

AN EMERGING COPPER DEVELOPER **ADVANCING WITH THE GLOBAL SHIFT** TOWARD ELECTRIFICATION AND **DECARBONIZATION** 

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Joanne C. Freeze, P.Geo is the Qualified Person for all Information included herein.

## **ALTA COPPER - WHY INVEST?**



## Advanced Development Stage Project

- > One of the world's largest undeveloped copper projects not held by a major
  - Cañariaco Norte Resource (See Note 1): 9.3B lbs Cu, 2.14M oz Au, 59.4M oz Ag Measured & Indicated, 2.7B lbs Cu, 0.54M oz Au, 18.1M oz Ag Inferred
  - Cañariaco Sur Resource (See Note 1): 2.2B lbs Cu, 1.2M oz Au, 15.0M oz Ag, 18.9M lbs Mo Inferred
- $\triangleright$  2022 Preliminary Economic Assessment ("PEA"): NPV<sub>(8%)</sub> = \$1.01B NPV at \$3.50/lb Cu, IRR=17%, Low CapEx of \$1.04B
- > US\$150M of Cumulative Expenditures to date drilling, metallurgical test-work, various engineering studies (previously advanced to Pre-Feasibility)
- > Project significantly de-risked and positioned to take advantage of the current copper cycle -limited work is required to rapidly advance project
- > 3<sup>rd</sup> party validation: Whittle Consulting ("Whittle") and Fortescue Ltd. (ASX:FMG, Market Cap US\$55B) who hold 31% of shares outstanding
- > Top 10 Project with potential to be acquired by third party RFC Ambrian

## New Strategy

- > Drilling Significant upside remains based on recent 3D Geological Modelling Last Drilled in 2013 Total Cumulative drilling to date of 85,000 meters
- > Daylight value through market awareness, corporate strategy with a primary focus on project execution
- > Project Value Add / Advance Community Relations after extended care and maintenance period/ Capital Markets and Value Add Transactions

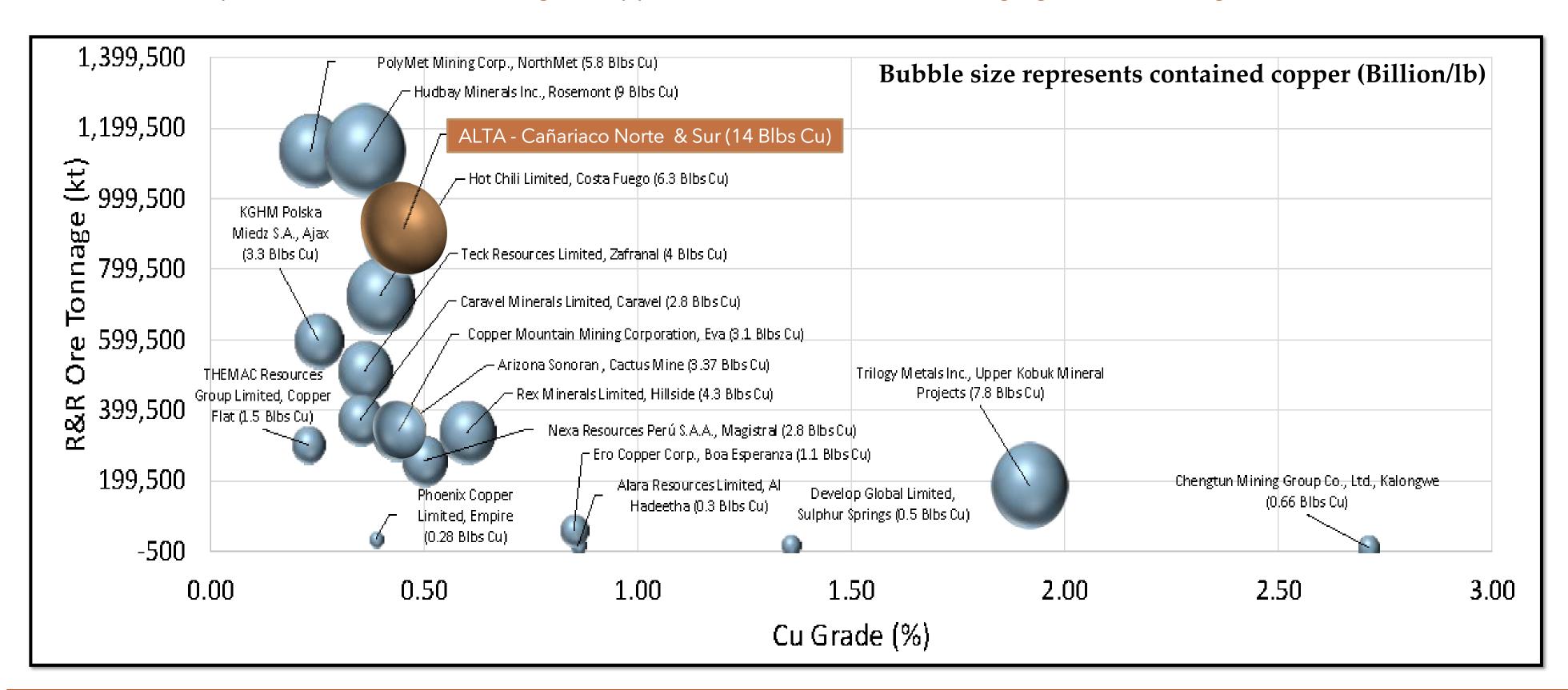
## Upcoming Value Catalysts → Leverage to Copper

