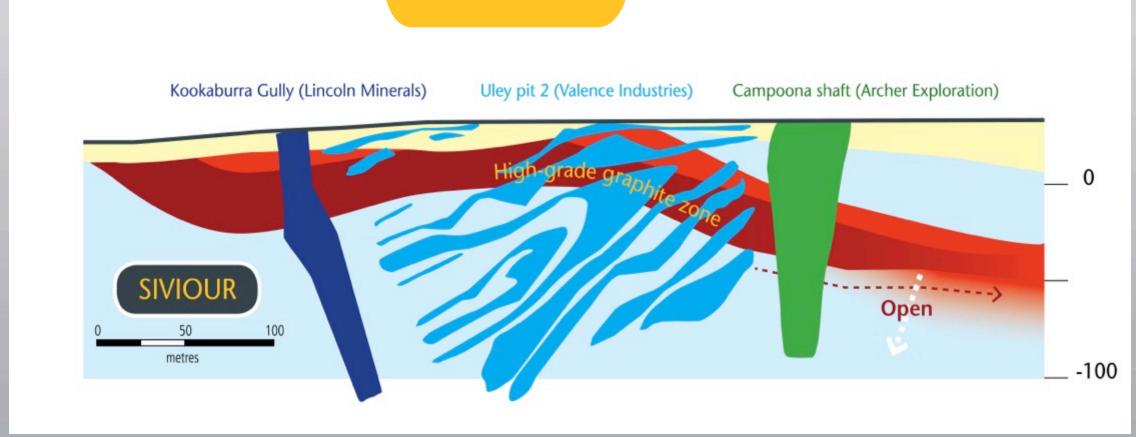




Siviour prospect: Geological cross-section for north-south Section 631800E, showing graphite-mineralised zones



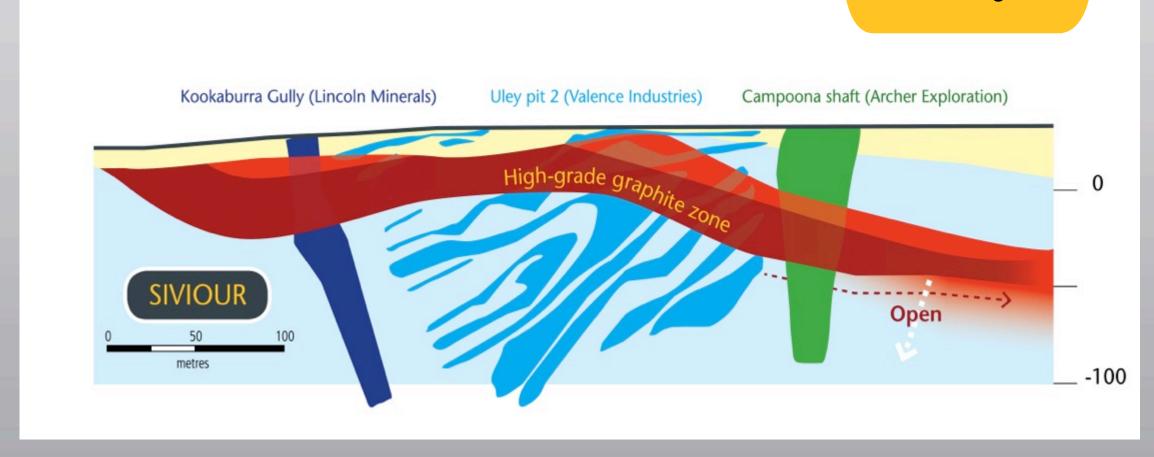




Siviour prospect: Geological cross-section for north-south Section 631800E, showing graphite-mineralised zones



Siviour offers lowerstrip ratio, lower-cost mining



Siviour prospect: Geological cross-section for north-south Section 631800E, showing graphite-mineralised zones

## Siviour Graphite Deposit – Flake size



## Petrological examination shows abundance of flake graphite at Siviour

#### High proportion of coarse flake Siviour high-grade drill samples return:

- 62% in super-jumbo (+500μm) category
- Up to 1,600μm

## Strong basis for producing high quality concentrate at Siviour Comprehensive mineral processing test work, including sighter test work on representative samples from Siviour, currently underway



Petrographic images from Siv014 (17m to 18m)

(source: Pontifex & Associates, 2012)

## Siviour Graphite Deposit – Metallurgy



#### Positive preliminary results

## Simple bench flotation tests on adjacent prospect

- 87% recoveries
- Up to 94.9% purity of concentrates
- Super-jumbo (600μm) graphite

## Tests on Siviour ore currently underway

- Initial results confirm recovery of graphite concentrates to marketable specifications
- Super-jumbo, jumbo, large, medium and fine categories

Ample scope to deliver high quality product



Extra large coarse flakes (>>600µm) from diamond core hole (CRD090) at Siviour prospect

## Forward work programs



Renascor intends to fast-track Siviour through development and into

production

<u>dadad</u>	High-grade graphite Renascor option to purchase Resource delineation drill program Flake size and purity JORC resource
	Mineral processing testing Drilling to expand/increase confidence Scoping study
	Offtake Permitting Feasibility



Construction

**Production** 

## Siviour Graphite Deposit - Conclusions



#### Siviour is large and growing

Australia's largest graphite deposit, with potential to reach globally competitive scale

#### High-quality coarse flake graphite

High proportion of valuable jumbo and super-jumbo flake from petrological samples

#### Potential production from Australia

Offers diversity of supply

#### Multiple near-term catalysts

Siviour is a new discovery, with upcoming work programs offering immediate opportunities for value enhancement



