

**Southern Hemisphere  
Mining Limited**

ARBN: 17 140 494 784

283 Rokeby Road  
SUBIACO, WA  
Australia, 6008

**Postal Address:**  
PO Box 52  
WEST PERTH, WA  
Australia, 6872

Phone: +61 (0) 8 6141 3500  
Fax: +61 (0) 8 6141 3599

**Website:** [shmining.com.au](http://shmining.com.au)

**Directors:**

**Chairman**  
David Lenigas

**Directors**  
Trevor Tennant  
Keith Coughlan

**Company Secretary:**  
Julia Beckett

**Issued Capital:**  
71,636,137

**Corporate Information:**  
**ASX Code:** SUH



**ASX / Media Announcement**

**1 June 2017**

**New Lithium Pegmatite swarms discovered at Marble Bar  
– East Pilbara**

**HIGHLIGHTS**

- **New Lithium bearing pegmatite swarms discovered at Marble Bar.**
- **Lithium bearing pegmatites swarms now identified over a 9 km strike in a 14 km<sup>2</sup> area.**
- **In excess of 120 pegmatites now identified.**
- **187 rock and 112 soil samples submitted for assay and results will be reported as they become available.**

**David Lenigas, Southern Hemisphere Mining's Chairman, said;**

***"This latest exploration programme at our new Lithium JV in Marble Bar has discovered an incredible number of new pegmatites in swarms over an extensive area. I look forward the reporting the assay results when they become available."***

**Southern Hemisphere Mining (ASX:SUH) ("SUH")** is pleased to announce that it has identified a number of significant new Lithium bearing, spodumene and lepidolite mineralised pegmatites at its new Marble Bar Lithium Project Joint Venture. These new pegmatites extend the area of known mineralisation to 14 km<sup>2</sup> and the total strike length to 9.0 km.

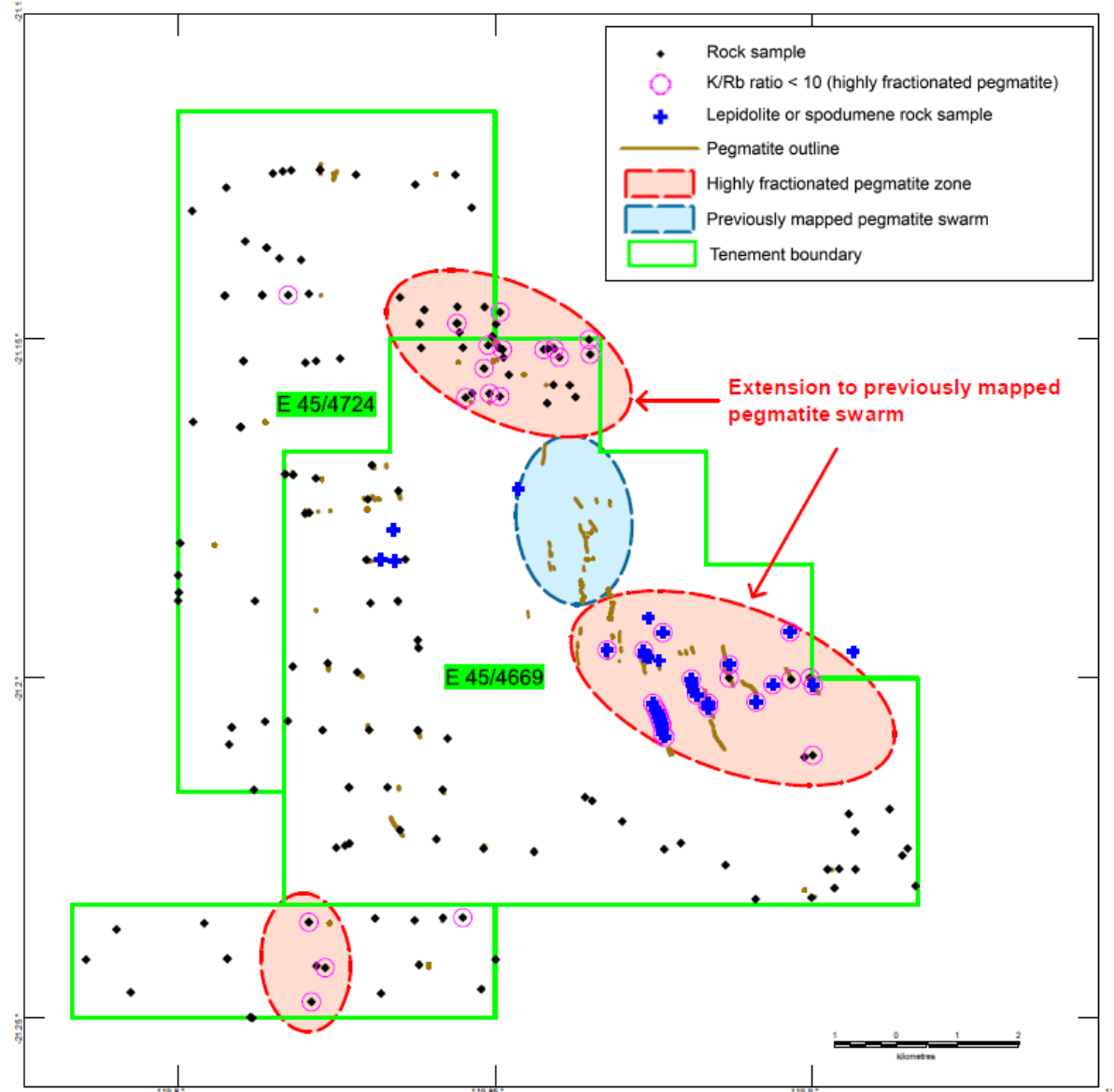
Following a two-week reconnaissance mapping program, covering the Marble Bar Lithium Project's tenements E45/4724 and E45/4669 (Figure 2), a number of samples from pegmatitic outcrops displayed significant lithium bearing signatures, as measured by handheld XRF, as well as visual confirmation of spodumene and lepidolite mineralisation. The previously identified pegmatite swarm was extended to the north and south by 6.3 km (Figure 1). Portable XRF results of the potassium-rubidium ratio (K/Rb) showed the pegmatites to be highly fractionated which is consistent with pegmatites that host lithium bearing minerals.

