

ASX Announcement

17 January 2022

RC Drilling - 11m @ 1.54 g/t gold from 12m at the Colina2 Gold Project - Chile

Highlights

- All assay results have now been received from the 19 hole 2,793m RC powered drill program completed in Q3 2021
- Results include 11m @ 1.54g/t gold and 11m @ 1.53g/t gold from 28m in drillhole 21CLRC013 from 12m depth as well as the previously announced 34m @ 1.39g/t gold in drillhole 21CLRC003 from 24m depth

Colina 2 Gold Project (100%)

- 100% of the assay results have now been received from the 19 hole 2,793m RC program completed in Q3 2021.
- Drilling included a result of 34m @ 1.39g/t gold from 24m depth in drillhole 21CLRC003 (ASX release 13 September 2021), 11m @ 1.54 from 12m depth in drillhole 21CLRC013 and 11m @ 1.53g/t gold from 28m in 21CLRC013.
- Significant results from the Colina2 drilling are presented in Table 1.
- A field visit was completed during December by the Exploration Manager which was useful in checking the position of the drillholes, overall geology of the project area and what is required for the next drilling program at Colina2.
- Historical soil data shows the gold in soils has a correlation with bismuth and a soil sampling program for the northern part of the original Colina2 licence and targets in the new Colina2 licences are planned for Q1 2022.
- Further work is also planned at the old Colo copper-gold mine at Colina 2 see Figure 2 below.



Drillhole ID	Туре	From (m)	To (m)	Width (m)	Gold g/t
21CLRC001	RC	11	13	2	0.41
21CLRC002	RC	5	6	1	1.42
21CLRC003		0	15	15	0.49
Inc		0	2	2	2.27
	RC	24	58	34	1.39
Inc	RC	26	34	8	2.75
		74	81	7	0.93
		88	90	2	0.92
		115	122	7	0.31
21CLRC013	RC	12	23	11	1.54
		28	39	11	1.53

Table 1 Colina2 Significant results

- NB: Results are calculated using a 0.2g/t cutoff for gold and a maximum of 3m internal waste and a minimum grade of final composite of 0.3g/t Au
- Note there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

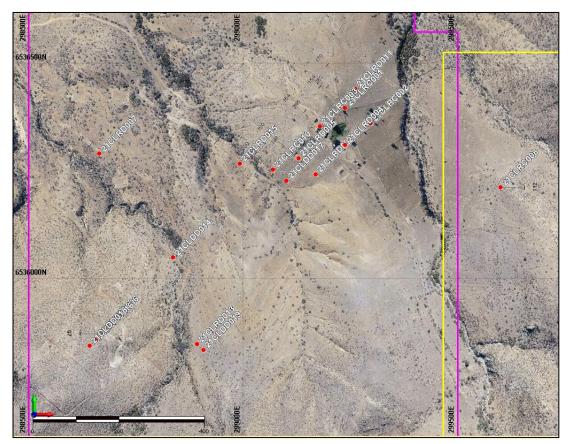


Figure 1 Colina2 Drillhole Location Plan





Figure 2. Diamond drill rig on site at Colina2





Figure 3. Historic Colo Copper-Gold Mine at Colina2 with visible malachite



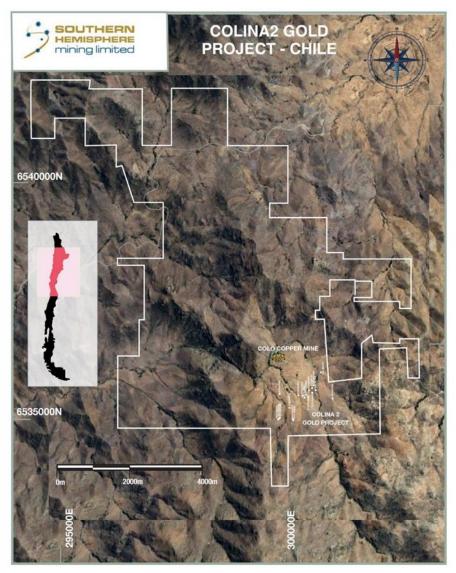


Fig 4. Colina2 Concession. The Colo Copper Mine (historic) and Colina2 Gold Project shown and drill hole locations

Approved by the Board of Directors

CONTACTS:

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Appendix 1 Colina2 Drill Collars

Drillhole	East	North	RL	Depth	Dip	Azimuth
21CLRCO01	299238.714	6536396.788	1278.25	154	-60	310
21CLRCO02	299297.009	6536361.436	1277.14	263	-60	310
21CLRCO03	299179.902	6536353.533	1285.44	154	-60	310
21CLRDO04	299238.923	6536310.217	1283.38	245	-60	310
21CLRCO05	299129.814	6536279.808	1277.54	180	-60	310
21CLRCO06	298668.769	6535870.548	1349.25	97	-60	270
21CLRCO07	298665.937	6536290.579	1248.16	59	-60	310
21CLRCO08	299600.521	6536211.555	1299.06	112	-60	90
21CLRDO09	299169.576	6536242.505	1279.86	198	-60	310
21CLRCO10	299069.998	6536253.878	1265.26	80	-60	310
21CLRDO11	299261.109	6536441.862	1275.87	170	-60	310
21CLRCO12	299401.509	6536670.877	1259.71	200	-60	310
21CLRCO13	298892.73	6535846.614	1307.29	93	-60	310
21CLDDO14	298837.361	6536048.132	1274.45	178	-60	310
21CLRDO15	298992.676	6536267.91	1257.94	149	-60	310
21CLDDO16	298668.769	6535870.548	1349.25	25	-60	310
21CLDDO17	299101.541	6536227.776	1267.85	200	-60	225
21CLDDO18	298645.42	6535841.16	1359.25	50	-60	50
21CLDDO19	298909.22	6535831.04	1311.70	95	-60	50



