



## DRILLING INTERSECTS 302m @ 0.64% COPPER EQUIVALENT CONFIRMS HIGH-GRADE CORE AT LLAHUIN COPPER PROJECT, CHILE

*NEWLY ACQUIRED CENTRAL PORPHYRY 'CLONE' HAS POTENTIAL TO DELIVER MATERIAL INCREASE IN RESOURCE TONNAGE*

### Highlights:

- **Outstanding new intersection DDH-LLA-025** received 85m west of previous high-grade hit of 440m @ 0.75% *Copper Equivalent\**, confirming presence of higher grade core in the **Central Porphyry Zone**:-
  - **302m @ 0.64% Cu Eq from 106m including:  
36m @ 1.08% Cu Eq from 236m**
  - **Additional down hole intercept of 56m @ 0.48% Cu (gold results awaited), increasing overall intercept to 358m.**
- Newly acquired “**Ferrocarril**” concessions immediately to the south demonstrate similar geology and footprint to the Central Porphyry Zone – drilling underway.
- Further drilling at the **Cerro de Oro Zone**, 1km south of the Central Porphyry Zone **indicates porphyry mineralisation at depth** – diamond drilling underway to test vertical extension.

International mining company **Southern Hemisphere Mining Limited** (ASX: SUH, TSX-V: SH) (“Southern Hemisphere” or the “Company”) is pleased to report another outstanding broad intersection of **302m grading 0.64% copper equivalent** from its flagship **Llahuin Copper Project** in central Chile, with latest results confirming the presence of a high-grade core within the Central Porphyry Zone.

The new intersection is located 85m west of the high-grade intersection of **440m @ 0.75% copper equivalent** from (DDH-LLA-021) reported on 16 May 2012. Contiguous with this intercept is a further **56m @ 0.48% copper** for which gold analysis results are not yet available, **increasing the overall intercept to 358m.**

Significantly, this new intercept included a high-grade interval of **36m @ 1.08% copper equivalent** from 236m, pointing to the potential for a **significant uplift in the average grade of the Llahuin resource.**



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At the same time, while drilling is continuing to further delineate the high-grade zone, Southern Hemisphere has taken further key steps towards increasing the critical mass of the Llahuin Project with the acquisition of a porphyry “clone” on the newly-acquired **Ferrocarril** tenements immediately south of its current Llahuin tenements. Initial drilling has confirmed that this feature is a dioritic porphyry which appears identical to the Central Porphyry Zone.

Diamond drilling is also underway to test the Cerro de Oro Zone, located 1km south of the Central Porphyry Zone. The drilling here has the potential to significantly boost the resource tonnage at Llahuin.

### Central Porphyry Zone

The extent of the high-grade core zone has been tested with two further drill holes, DDH-LLA-026, 65m to the south of DDH-LLA-021, and DDH-LLA-027, 85m to the east of DDH-LLA-021. Results will be announced once assays are received.

The new results will be incorporated into a resource upgrade to the maiden JORC Measured and Indicated Resource for Llahuin of **106 million tonnes grading 0.4% copper equivalent (0.3% Cu and 0.09 Au g/t) for an estimated 318,000 tonnes of contained copper and 307,000 ounces of gold** (Refer the 3 April 2012 ASX and TSX-V News Release titled Llahuin Project – Maiden Resource).

Highlights from the recent drilling at the Central Porphyry Zone are set out below:

Hole ID	Intersect m	From surface m	% Cu	g/t Au	% Cu Eq*
RC-LLA-087 / DDH-LLA-022	30 68	158 198	0.35 0.27	0.08 0.18	0.41 0.40
Includes	38	226	0.31	0.26	0.50
RC-LLA-088 / DDH-LLA-023	274 44	0 346	0.37 0.27	0.08 0.12	0.43 0.36
Includes	12	346	0.31	0.16	0.42
Includes	10	366	0.32	0.18	0.45
RC-LLA-089 / DDH-LLA-024	200	286	0.32	0.04	0.35
Includes	22	286	0.39	0.03	0.41
Includes	14	336	0.36	0.06	0.40
Includes	22	374	0.35	0.07	0.40
Includes	40	408	0.38	0.04	0.40
Includes	12	474	0.37	0.05	0.41
RC-LLA-097 / DDH-LLA-025 <sup>1</sup>	<b>358</b>	<b>106</b>	<b>0.45</b>	<b>**</b>	<b>**</b>
Includes	<b>302</b>	<b>106</b>	<b>0.44</b>	<b>0.27</b>	<b>0.64</b>
Which includes	18	172	0.61	0.32	0.85
Includes	<b>36</b>	<b>236</b>	<b>0.61</b>	<b>0.65</b>	<b>1.08</b>
Includes	<b>54</b>	<b>300</b>	<b>0.51</b>	<b>0.31</b>	<b>0.73</b>
Includes <sup>1</sup>	<b>56</b>	<b>408</b>	<b>0.48</b>	<b>**</b>	<b>**</b>

\*\*Gold assays from 408m to 464m to be reported once received.



