



Satellites

# **United Transformation**

Cortadera Discovery
Deal

**ASX code: HCH** 



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# **Transformation Begins**



- 1. The Game Changer Large Discovery Next to Productora
- 2. Corporate Overview One of Few Large ASX Cu Developers
- 3. Productora Critical Mass Arrives
- 4. Cortadera Major Copper-Gold Discovery Unveiled
- 5. High Grade Satellites The Sweeteners
- 6. Copper Time Supply Crunch Coming, M&A Gaining Momentum
- 7. What's Next Road Map for a Global Copper Contender

### 1. The Game Changer

## Large Discovery Next to Productora

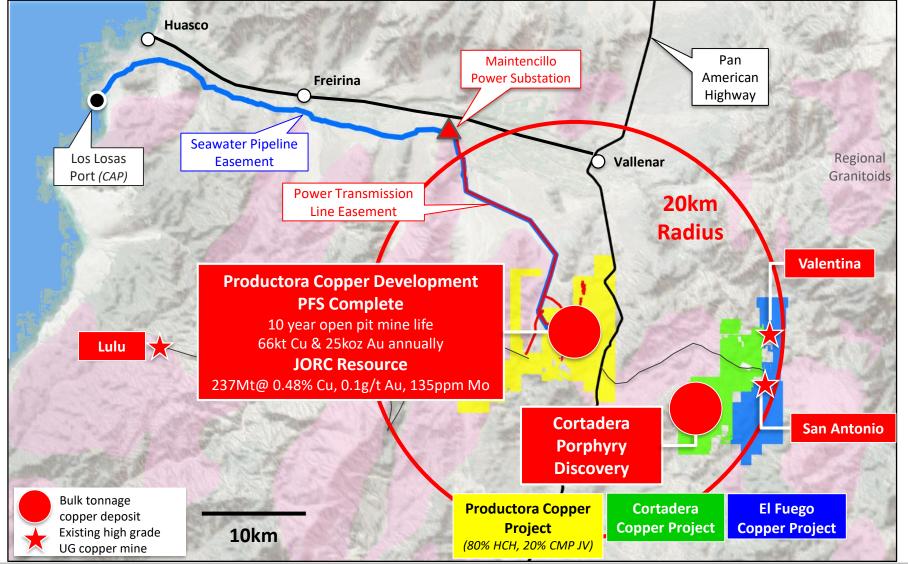
- Terms secured<sup>1</sup> with private Chilean mining group SCM Carola to acquire 100% interest in major copper-gold discovery, named Cortadera
- Located 14km from Hot Chili's flagship Productora copper development on the Chilean coastal range
- Details of the privately owned
   Cortadera discovery have never
   previously been publicly released



"One of the most significant set of coppergold porphyry discovery drill results since SolGold's Cascabal discovery"

# Consolidation of a Copper "Super-hub" in Coastal Chile





# **Cortadera** – A Major Copper-Gold Porphyry Discovery



90m grading 1.0% copper and 0.4g/t gold from 4m down-hole depth,

52m grading 0.9% copper and 0.4g/t gold from 6m down-hole depth,

864m grading 0.4% copper and 0.1g/t gold from 62m down-hole depth (including 348m grading 0.6% copper and 0.2g/t gold),

268m grading 0.4% copper and 0.2g/t gold from 120m down-hole depth (including 42m grading 0.8% copper and 0.4g/t gold),

406m grading 0.4%copper and 0.2g/t gold from 276m down-hole depth (including 146m grading 0.6% copper and 0.2g/t gold),

198m grading 0.6% copper and 0.2g/t gold from 652m down-hole depth

# Option to Consolidate the Entire Cortadera Copper-Gold Discovery



1. Binding MOU executed with SCM Carola to acquire 100% interest in Cortadera (1.5km of the 2km long discovery zone)

Purchase price of US\$30 million, over a 30 month term as follows:

- US\$5 million within 6 months from execution of the MOU.
- US\$10 million no later than 18 months from execution of the MoU.
- US\$15 million no later than 30 months from execution of the MoU.
- 2. Option Agreement executed (US\$1.5 million over 36 month term) with private Chilean group to acquire 100% interest in Purisima Mining Right (500m of the 2km long Cortadera discovery zone)

Project-level, strategic funding discussions underway with key stakeholders in relation to the Cortadera transaction

### 2. Corporate Overview



## One of Few Large ASX Cu Developers

### **Board of Directors**

**Murray Black** Non Exec Chairman **Christian Easterday** Managing Director **Michael Anderson** Non Exec Director **Allan Trench** Non Exec Director Roberto de Andraca Adriasola Non Exec Director Randall Nickson Non Exec Director

### **Capital Structure**

Issued Shares	819.9M
Unlisted Options	11.0 M (30c, exp Jun 2019) 20.0M (3.33c, exp Jun 2019) 69.7M (10c, exp May 2020) 12.0M (7c, exp Dec 2021)
Unlisted 5yr Convertible Notes	113,009 (A\$100 face value) (convert @ 3.33c)
Share Price	A\$0.013
Mkt Capitalisation	A\$10.6 M
Mkt Capitalisatio	A\$16.5M (incl Con Notes, Options)
Cash	A\$0.7M approx A\$0.5M T2 Placement (March 19)

### Substantial Shareholders



**Cheapest Major Copper Developer on ASX** 

A\$17.2M

**Enterprise Value** 

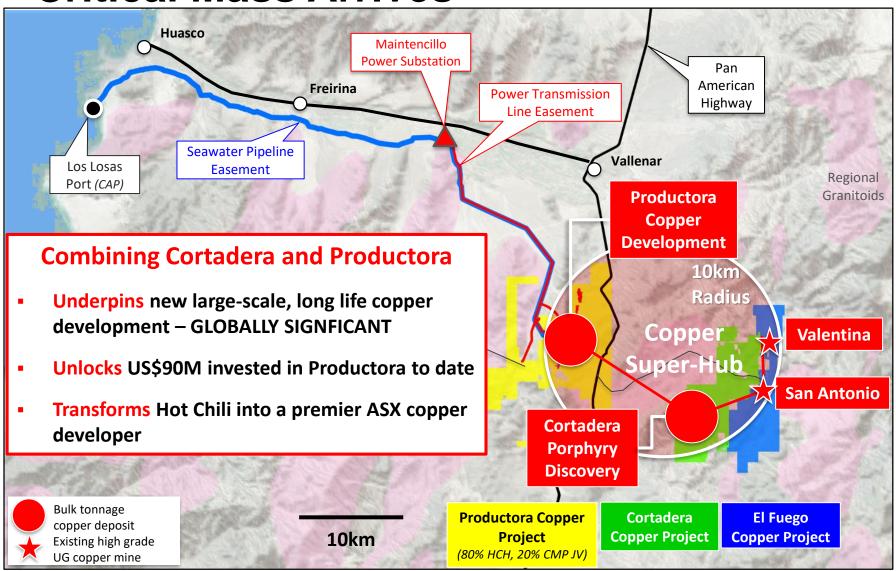
(fully dilute)

A\$2.2M Rights Issue closing

### 3. Productora



## **Critical Mass Arrives**



# Combined Development Leveraging Central Processing & Infrastructure



- 1.5Mt Cu & 1Moz Au Resource base
- 10 Years Mine Life
- 66kt Cu and 25koz Au production annually over first 8 Yrs



- Major porphyry Cu-Au discovery
- Extending from surface
- Pre-resource, large-scale mine life addition



- High grade Cu-Au mine extensional discovery
- Extending from surface
- Pre-resource, high grade blend addition