BACKGROUND INFORMATION ON SOUTHERN HEMISPHERE MINING:

Southern Hemisphere Mining Limited is an experienced minerals explorer in Chile, South America. Chile is 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 projects include the Llahuin Porphyry Copper-Gold Project, the recently identified Colina 2 Gold project nearby, and the Los Pumas Manganese Project all of which were discovered by the Company.

Llahuin Copper Project: Total Measured and Indicated Resources - JORC (2004) Compliant. As announced to the market on 18 August 2013.

Resource (at 0.28% Cu Equiv cut- off)	Tonnes Millions	Cu %	Au g/t	Mo %	Cu Equiv*
Measured	112	0.31	0.12	0.008	0.42
Indicated	37	0.23	0.14	0.007	0.37
Measured plus Indicated	149	0.29	0.12	0.008	0.41
Inferred	20	0.20	0.19	0.005	0.36

Note: *Copper Equivalent ("Cu Equiv"): 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 + Mo % x 4.412 Price Assumptions- Cu (\$3.40/lb), Au (\$1,700/oz), Mo (\$15/lb)

Los Pumas Manganese Project: Total Measured and Indicated Resources - JORC (2004) Compliant. As announced to the market on 25 March 2011.

Resource (at 4% Mn cut-off)	Tonnes Millions	Mn %	SiO ₂ %	Fe ₂ O ₃ %	AI %	K %	P %
Measured	5.27	7.39	57.85	2.78	5.62	2.88	0.05
Indicated	13.06	7.65	55	2.96	5.64	2.92	0.05
Measured plus Indicated	18.34	7.58	55.82	2.91	5.62	2.91	0.05
Inferred Total	5.39 23.73	8.59 7.81	51.44	2.72	5.49	2.69	0.06

Metallurgical studies have demonstrated greater than 38% Mn concentrates are achievable by DMS with low impurities and high silica product.

In relation to the above resources, the Company confirms that it is not aware of any new information or data that materially affects the information in the announcements, and all material assumptions and technical parameters in the announcements underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.



Competent Person / Qualified Person Statement:

The information in this report that relates to copper and gold exploration results for the Company's Projects is based on information compiled by Mr Adam Anderson, who is a Member of The Australasian Institute of Mining and Metallurgy and The Australian Institute of Geoscientists. Mr Anderson 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". Mr Anderson is a consultant for 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.

Table 1

Criteria **JORC Code explanation** Commentary Sampling Nature and quality of sampling (eg cut channels, Riffle split RC samples were collected for each metre techniques random chips, or specific specialised industry of drilling to obtain 1m samples from which approx. standard measurement tools appropriate to the 6kg was split and sent to the ALS laboratory in Chile. minerals under investigation, such as down hole The 6kg sample is crushed to -2mm from which a 1kg gamma sondes, or handheld XRF instruments, sample is split and pulverized to 85% passing -75μm etc). These examples should not be taken as and a 30g charge is taken for standard fire assay with limiting the broad meaning of sampling. AAS finish. Any mutli-element assays are done using Include reference to measures taken to ensure Multi-Element Ultra Trace method combining sample representivity and the appropriate a four-acid digestion with ICP-MS calibration of any measurement tools or systems instrumentation. A four-acid digest is Aspects of the determination of mineralisation performed on 0.25g of sample to that are Material to the Public Report. quantitatively dissolve most geological In cases where 'industry standard' work has been materials. Elements and detection limits are done this would be relatively simple (eg 'reverse presented below. Drillcore is cut in half with a circulation drilling was used to obtain 1 m diamond saw and half the core is sampled on samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other a metre by metre basis. cases more explanation may be required, such REPORTABLE ELEMENTS AND RANGES as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may Au-AA23 Au warrant disclosure of detailed information. ME-MS61 Analytes and Reporting Ranges Lower Upper Lower Upper Ag 0.01 100 Αl 0.01 50 As ppm Ba Bi 10 10000 Be 0.05 1000 ppm ppm Ca % 0.01 0.02 1000 Ce 50 Cd mag 10000 Co 0.1 10000 Cr 1 Cs ppm ppm ppm 10000 Ga Cu 0.2 Fe 0.01 50 Ge ppm 0.05 500 Hf 0.1 500 In ppm K 0.01 10 La 0.5 10000 Li Mg % 0.01 50 Mn 5 100000 Мо ppm

