



# HIGH GRADE COPPER-GOLD RESULTS MANTOS GRANDES PROJECT, CHILE

*Significant grades up to 6.84% Cu returned from surface channel sampling*

## Highlights:

- 43 channel samples collected from the historical Mantos Grandes mine and two other Prospects.
- Encouraging grades and widths returned, including grades of up to 6.84% Cu and 14.66g/t Au.
- Diamond core drilling is continuing at Mantos Grandes as part of the farm-in joint venture with Cobre Montana NL (ASX: CXB) which can earn a 65% interest in the Project.

Southern Hemisphere Mining Limited (ASX: **SUH**) ("Southern Hemisphere" or the "Company") is pleased to report high-grade copper and gold results from a recently completed surface sampling program at its **Mantos Grandes Copper-Gold Project ("Project")**, located 400km north-east of Santiago in Chile.

The sampling program, together with an ongoing diamond drilling program, is being undertaken by Southern Hemisphere on behalf of its joint venture partner, Cobre Montana NL (ASX: CXB), under farm-in arrangements executed in 2013. 43 channel samples were collected from the immediate surrounds of the historical Mantos Grandes mine, as well as the La Demonía and Agua del Minero Prospects. The ten most significant samples by Au (g/t) of this program are detailed below and full results are appended to this announcement.

Sample N°	Channel width (m)	East	North	Elevation	Area	Au (g/t)	Cu (%)	Ag (ppm)
74484	5	351138	6584296	2543	Mantos Grandes	14.66	6.84	20
74471	1.3	351185	6584099	2552	Mantos Grandes	13.86	3.74	17
74469	2	351597	6583566	2715	La Demonía	10.77	3.39	17
74478	2.5	351209	6584376	2533	Mantos Grandes	6.37	2.52	10
74481	1.5	351209	6584376	2533	Mantos Grandes	6.18	2.42	9
74482	5	351157	6584278	2526	Mantos Grandes	6.12	3.74	18
74486	5	351134	6584326	2541	Mantos Grandes	5.91	3.45	6
74474	1.6	351222	6584376	2516	Mantos Grandes	5.82	3.14	12
74479	2	351209	6584376	2533	Mantos Grandes	5.74	2.79	15
74483	5	351154	6584285	2529	Mantos Grandes	4.90	2.92	16

The recently completed sampling program confirms the presence of copper mineralisation and the potential for very high-grade gold intersections at the Mantos Grandes Project.



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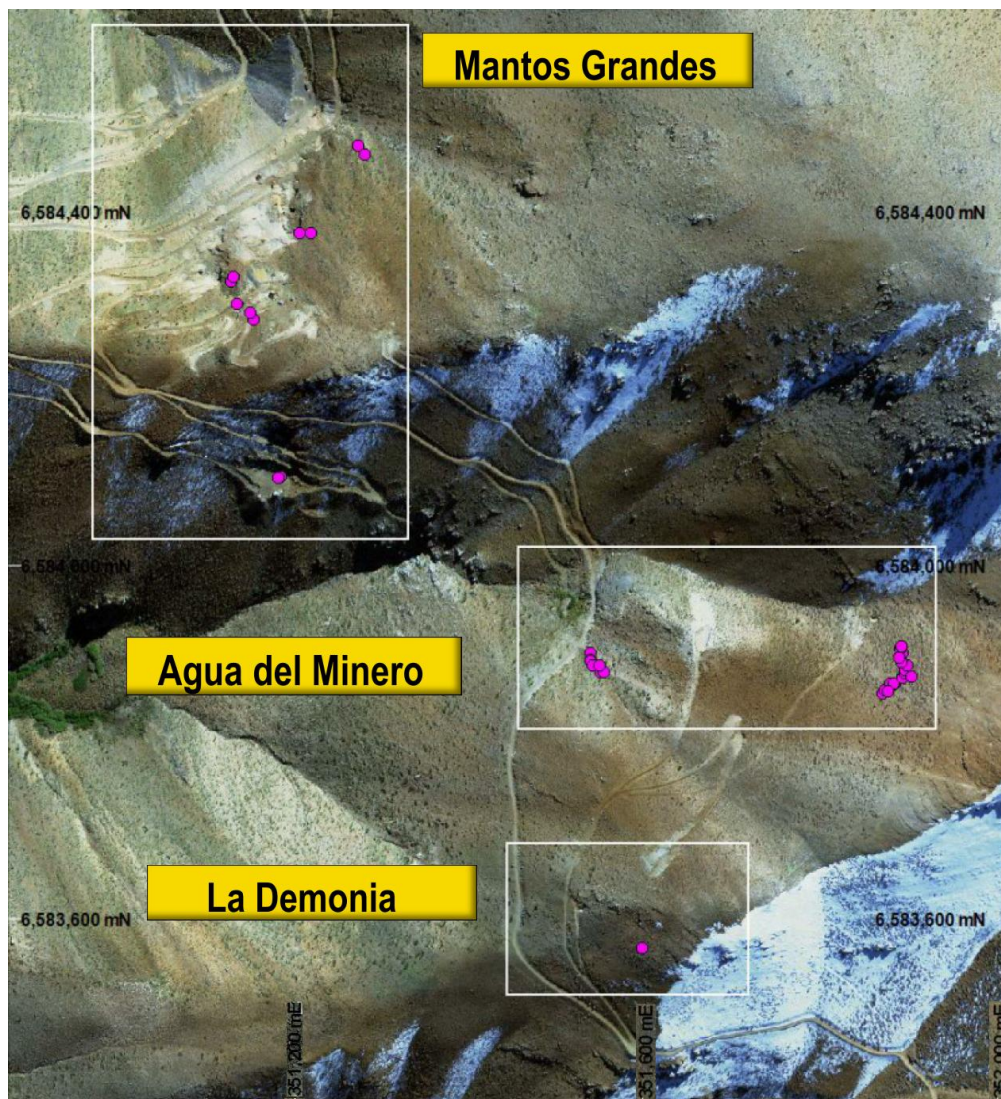
Geological reconnaissance and sampling is continuing at other prospective zones within the Mantos Grandes Project area, including the El Verde copper porphyry target.