### 4. Cortadera

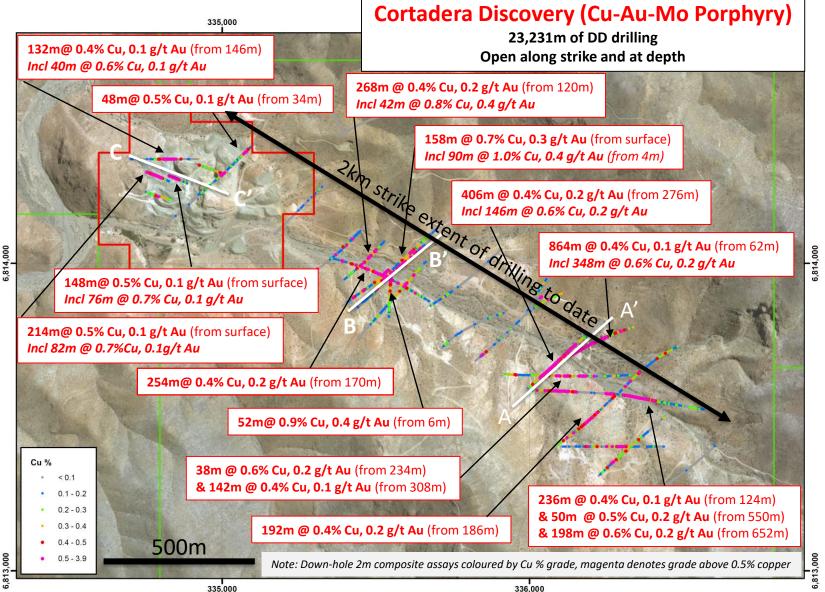


# **Major Copper-Gold Discovery Unveiled**

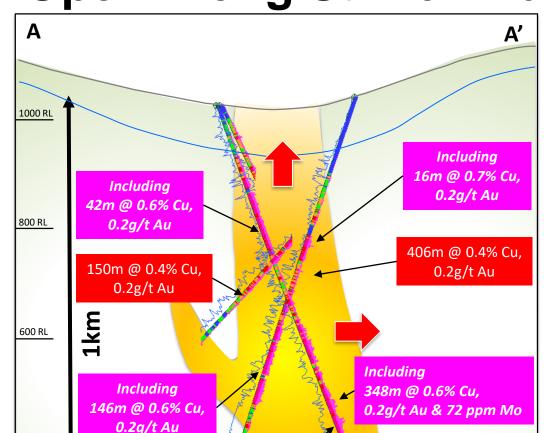


## **World-Class Discovery Drill Results**





## **Open Along Strike And At Depth**



400 RL

200 RL

864m @ 0.4% Cu,

0.1g/t Au

+0.3% Cu mineralisation

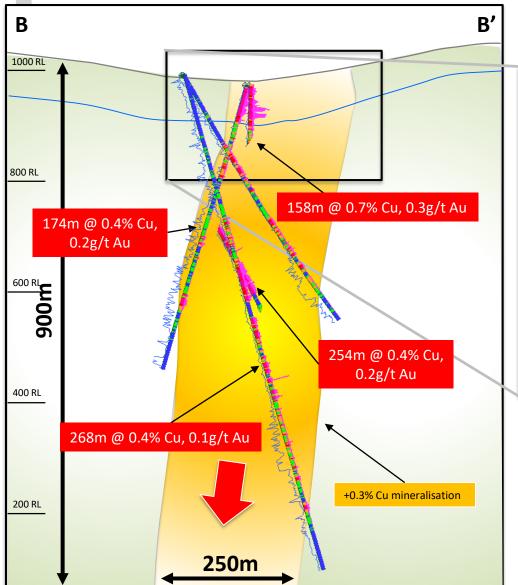
## **Cross Section A**

- Tonalite Porphyry Cluster discovered
- Drill tested from surface to 1km depth
- Higher grade copper and gold drilling intersections remain open – vertically and laterally
- Upper 200m (from surface) of the main porphyry remains undrilled