- Re-rate potential as Alta trades at less than 1/7th of peers on US¢/lb CuEq Resource
- > Optimized Preliminary Economic Assessment with Whittle and Ausenco Engineering ("Ausenco") Whittle recently optimized the Los Azules Project, Argentina for McEwen Mining (project has ~\$500M value today) Optimized PEA Results to be Issued by April 30, 2024
- > Commence drilling by Q3-2024 | Drill Permit Application Submitted Awaiting Approval | Several High priority drill targets identified to date
- > Community Agreement for Exploration

## **COMPANY BENCHMARKING - MARKET POSITION**



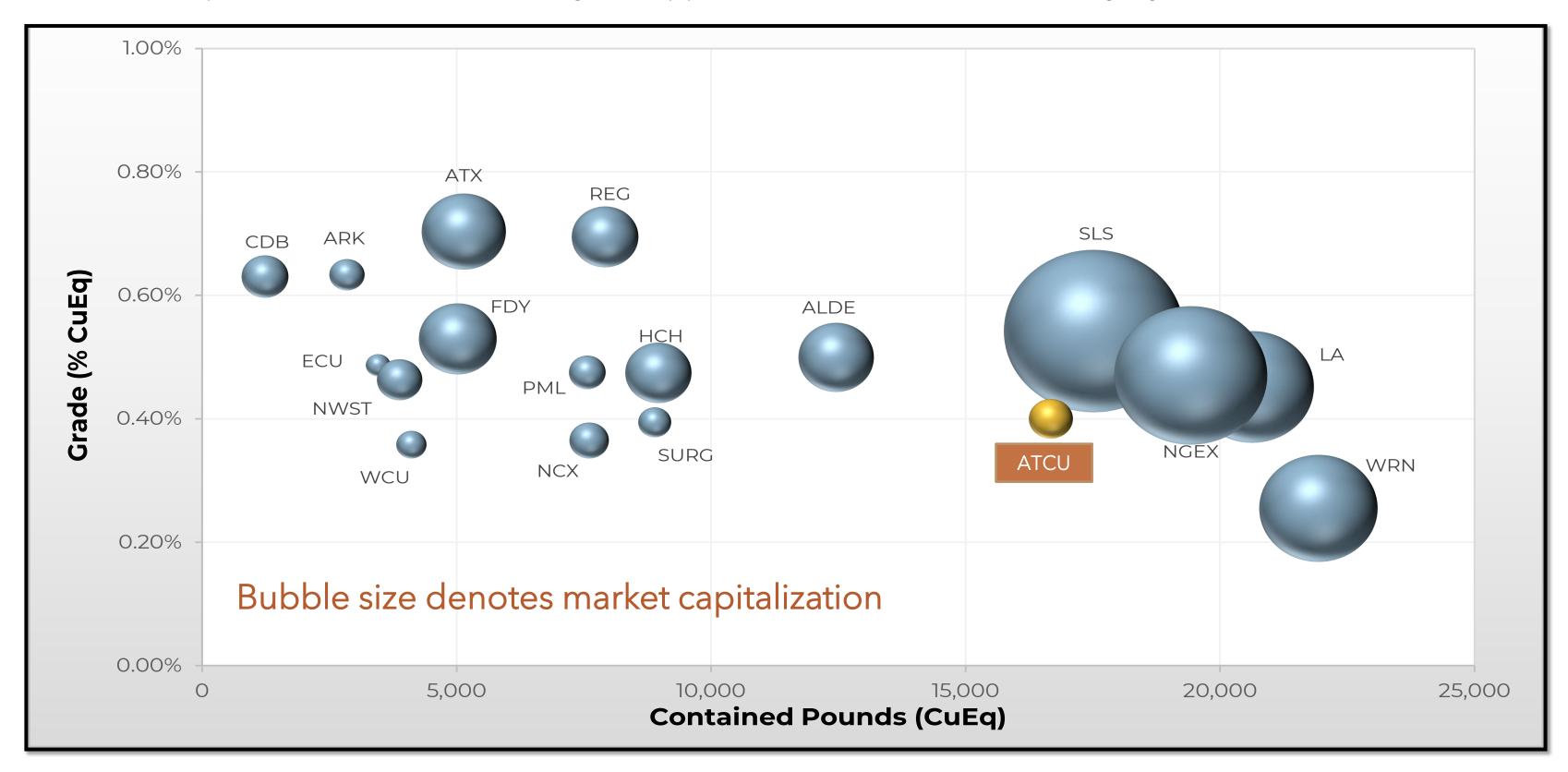
Cañariaco is well positioned as one of the largest copper resources with above average grades - Trading at Discount to Peers