Na

0.01

10 Nb

0.1

500

Ni



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Criteria	JORC Code explanation	Commentary									
			P	ppm	10	10000	Pb	ppm	0.5	10000	Rb
			Re	ppm	0.002	50	S	%	0.01	10	Sb
			Sc	ppm	0.1	10000	Se	ppm	1	1000	Sn
			Sr	ppm	0.2	10000	Ta	ppm	0.05	500	Te
			Th	ppm	0.01	10000	Ti	%	0.005	10	TI
			U	ppm	0.1	10000	V	ppm	1	10000	W
		•	Y	ppm	0.1	500	Zn	ppm	2	10000	Zr
Drilling techniques	 Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face- sampling bit or other type, whether core is oriented and if so, by what method, etc). 	•	RC dri drilling 5.25in diamo this pr	rig u ch dia nd rig ogran	ising a amete g and m of d	a face er bit. I the co rilling.	e sam IQ co ore wa	pling h ore dril is not d	iamme ling us prient	er with sing a ated fo	n a
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	•	record lifts of separ appea	ded to the termination of the te	o enso ween betw be a r	ure re each een ea elation	covery metre ach m nship	to en	od. R sure s There en sa	C drille sample doesr mple)
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	•	The sa and ph provid quanta	notog ed. L	raphs oggin	of co	re sar	nples	were		
Sub- sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all subsampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	•	RC sam which i for eac sample went w can be There i the gra	is the h me s wer et. Fi split s no r	n riffle tre of c re dry a leld du later to relation	split in drilling as hole oplicate oconfi nship b	nto a r the i es were es were rm res	number majorit e stopp e not c sults. en the	red ca by of the bed if the ollecters	lico bag ne RC the RC ed but e size a	g
Quality of assay data and	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 	•	The ass fire ass digestion Appropri	ay wi on te	th AAS	S finish ie.	for go	old whi	ch is a	total	"



		Trining in ribed
Criteria	JORC Code explanation	Commentary
laboratory tests	 For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	were inserted into the sample stream at a rate of 1:10 samples for both standards and blanks. This is considered above industry standard.
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 The company's exploration manager (QP) has made a site visit and inspected the sampling methods and finds them up to industry standard. No twinned holes have been completed as exploration is at an early stage. Logging is completed into standardized excel spreadsheets which can then be loaded into an access front end customized database. There have been no adjustments to the assay data.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 Drill collars were surveyed by a licensed Chilean surveyor using a Total station: Geodimeter 3600 instrument in UTM grid WGS84 19S datum. The topographic survey was carried out from two points known and approved by the National Service of Geology and Mining (Sernageomin), these points are: North Point East Cota HM Hill 2 6,537,206,951 298,961,400 1,247,590 HM Colo 6.537.219,357 298.503,531 1.267,142
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	 Drillhole spacing is approx. 40m spaced holes on 80m spaced sections which is considered by the QP to be good enough for a first pass exploration drilling program. Not applicable too early stage of exploration to complete a resource estimate. No sample compositing has been applied.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	The drilling was done perpendicular to the interpreted strike of the mineralisation to reduce sampling bias. There is not enough information at this early stage of exploration to define the orientation of key mineralised structures.
Sample security	The measures taken to ensure sample security.	 Samples were collected by a qualified consulting geologist and the samples were delivered to the lab by a company employee. Competent Person Reg No 0336.



Criteria	JORC Code explanation	Commentary
Audits or reviews	 The results of any audits or reviews of sampling techniques and data. 	No external audits or reviews were conducted.

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	The Colina2 Project is 100% owned by SUH and there is a 1.5% NSR to Minera Fuega Limitada on the COLINA 2 1 AL 30 licence. The security of tenure is considered excellent as the licence is 100% owned by SUH. Additional licences have been applied for and granted in the project area
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 Previous drilling on the licence before SUH has been done to industry standard.
Geology	 Deposit type, geological setting and style of mineralisation. 	 Exploration is targeting epithermal style-gold style mineralization hosted in Miocene intrusives (quartz diorites).
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	Appendix 1
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	 No data aggregation methods have been used. No metal equivalents have been used.
Relationship between	 These relationships are particularly important in the reporting of Exploration Results. 	Exploration is at an early stage and it is not possible to establish any relationship



Criteria	JORC Code explanation	Commentary
mineralisatio n widths and intercept lengths	 If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	between mineralised widths and intercept widths.
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	 Appropriate maps have been included in the release.(Refer ASX release 13th Sept 2021)
Balanced reporting	 Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	 A range of gold grades were included in the release (Refer ASX release 13th September 2021)
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	 Preliminary Leachwell cyanidation tests were completed on 16 five metre composites of samples from two drillholes (21CLRC003 and 21CLRC013) with gold intercepts contained in the release. Metallurgical QP is reviewing Further testwork is required to provide estimates of potential recovery.
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 Additional soil sampling is planned for the Colina2 Project. Further drilling is planned for the project. Screen fire assays will be completed on all the 16 composite samples to determine the amount of coarse gold present in the material. Results from this will determine what other testwork is required.