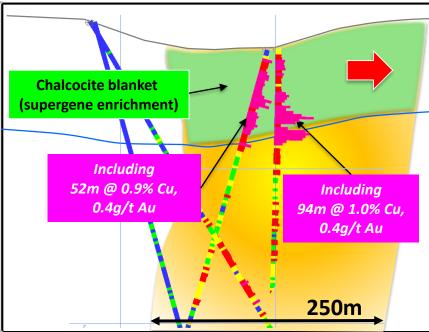
250m

## High-Grade Chalcocite Blanket Recognised



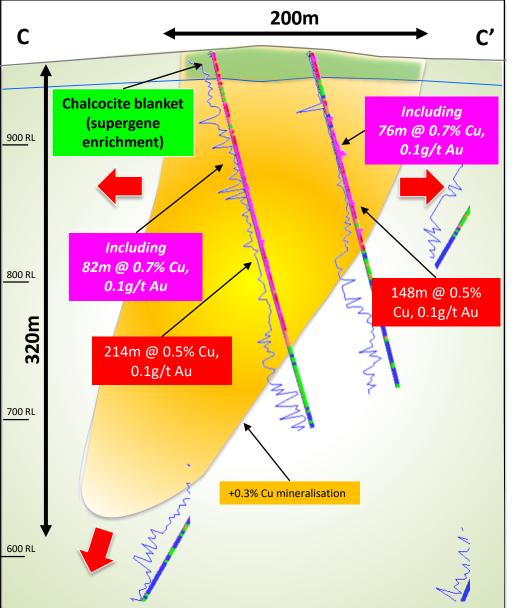


## **Cross Section B**



- Large high-grade enrichment zone only partly drill tested
- Typically grading 1% Copper and 0.4g/t
   Gold from surface
- Potential for a large front-end cash generator

Large Resource Potential From Surface



# Purisima Cross Section C

- Three porphyry centres discovered so far
- Copper oxide to 100m depth and associated with malachite and chalcocite
- Copper sulphide associated with Chalcopyrite
- Amenable to low-strip ratio open pit mining

## **Solid Foundation for First Cortadera Resource Estimate**









- **US\$15M** in drilling and **exploration spent** already (US\$12M in drilling alone)
- 23,231m DD (HQ) half core remaining



### 5. High Grade Satellites



## The Sweeteners

San Antonio Mine

- Historical Production of 2Mt grading 2% Cu and 0.3g/t Au from surface
- 4,600m drilling complete in July 18
- Pre-Resource stage

Valentina Mine

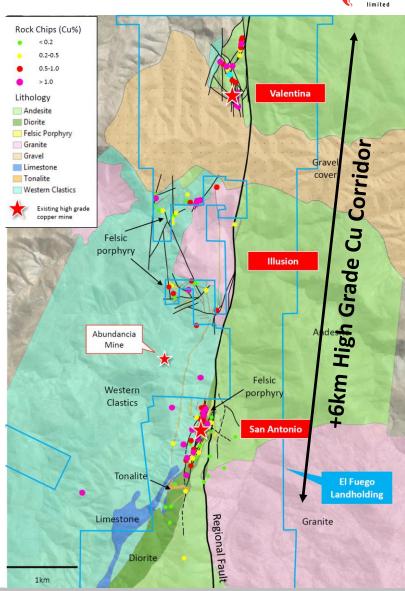
- Drill Success from first 3 holes
- 12m grading 1.5% copper from 28m (including 6m grading 2.7% copper)

**New Targets** 

 6 large surface targets south of San Antonio defined

**Further Acquisitions** 

Further high grade consolidation opportunities being assessed within trucking distance of Productora



# Strong Drill Results at San Antonio First High Grade Satellite Confirmed

- 39 Reverse Circulation (RC) drill holes for approximately 4,600m
   completed across mine area over 700m in July 2018
- Large Extensional Discovery Confirmed at San Antonio
  - 19m grading 2.0% copper from 61m down-hole depth (including 11m grading 2.4% copper)
  - 15m grading 1.7% copper from 80m down-hole depth
  - 13m grading 1.3% copper from 17m down-hole depth (including 5m grading 2.3% copper)
  - 53m grading 0.9% copper from 72m down-hole depth (including 27m grading 1.3% copper)
  - 18m grading 1.3% copper from 52m down-hole depth (including 5m grading 2.1% copper)