## **COMPANY BENCHMARKING - MARKET POSITION**

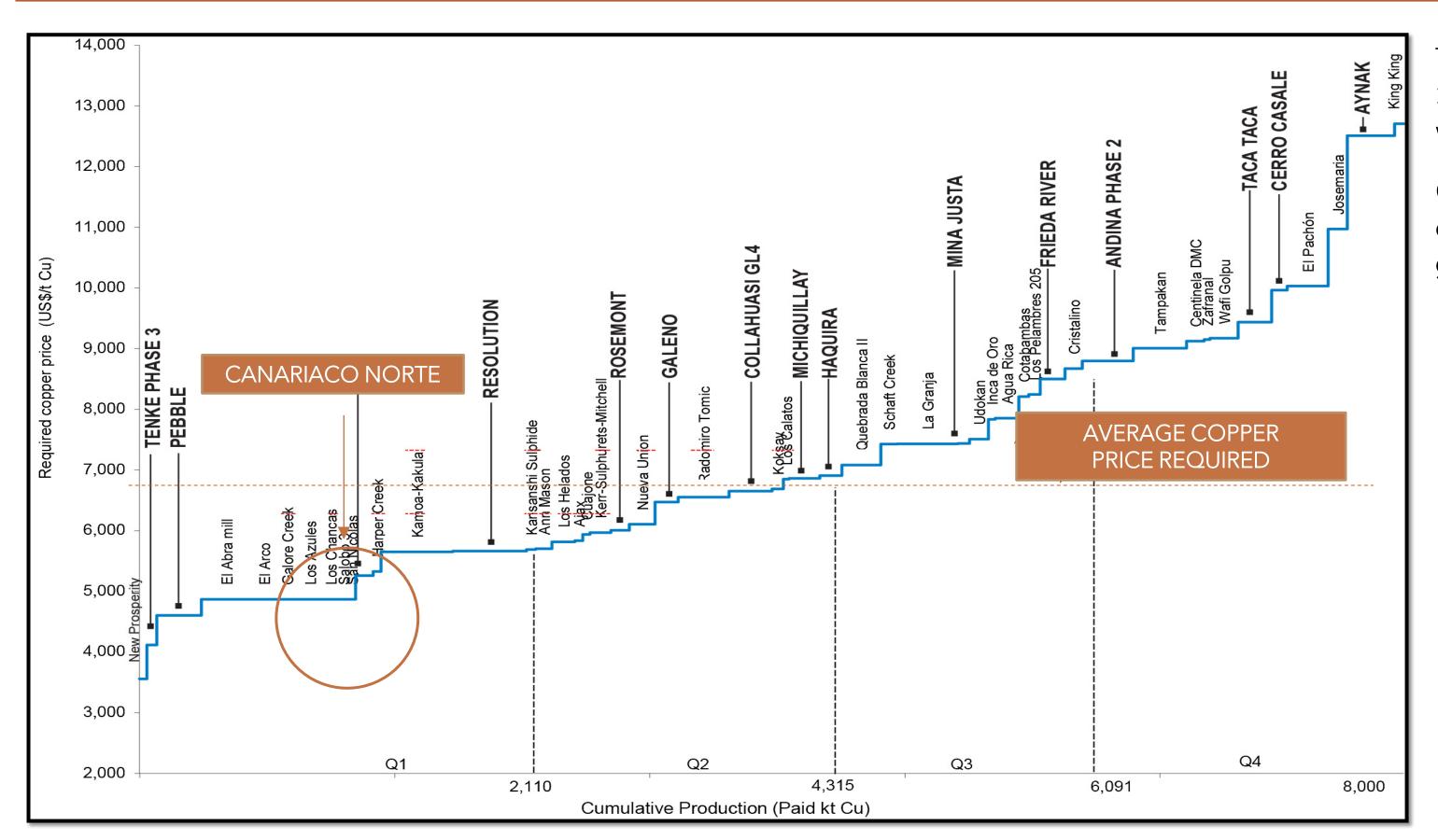


> Cañariaco is well positioned as one of the largest copper