

SOUTHERN HEMISPHERE SET FOR RESOURCE UPGRADE AT LLAHUIN COPPER PROJECT AFTER EXTENDING HIGH-GRADE CORE

More outstanding results support plan for early high-grade plant feed, further enhancing value of rapidly growing Llahuin Copper Project, Chile

Highlights:

- Outstanding new intersections extend known size of the high-grade core at Llahuin Copper Project in Chile
- Results will help underpin resource upgrade scheduled for later this month

Latest results include:

DDH-LLA-027	326m @ 0.56% Cu Equivalent* from 70m
Includes	128m @ 0.80% Cu Equivalent from 200m
DDH-LLA-026	254m @ 0.52% Cu Equivalent from 168m
Includes	192m @ 0.57% Cu Equivalent from 202m
DDH-LLA-025	366m @ 0.63% Cu Equivalent from 102m (Part previously reported)
Includes	324m @ 0.66% Cu Equivalent from 128m
DDH-LLA-021	440m @ 0.75% Cu Equivalent from 2m (Previously reported)
Includes	208m @ 1.20% Cu Equivalent from 108m

Southern Hemisphere Mining Limited (ASX: SUH, TSX-V: SH) ("Southern Hemisphere" or the "Company") is pleased to report that more outstanding intercepts have extended the known size of the higher grade core within the **Central Porphyry Zone** of its flagship **Llahuin Copper Project** in Chile.

The Company considers the results to be important because they will help underpin a resource upgrade scheduled for later this month.

The results also support the plan to feed high-grade material into the plant in the early stages, boosting the project's economics.



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The current JORC Measured and Indicated Resource for Llahuin is **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 (see the 3 April 2012 ASX and TSX-V News Release titled Llahuin Project – Maiden Resource).

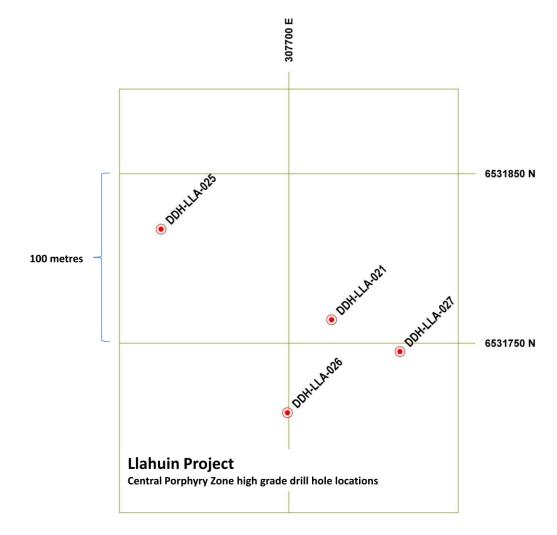
Southern Hemisphere Managing Director Trevor Tennant said the high-grade core was adding substantial value to Llahuin stating:

"Llahuin's worth is growing rapidly on the back of these increases in the size of the high-grade zone"

"The ability to feed high-grade material to a plant in the early stages of production will boost the economics of the project significantly, both by increasing production and reducing costs. We are looking forward to finalising the resource upgrade, reporting further results from this high-grade zone and advancing the Llahuin project."

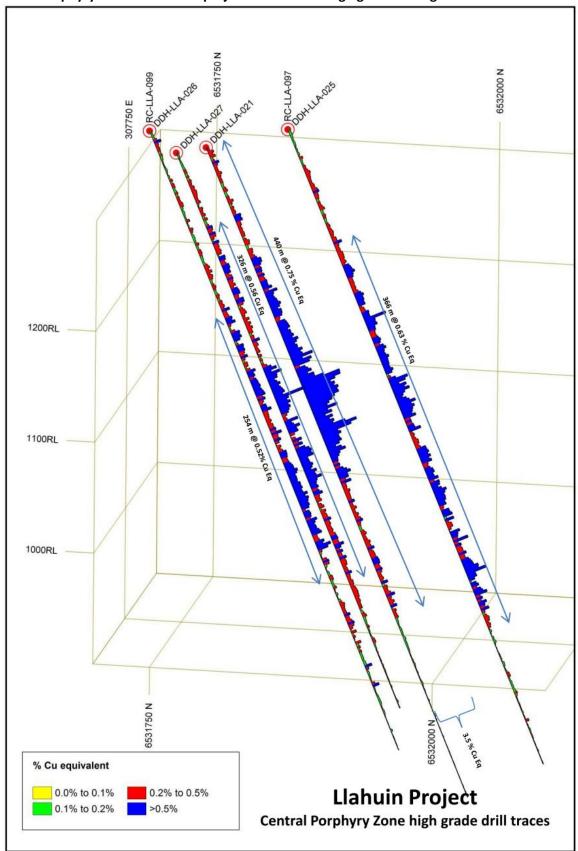
Llahuin Central Porphyry Zone

Llahuin Central Porphyry Zone - location plan of the recent high grade drill holes:









Llahuin Central Porphyry Zone – isometric projection of recent high grade drilling:



Highlights from the recent drilling at the Central Porphyry Zone:

HOLE ID	Intersect (M)	From Surface (M)	%Cu	g/t Au	%Cu Eq*
RC-LLA-097 / DDH-LLA-025 ⁺	366	102	0.44	0.25	0.63
Includes	324	128	0.46	0.28	0.66
Which includes	50	234	0.56	0.55	0.96
RC-LLA-099 / DDH-LLA-026	254	168	0.33	0.26	0.52
Includes	192	202	0.36	0.30	0.57
Which includes	92	302	0.43	0.33	0.67
DDH-LLA-027	326	70	0.48	0.11	0.56
Includes	128	200	0.65	0.20	0.80

⁺Part previously reported without gold assays

Llahuin Central Porphyry Zone – drill core from DDH-LLA-026:







Ferrocarril

The Llahuin Ferrocarril Zone is immediately south and adjacent to the Llahuin Cerro de Oro Zone. Work has progressed in mapping and better understanding the surface expression of the Ferrocarril porphyry. This porphyry is elongated with a surface foot print in the order of 1,200m in length and widths varying from 60m to 200m.

Hole ID	Intersect m	From m	%Cu	g/t Au	%Cu Eq*
RC-LLA-112	78	0	0.28	0.12	0.37
Includes	8	70	0.66	0.26	0.85
RC-LLA-117	14	74	0.43	0.13	0.53
RC-LLA-120	10	38	0.39	0.09	0.46

Highlights from the recent reverse circulation drilling at the Ferrocarril Zone:

The Company plans to gain better understanding of the copper/gold grade distribution at Ferrocarril by completing an induced polarization survey followed by a drill program, which will include diamond drill holes to test at depth.

Cerro de Oro Zone

Llahuin Cerro de Oro Zone is located approximately 1 km south of Llahuin Central Porphyry Zone. Analysis results from a deeper diamond drill hole have not yet been received. Highlights of additional reverse circulation drill holes are shown below:

Hole ID	Intersect (m)	From (m)	% Cu	g/t Au	%Cu Eq*
RC-LLA-111	42	38	0.25	0.15	0.36
Includes	14	48	0.31	0.14	0.42
RC-LLA-115	64	6	0.33	0.04	0.36
Includes	12	6	0.47	0.04	0.50
RC-LLA-115	54	104	0.41	0.05	0.45
Includes	14	140	0.73	0.05	0.77

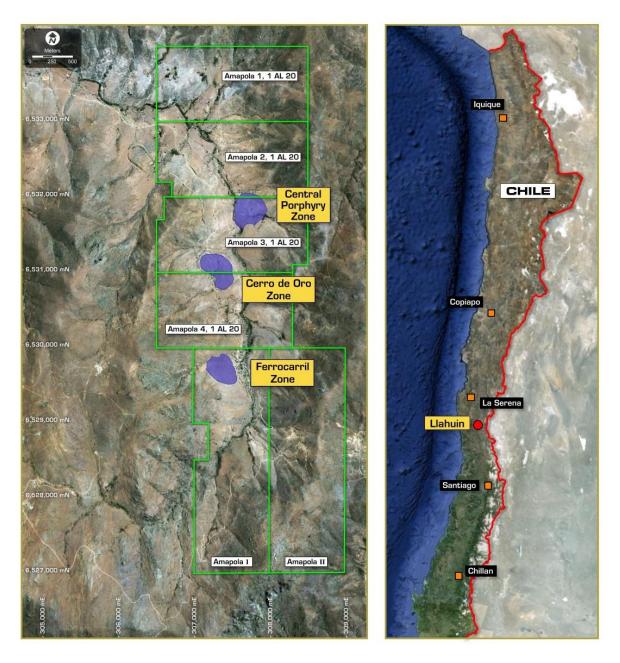
Significant Intercepts

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.





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



Geology

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

New Drill Hole Locations

All drill hole locations for the Llahuin resource drilling programs are available on the Company's website at <u>www.shmining.com.au</u>.





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

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) x 0.72662 Price Assumptions- Cu (US\$3.40/lb), Au (US\$1,700/oz)

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. The cores from DDH holes were halved and each 2m interval of halved core submitted for analysis. 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-

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Competent Person / Qualified Person Statement

Mr Ian Dreyer, Principal Geologist of Andes Mining Services, is a Chartered Professional Member 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. Dreyer has reviewed the design and conduct of this resource drilling campaign, supervised the preparation of the technical information in this release and has the relevant experience and competence of the subject matter.

Mr. Dreyer consents to the inclusion of exploration results and other such information in this News Release in the form and context in which it appears.

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 Copper Project** where the objective is to build a bulk tonnage **Copper/Gold operation**. The Company also holds the **100% owned Chitigua Project**, a 172 km² 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