# Attractive Satellite Pit Potential at San Antonio Remains Open

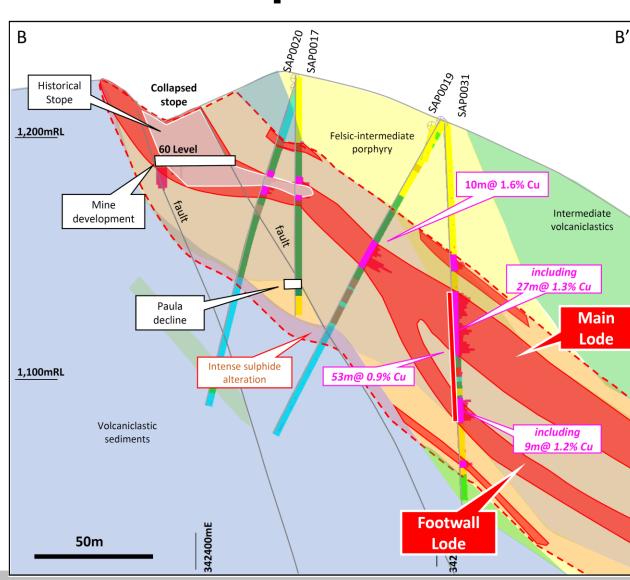


 Shallow-dipping high grade copper mineralisation

 Near true width drilling intersections

 Low indicative stripratios

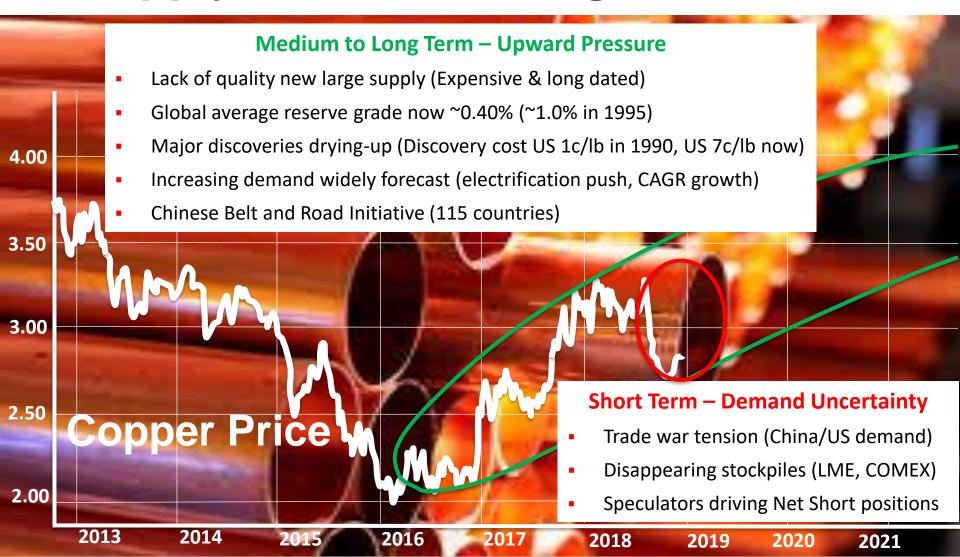
 Attractive for shallow open-cut mining



### 6. Copper Time



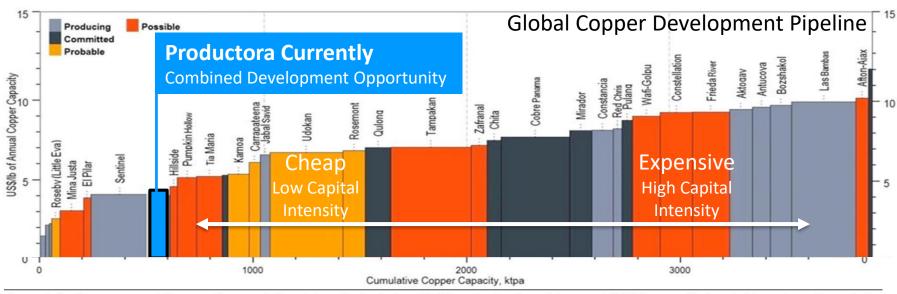
# **Supply Crunch Coming**



# Majors Positioning for New Large-Scale Copper Supply



- BHP increase stake in SolGold to 11% for a total investment of US\$94.2 Million. Preemptive interest from BHP and Newcrest for the Cascabel Cu-Au deposit in Ecuador
- Zijin Minings \$1.4 Billion offer trumps Lundin's offer for Nevsun Resources who control the large-scale Timok Cu-Au deposit in Serbia
- Standout positioning for a large copper development within the global development pipeline for new copper supply



An analysis of new copper mining capacity commissioned since the beginning of 2015. and extending out to around 2022 for committed, probable and possible projects. Median capital intensity is US\$7.15/lb (US\$15,750/t) of annual copper capacity.

Source of above figure: Rex Minerals Investor Presentation April 2018.

### 7. What's Next



# Road Map for a Global Copper Contender

- 1. Strategic funding discussions with key stakeholders underway
- 2. Execution of formal Option Agreement with SCM Carola for Cortadera in coming weeks
- 3. Drill rig being mobilised to Cortadera in coming months

Q2 2019

Commence resource drilling across Cortadera and high grade satellites to deliver mine life extension and high grade feed

Q1 2020

Commence revised PFS based on combined development (Enhanced & Enlarged) utilising central processing and infrastructure