resources with above average grades









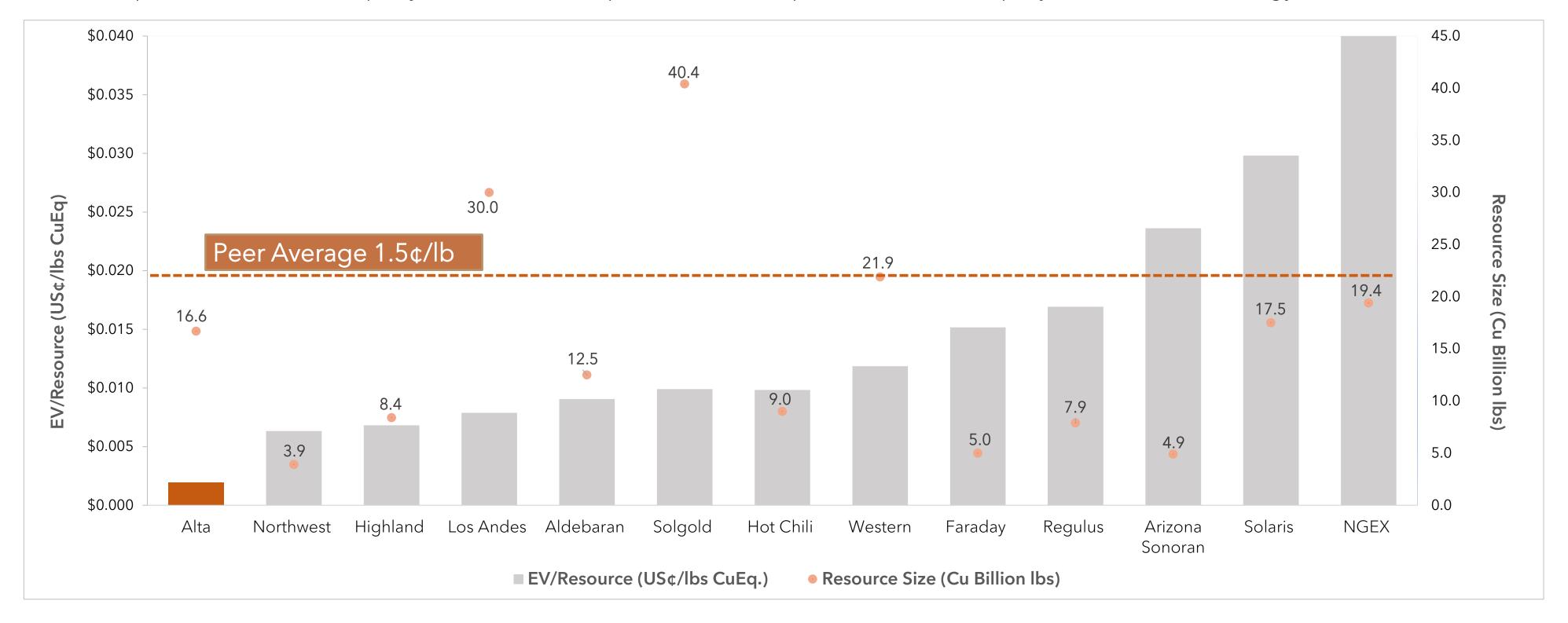
Top 84 projects set to form >75% of new copper supply world-wide