Diamond drilling commenced at Mantos Grandes in February 2014. To date, 578m of drilling has been completed and awaits analysis. This program is designed to test five “manto” style copper-gold prospects including the high-grade historic Mantos Grandes copper-gold mine.

Southern Hemisphere’s Managing Director, Mr Trevor Tennant, said ***“the results being achieved at Mantos Grandes were very encouraging and highlighted the prospectivity of the Project for high-grade copper and gold mineralisation.”***

Cobre Montana NL is sole funding exploration with a committed minimum spend of A\$400,000. It can earn a 65% interest in the Mantos Grandes Project for total expenditure of A\$2.85 million, comprising A\$1.5 million of sole funded exploration expenditure and A\$1.35 million in cash payments to Southern Hemisphere. Southern Hemisphere is the project manager.

**Figure 1: Location Map Mantos Grandes Project with Prospect areas and Sample Locations marked with Dots.**



## **Competent/Qualified Person Statement**

The information in this report that relates to copper and gold Exploration Results for the Mantos Grandes Project and Prospects is based on information compiled by Mr Trevor Tennant, who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Tennant 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 Exploration Results, Mineral Resources and Ore Reserves” and a Qualified Person under NI43-101 Standards of Disclosure. Mr Tennant is a full time employee and Managing Director of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. For further information, please refer to the Technical Reports and News Releases on the Company’s website at [www.shmining.com.au](http://www.shmining.com.au).

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## Appendix 1 – JORC Compliance Table 1

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Explanation
<i>Sampling techniques</i>	<ul style="list-style-type: none"> <li>All samples are channel samples from outcrop and pit exposures</li> <li>Channel lengths are measured and recorded</li> <li>Mineralisation and target lithologies are sampled over varying intervals and measured and recorded in the field.</li> </ul> <p>Where the trend of the mineralisation is evident sampling is oriented normal to the strike so as to minimise bias.</p>
<i>Drilling techniques</i>	n/a
<i>Drill sample recovery</i>	n/a
<i>Logging</i>	Sample sheets do not contain a geological description
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <li>Surface geochemistry programs not subject to QA/QC monitoring.</li> <li>The nature and quality of the sample preparation is appropriate for the type of program undertaken.</li> </ul>
<i>Quality of assay data and laboratory tests</i>	<ul style="list-style-type: none"> <li>Samples have been submitted to Andes Analytical Assay, Santiago, Chile</li> <li>Assay Codes <ul style="list-style-type: none"> <li>Au: AEF AAS1EE1Au</li> <li>Ag: 2A-A AAS2E01Ag</li> <li>Cu: 2A-A AAS2E01Cu</li> </ul> </li> </ul> <p>Assay techniques are appropriate for the program.</p>
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> <li>No independent verification of the sampling and assaying is undertaken.</li> </ul> <p>This is appropriate for the qualitative nature of the program.</p>
<i>Location of data points</i>	<ul style="list-style-type: none"> <li>Special location of samples determined by hand held Garmin GPS with a datum conversion to PSAD56 UTM Zone 19S. Accuracy +/- 5m.</li> <li>For overlay onto satellite imagery coordinates have been re-projected to the WGS84 datum.</li> <li>Elevation data is from a 15m contour plan – accuracy +/- 15m</li> </ul>
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <li>The data spacing is appropriate to the program and end use.</li> </ul>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> <li>Where the trend of the mineralisation is evident sampling is oriented normal to the strike.</li> <li>As far as possible this negates bias arising from spatial orientation of the channel sample.</li> </ul>
<i>Sample security</i>	Samples transported from site to laboratory by SUH personnel.
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li>It is not intended that sample techniques, logs, and data be reviewed by an independent audit.</li> <li>This is appropriate given the qualitative nature and end use of the program.</li> </ul> <p>It is not intended that that these results will be used in resource estimation.</p>



## Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section)

Criteria	Explanation
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li>The Mantos Grandes Project located in Limari Province, some 400km northeast of the Chilean Capital, Santiago. In September 2013, Cobre Montana NL entered into a Farm-in Agreement with Southern Hemisphere Mining Limited under which Cobre Montana NL may earn a 65% interest in the Mantos Grandes Project.</li> </ul> <p>The Project consists of 42 concessions, comprised of 8 mining licenses and 34 exploration licenses, encompassing a total area of 8,726 hectares.</p>

## Section 2 Reporting of Exploration Results (continued)

(Criteria listed in the preceding section also apply to this section)

Criteria	Explanation
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li>The deposits have an artisanal mining history dating back to the 1930s followed by intermittent small scale mining between 1976 and 2001.</li> <li>In the year 2000, a major mining house explored the property culminating in a 9 hole reverse circulation drilling program.</li> </ul>
<i>Geology</i>	Mantos Grandes, La Demonía and Agua del Minero are hypogene, skarn related copper gold deposits.
<i>Drill hole Information</i>	N/A
<i>Data aggregation methods</i>	Aggregation methods have not been used.
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> <li>Channel samples have been located to intersect mineralisation and potentially mineralised structural features normal to the local and regional trends.</li> <li>Intercepts herein reported are channel lengths and the true width is not known with accuracy</li> </ul>
<i>Diagrams</i>	See Figure 1.
<i>Balanced reporting</i>	All available assay data is shown in Appendix 2.
<i>Other substantive exploration data</i>	All material exploration data collected during the current campaign that includes diamond core drilling and reconnaissance mapping and sampling will be reported when all results are available and have been analysed.
<i>Further work</i>	Further work will be planned and reported on when all data arising from the current exploration campaign is to hand and has been interpreted.