In addition, the reconnaissance program identified a new area covering 1.5 km in length where the K/Rb ratio indicates highly fractionated pegmatites (Figure 1). Further sampling is warranted across this area.

Sampling of previously mapped pegmatites confirmed lithium mineralisation with abundant spodumene and lepidolite observed. Measurement by portable XRF showed the pegmatites to be highly fractionated with 24 of 31 rock samples collected displaying K/Rb ratios less than 10 as well as highly anomalous values of indicator elements, rubidium and niobium.

A total of 187 rock and 112 soil samples have been dispatched to the laboratory for analysis and results will be reported as they become available.

**Figure 1: Area of newly discovered mineralised pegmatites.**



### Marble Bar Lithium Project:

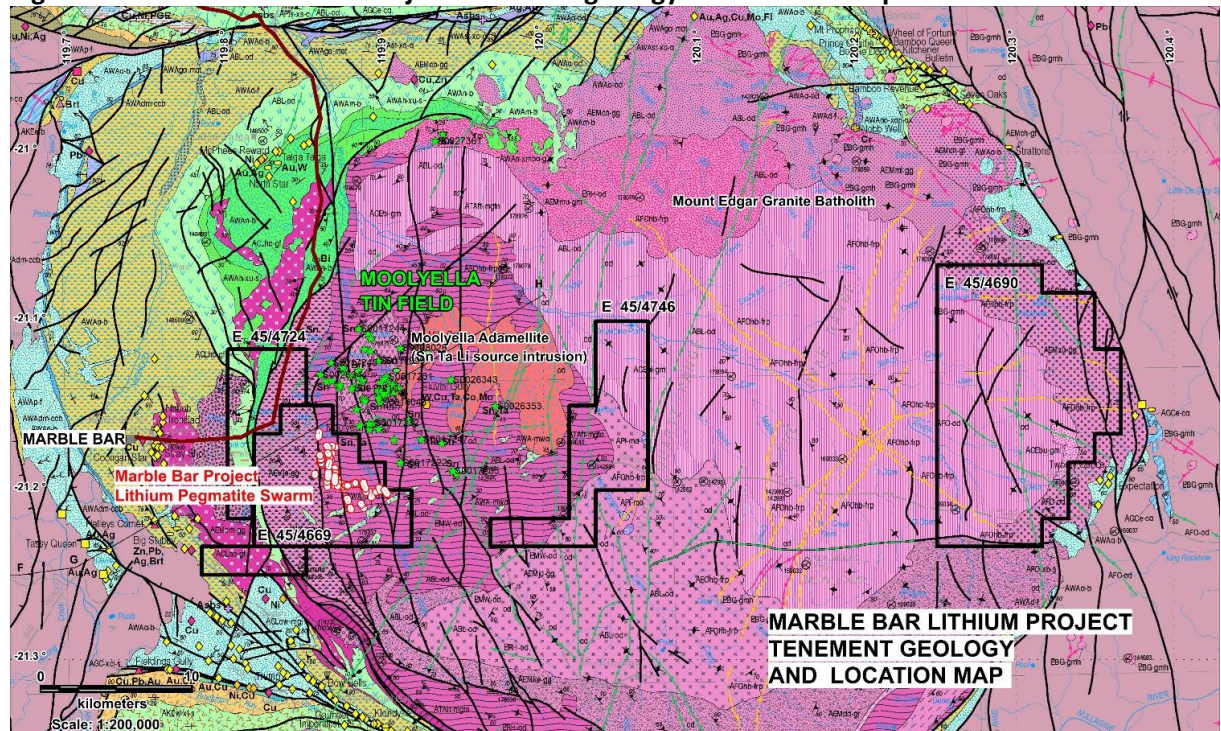
The Marble Bar Lithium project consists of four granted Exploration Licences (E45/4669, E45/4690, E45/4724 and E45/4746) covering 368km<sup>2</sup> located between 10 and 50kms east of Marble Bar in the East Pilbara region of Western Australia.