# **Qualifying Statements**



#### Mineral Resource and Ore Reserve Confirmation

The information in this presentation that relates to Mineral Resources and Ore Reserve estimates on the Productora copper project was previously reported in the ASX announcement "Hot Chili Delivers PFS and Near Doubles Reserves at Productora" dated 2<sup>nd</sup> March 2016, a copy of which is available on the ASX website at <a href="www.asx.com.au">www.asx.com.au</a> and the Company's website at <a href="www.hotchili.net.au">www.hotchili.net.au</a>. The company confirms that it is not aware of any new formation or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

### Productora Project Ore Reserve Statement, March 2016 <sup>1</sup>

Ore Type	Reserve Category	Tonnage	Grade			Contained Metal			Payable Metal		
			Cu	Au	Мо	Copper	Gold	Molybdenum	Copper	Gold	Molybdenum
		(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)	(tonnes)	(ounces)	(tonnes)
Oxide		24.1	0.43	0.08	49	103,000	59,600	1,200	55,600		
Transitional	Probable	20.5	0.45	0.08	92	91,300	54,700	1,900	61,500	24,400	800
Fresh		122.4	0.43	0.09	163	522,500	356,400	20,000	445,800	167,500	10,400
Total	Probable	166.9	0.43	0.09	138	716,800	470,700	23,100	562,900	191,900	11,200

Note 1: Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Note 2: Price assumptions: Cu price - US\$3.00/lb; Au price US\$1200/oz; Mo price US\$14.00/lb. Note 3: Mill average recovery for fresh Cu - 89%, Au - 52%, Mo - 53%. Mill average recovery for transitional; Cu 70%, Au - 50%, Mo - 46%. Heap Leach average recovery for oxide; Cu - 54%. Note 4: Payability factors for metal contained in concentrate: Cu - 96%; Au - 90%; Mo - 98%. Payability factor for Cu cathode - 100%.