Commenting on the new results, Southern Hemisphere’s Managing Director, Mr Trevor Tennant, said:

*“There may have been a perception that the high-grade 440m intersection in DDH-LLA-021 was a narrow- vein feature. The follow up drill hole DDH-LLA-025, 85m to the south-west, confirms this is not the case and that in fact the Central Porphyry Zone has a high-grade core.”*

*“The impact of these results on the overall grade of the resource at Llahuin will be significant. A priority now will be delineating the full extent of this high-grade core and incorporating the recent high-grade drilling results in an updated resource estimate, which we are aiming to finalise during the September 2012 Quarter.”*

### **Ferrocarril**

During the Chilean concession renewal phase, which takes place in March and April of each year, the Company made applications for exploration concessions with an area of 6km<sup>2</sup> located immediately south and contiguous with the Amapolo exploitation licenses which host the Llahuin Project.

These concessions, held at that time by a Tier 1 mining company, were not renewed by that company and consequently lapsed. As a result, Southern Hemisphere’s applications came into effect giving the Company 100% control over these concessions.

Commenting on Ferrocarril, Mr Tennant said:

*“Many foreign-based mineral explorers are coming into Chile and doing expensive deals. Our Company excels at doing astute deals in tandem with monitoring the concession application system for opportunities.”*

*“We may well look back on this as the moment the Llahuin Project gained critical mass, all without the need to do a deal with a third party.”*

Assays have been received from one drill hole completed to date at the Ferrocarril Zone which intersected a mineralized dioritic porphyry that appears identical to the Llahuin porphyry, with results shown below:

Hole ID	Intersect m	From surface m	%Cu	g/t Au	%Cu Eq*
RC-LLA-105	14	2	0.33	0.11	0.41
	10	36	0.32	0.12	0.41

The Company will gain better understanding of the grade distribution on this porphyry with further drilling.