Marble Bar is located 200kms south east of Port Hedland and approximately 100kms east of the emerging world class Pilgangoora and Wodgina lithium province.

The Marble Bar project contains the first reported significant spodumene discovery in the East Pilbara outside of the Pilgangoora-Wodgina area and is the first discovery of spodumene-rich pegmatites within a granitic host rock.

On 2 May 2017<sup>1</sup>, SUH signed agreements to jointly acquire 100% of both the Marble Bar Lithium Project and Pippingarra Lithium Project in Western Australia (“Projects”) through a 50/50 joint venture with Macarthur Minerals Limited (TSXV:MMS) (“MMS”) from Great Sandy Pty Ltd (‘Great Sandy’), a private Australian company controlled by Denis O’Meara.

**Figure 2: Marble Bar Lithium Project tenement geology and location map.**



**Figure 2: Marble Bar Lithium Project tenement geology and location map.**

#### **BACKGROUND INFORMATION ON SOUTHERN HEMISPHERE MINING:**

Southern Hemisphere Mining Limited (ASX Code “SUH”) is an experienced copper-gold explorer and developer in Chile, South America, the world’s leading copper producing country and one of the most prospective regions of the world for major new copper discoveries. The Company’s focus is on the Llahuin Porphyry Copper-Gold Project where the company has drilled up a significant Copper Gold resource and the Los Pumas Manganese Project.

#### **CONTACTS:**

For further information on this update or the Company generally, please visit our website at

[www.shmining.com.au](http://www.shmining.com.au) or contact:

<b>Investors / Shareholders:</b> Keith Coughlan Director Telephone: +61 (0) 419 996 333 Email: keith@europeanmet.com	Trevor Tennant Director Telephone: +61 (0) 414 895 605 Email: ttennant@shmining.com.au
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<sup>1</sup> Southern Hemisphere Mining Limited news release to ASX date 2 May 2017.

**COMPETENT PERSON / QUALIFIED PERSON STATEMENT:**

The information in this report is based on information compiled by Mr. Brian Richardson, a Competent Person, and who is a Member of The Australasian Institute of Mining and Metallurgy. Mr. Richardson is a consulting geologist to Great Sandy Pty Ltd, the owner and potential vendor of E45/4669. Mr Richardson is a financial beneficiary if Great Sandy Pty Ltd sells the tenement to the Macarthur Minerals and Southern Hemisphere Joint Venture.

Mr. Richardson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Richardson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

**FORWARD LOOKING STATEMENTS AND IMPORTANT NOTICE:**

This report contains forecasts, projections and forward looking information. Although the Company believes that its expectations, estimates and forecast outcomes are based on reasonable assumptions it can give no assurance that these will be achieved. Expectations, estimates and projections and information provided by the Company are not a guarantee of future performance and involve unknown risks and uncertainties, many of which are out of Southern Hemisphere Mining's control. Actual results and developments will almost certainly differ materially from those expressed or implied. Artemis has not audited or investigated the accuracy or completeness of the information, statements and opinions contained in this presentation. To the maximum extent permitted by applicable laws, Artemis makes no

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Investors should make and rely upon their own enquiries before deciding to acquire or deal in the Company's securities.