## Appendix 2 – Mantos Grandes Project: Sample Results

	Sample N°	Channel width (m)	East	North	Elevation	Area	Au (g/t)	Cu (%)	Ag (ppm)
1	74451	5	351869	6583855	2772	Agua del Minero	<0.01	0.01	<1
2	74452	5	351871	6583859	2771	Agua del Minero	<0.01	0.01	<1
3	74453	5	351878	6583862	2766	Agua del Minero	<0.01	0.01	<1
4	74454	2.9	351878	6583866	2763	Agua del Minero	<0.01	0.01	<1
5	74455	1.5	351882	6583866	2762	Agua del Minero	0.14	0.01	<1
6	74456	5	351881	6583866	2761	Agua del Minero	0.02	0.03	<1
7	<b>74457</b>	<b>6</b>	<b>351891</b>	<b>6583872</b>	<b>2760</b>	<b>Agua del Minero</b>	<b>3.60</b>	<b>3.02</b>	<b>11</b>
8	74458	5	351894	6583878	2762	Agua del Minero	<0.01	0.02	<1
9	74459	1.5	351894	6583881	2763	Agua del Minero	0.02	0.05	<1
10	74460	6	351896	6583886	2762	Agua del Minero	0.14	0.21	2
11	74461	2	351890	6583890	2767	Agua del Minero	0.05	0.05	<1
12	74462	5	351889	6583898	2771	Agua del Minero	<0.01	0.01	<1
13	74463	5	351892	6583900	2769	Agua del Minero	<0.01	0.01	<1
14	74464	5	351889	6583906	2768	Agua del Minero	<0.01	0.02	<1
15	74465	5	351890	6583908	2769	Agua del Minero	<0.01	0.01	<1
16	74466	1.5	351888	6583895	2767	Agua del Minero	<0.01	0.01	<1
17	74467	1.5	351901	6583874	2766	Agua del Minero	<0.01	0.01	<1
18	74468	2	351875	6583857	2766	Agua del Minero	<0.01	0.01	<1
19	<b>74469</b>	<b>2</b>	<b>351597</b>	<b>6583566</b>	<b>2715</b>	<b>La Demonía</b>	<b>10.77</b>	<b>3.39</b>	<b>17</b>
20	<b>74470</b>	<b>2</b>	<b>351188</b>	<b>6584100</b>	<b>2554</b>	<b>Mantos Grandes</b>	<b>3.34</b>	<b>3.94</b>	<b>6</b>
21	<b>74471</b>	<b>1.3</b>	<b>351185</b>	<b>6584099</b>	<b>2552</b>	<b>Mantos Grandes</b>	<b>13.86</b>	<b>3.74</b>	<b>17</b>
22	<b>74472</b>	<b>3</b>	<b>351283</b>	<b>6584465</b>	<b>2509</b>	<b>Mantos Grandes</b>	<b>1.24</b>	<b>1.25</b>	<b>3</b>
23	<b>74473</b>	<b>4.5</b>	<b>351275</b>	<b>6584474</b>	<b>2511</b>	<b>Mantos Grandes</b>	<b>1.96</b>	<b>1.59</b>	<b>26</b>
24	<b>74474</b>	<b>1.6</b>	<b>351222</b>	<b>6584376</b>	<b>2516</b>	<b>Mantos Grandes</b>	<b>5.82</b>	<b>3.14</b>	<b>12</b>
25	<b>74475</b>	<b>5</b>	<b>351222</b>	<b>6584376</b>	<b>2516</b>	<b>Mantos Grandes</b>	<b>2.07</b>	<b>1.00</b>	<b>4</b>
26	<b>74476</b>	<b>5</b>	<b>351222</b>	<b>6584376</b>	<b>2516</b>	<b>Mantos Grandes</b>	<b>0.32</b>	<b>0.21</b>	<b>&lt;1</b>
27	<b>74477</b>	<b>1.2</b>	<b>351222</b>	<b>6584376</b>	<b>2516</b>	<b>Mantos Grandes</b>	<b>4.07</b>	<b>1.95</b>	<b>7</b>
28	<b>74478</b>	<b>2.5</b>	<b>351209</b>	<b>6584376</b>	<b>2533</b>	<b>Mantos Grandes</b>	<b>6.37</b>	<b>2.52</b>	<b>10</b>
29	<b>74479</b>	<b>2</b>	<b>351209</b>	<b>6584376</b>	<b>2533</b>	<b>Mantos Grandes</b>	<b>5.74</b>	<b>2.79</b>	<b>15</b>
30	<b>74480</b>	<b>1.8</b>	<b>351209</b>	<b>6584376</b>	<b>2533</b>	<b>Mantos Grandes</b>	<b>3.13</b>	<b>2.18</b>	<b>16</b>
31	<b>74481</b>	<b>1.5</b>	<b>351209</b>	<b>6584376</b>	<b>2533</b>	<b>Mantos Grandes</b>	<b>6.18</b>	<b>2.42</b>	<b>9</b>
32	<b>74482</b>	<b>5</b>	<b>351157</b>	<b>6584278</b>	<b>2526</b>	<b>Mantos Grandes</b>	<b>6.12</b>	<b>3.74</b>	<b>18</b>
33	<b>74483</b>	<b>5</b>	<b>351154</b>	<b>6584285</b>	<b>2529</b>	<b>Mantos Grandes</b>	<b>4.90</b>	<b>2.92</b>	<b>16</b>
34	<b>74484</b>	<b>5</b>	<b>351138</b>	<b>6584296</b>	<b>2543</b>	<b>Mantos Grandes</b>	<b>14.66</b>	<b>6.84</b>	<b>20</b>
35	<b>74485</b>	<b>5</b>	<b>351132</b>	<b>6584321</b>	<b>2532</b>	<b>Mantos Grandes</b>	<b>4.46</b>	<b>3.45</b>	<b>6</b>
36	<b>74486</b>	<b>5</b>	<b>351134</b>	<b>6584326</b>	<b>2541</b>	<b>Mantos Grandes</b>	<b>5.91</b>	<b>3.45</b>	<b>6</b>
37	74487	5	351538	6583900	2724	Agua del Minero	0.04	0.04	<1
38	74488	5	351538	6583893	2721	Agua del Minero	0.23	0.11	<1
39	74489	5	351538	6583892	2717	Agua del Minero	0.02	0.01	<1
40	74490	4	351541	6583887	2714	Agua del Minero	0.58	0.01	<1
41	74491	0.8	351550	6583879	2688	Agua del Minero	<0.01	0.01	<1
42	74492	5	351554	6583879	2661	Agua del Minero	<0.01	0.00	<1
43	74493	5	351549	6583886	2652	Agua del Minero	<0.01	0.01	<1