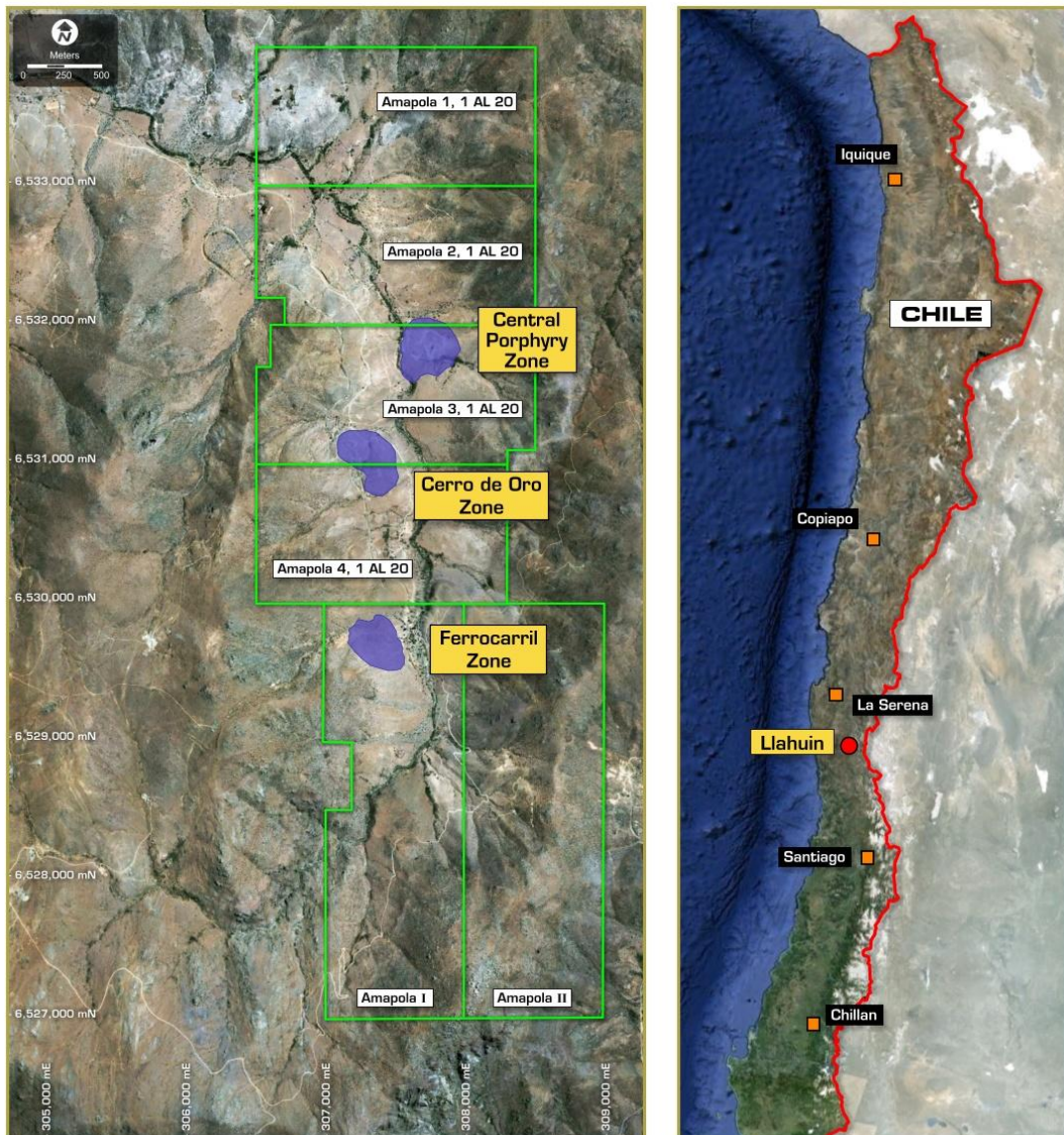


### Cerro de Oro Zone

The vertical extension of the Cerro de Oro Zone, located 1km south of the Central Porphyry Zone, is currently being tested with a diamond drill hole (DDH) as previous holes RC-LLA- 095 and RC-LLA-103 intersected a dioritic porphyry which also appears identical to the Llahuin Porphyry, as shown below:

Hole ID	Intersect (m)	From surface (m)	% Cu	g/t Au	%Cu Eq*
RC-LLA-094	18	6	0.39	0.07	0.44
RC-LLA-095	16	122	0.32	0.11	0.40
RC-LLA-103	52	16	0.30	0.15	0.41

Location Map showing the Llahuin Project: the Central Porphyry Zone; Cerro de Oro Zone and Ferrocarril:



### **New Drill Hole Locations**

All drill hole locations for the Llahuin resource drilling programs are available on the Company's website at [www.shmining.com.au](http://www.shmining.com.au).

### **Geology**

Refer to the 18 July 2011 ASX and TSX-V News Release for Llahuin Copper Project geological information.

### **\*Copper Equivalent (or "Cu Eq")**

The copper equivalent calculations represent the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent copper percentage. These results are exploration results only and no allowance is made for recovery losses that may occur should mining eventually result. It is the Company's opinion that elements considered have a reasonable potential to be recovered as evidenced in similar multi-commodity natured mines.

Copper equivalent conversion factors and long-term price assumptions used are stated below:

Copper Equivalent Formula=  $Cu \% + Au (g/t) \times 0.72662$   
Price Assumptions- Cu (US\$3.40/lb), Au (US\$1,700/oz)

### **Significant Intercepts**

Other holes and intercepts in this News Release that are not highlighted were insignificant or generally had a copper equivalent of less than 0.24%. Anomalous intercepts of less than 10m and 0.40% copper equivalent were also not reported as highlights.

### **Sampling and Analysis Procedures**

5kg samples were taken from each two metre interval. The samples are derived from riffle splitting each intercept. The samples were sent to Andes Analytical Assay Ltda (Chile) in Santiago for sample preparation and analysis. Duplicate samples were taken on a 1 in 20 basis. Analysis was undertaken using fire assay (for gold analysis) with an atomic absorption spectrometry finish. Andes Analytical Assay Ltda (Chile) is an independent full service commercial laboratory accredited under ISO 9001:2008. Standard samples and repeat analyses were used by the laboratory to provide checks on the assay results.

**-ENDS-**

### **About Southern Hemisphere Mining Limited**

Southern Hemisphere Mining Limited is listed on the Australian Stock Exchange (ASX Code "SUH") and the Toronto Stock Exchange –Venture (TSXV Code "SH"). Southern Hemisphere has accumulated a diverse portfolio of assets in **Chile, South America**. The Company's focus is the **100% owned Llahuin Porphyry Project** where the objective is to build a bulk tonnage **Copper/Gold operation**. The Company also holds the **100% owned Chitigua Project**, a 172 km<sup>2</sup> property located on the prestigious Western Fault which hosts Chile's largest copper porphyry deposits. Further details on Southern Hemisphere can be found at [www.shmining.com.au](http://www.shmining.com.au)

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*Competent Person / Qualified Person Statement*

*Mr Eduardo Valenzuela, Director of Andes Consulting Pty Ltd, is a Fellow of the Australasian Institute of Mining and Metallurgy, is a 'Competent Person' as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' and is a 'Qualified Person' under National Instrument 43-101 - 'Standards of Disclosure for Mineral Projects'.*

*Mr. Valenzuela has reviewed the current drilling results and consents to the inclusion of exploration results and other such information in this News Release in the form and context in which it appears.*