#### **Productora Project Higher Grade Resource, March 2016**

		Grade				Contained Metal			
		Tonnage	Cu	Au	Mo	Copper	Gold	Molybdenum	
Deposit	Classification	(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)	
	Indicated	166.8	0.50	0.11	151	841,000	572,000	25,000	
Productora	Inferred	51.9	0.42	0.08	113	219,000	136,000	6,000	
	Sub-total	218.7	0.48	0.10	142	1,059,000	708,000	31,000	
	Indicated	15.3	0.41	0.04	42	63,000	20,000	600	
Alice	Inferred	2.6	0.37	0.03	22	10,000	2,000	100	
	Sub-total	17.9	0.41	0.04	39	73,000	23,000	700	
Combined	Indicated	182.0	0.50	0.10	142	903,000	592,000	26,000	
	Inferred	54.5	0.42	0.08	109	228,000	138,000	6,000	
	Total	236.6	0.48	0.10	135	1,132,000	730,000	32,000	

Reported at or above 0.25 % Cu. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Metal rounded to nearest thousand, or if less, to the nearest hundred.

#### **Productora Project Low Grade Resource, March 2016**

			Grad	le		Contained Metal				
		Tonnage	Cu	Au	Mo	Copper	Gold	Molybdenum		
Deposit	Classification	(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)		
	Indicated	150.9	0.15	0.03	66	233,000	170,000	10,000		
Productora	Inferred	50.7	0.17	0.04	44	86,000	72,000	2,000		
	Sub-total	201.6	0.16	0.04	60	320,000	241,000	12,000		
	Indicated	12.3	0.14	0.02	29	17,000	7,000	400		
Alice	Inferred	4.1	0.12	0.01	20	5,000	2,000	100		
	Sub-total	16.4	0.13	0.02	27	22,000	9,000	400		
Combined	Indicated	163.2	0.15	0.03	63	250,000	176,000	10,000		
	Inferred	54.8	0.17	0.04	43	91,000	74,000	2,000		
	Total	218.0	0.16	0.04	58	341,000	250,000	13,000		

Reported at or above 0.1% Cu and below 0.25% Cu. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Metal rounded to nearest thousand, or if less, to the nearest hundred. Metal rounded to nearest thousand, or if less, to the nearest hundred.

# **Qualifying Statements**



#### **Competent Person's Statement**

#### **Exploration Results**

Exploration information in this Presentation is based upon work undertaken by Mr Christian Easterday, the Managing Director and a full-time employee of Hot Chili Limited whom is a Member of the Australasian Institute of Geoscientists (AIG). Mr Easterday has sufficient experience that 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' (JORC Code). Mr Easterday consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

#### **Mineral Resources**

The information in this Presentation that relates to the Productora Project Mineral Resources, is based on information compiled by Mr J Lachlan Macdonald and Mr N Ingvar Kirchner. Mr Macdonald is an employee of Hot Chili Ltd and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Kirchner is employed by AMC Consultants (AMC). AMC has been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Project Mineral Resource estimates. Mr Kirchner is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and is a Member of the Australian Institute of Geoscientists (AIG). Both Mr Macdonald and Mr Kirchner have 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' (the JORC Code 2012). Both Mr Macdonald and Mr Kirchner consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

#### **Ore Reserves**

The information in this Presentation that relates to Productora Project Ore Reserves, is based on information compiled by Mr Carlos Guzmán, Mr Boris Caro, Mr Leon Lorenzen and Mr Grant King. Mr Guzmán is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM), a Registered Member of the Chilean Mining Commission (RM- a 'Recognised Professional Organisation' within the meaning of the JORC Code 2012) and a full time employee of NCL Ingeniería y Construcción SpA (NCL). Mr Caro is a former employee of Hot Chili Ltd, now working in a consulting capacity for the Company, and is a member and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Registered Member of the Chilean Mining Commission. Mr Lorenzen is employed by Mintrex Pty Ltd and is a Chartered Professional Engineer, Fellow of Engineers Australia, and is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr King is employed by AMEC Foster Wheeler (AMEC FW) and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). NCL, Mintrex and AMEC FW have been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Project Ore Reserve estimate. Mr. Guzmán, Mr Caro,Mr Lorenzen and Mr King have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which they are 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 Guzmán, Mr Caro,Mr Lorenzen and Mr King consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

## **View Across Cortadera**





## **View Across San Antonio**







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# View Across Productora