Cañariaco is in <u>lowest quartile</u> of copper prices required to go into production

# COMPANY BENCHMARKING - EV/RESOURCES (US¢/lb CuEq)



- Cañariaco is trading at less than 1/7<sup>th</sup> of the Peer Average
- > Re-rate potential as the company executes and repositions with Optimized PEA and project value add strategy

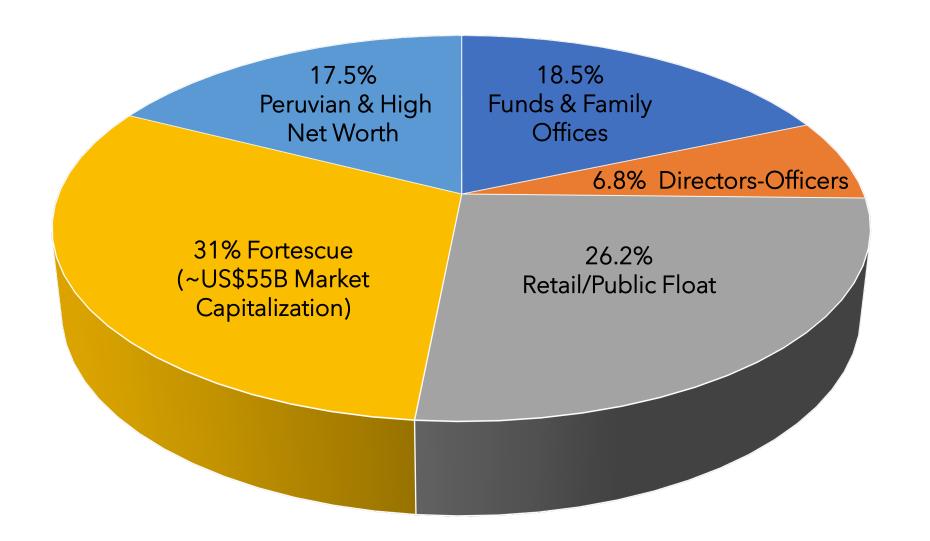






Capital Structure (Stated in Millions)						
Shares Issued and Outstanding	84.2					
Options	5.5					
RSU and DSU	1.1					
Total Shares - Fully Diluted	90.8					
Cash	C\$ 2.5					
Market Capitalization (Basic)	C\$43.8					
Enterprise Value	C\$41.3					
US cent/lbs. CuEq002¢						
2023 Financings at Plus 30 to 40 % Premium to Market: (C\$4.9 Million @ \$0.72 and C\$4.2M @ \$0.50 per share)						

# Shareholder Registry

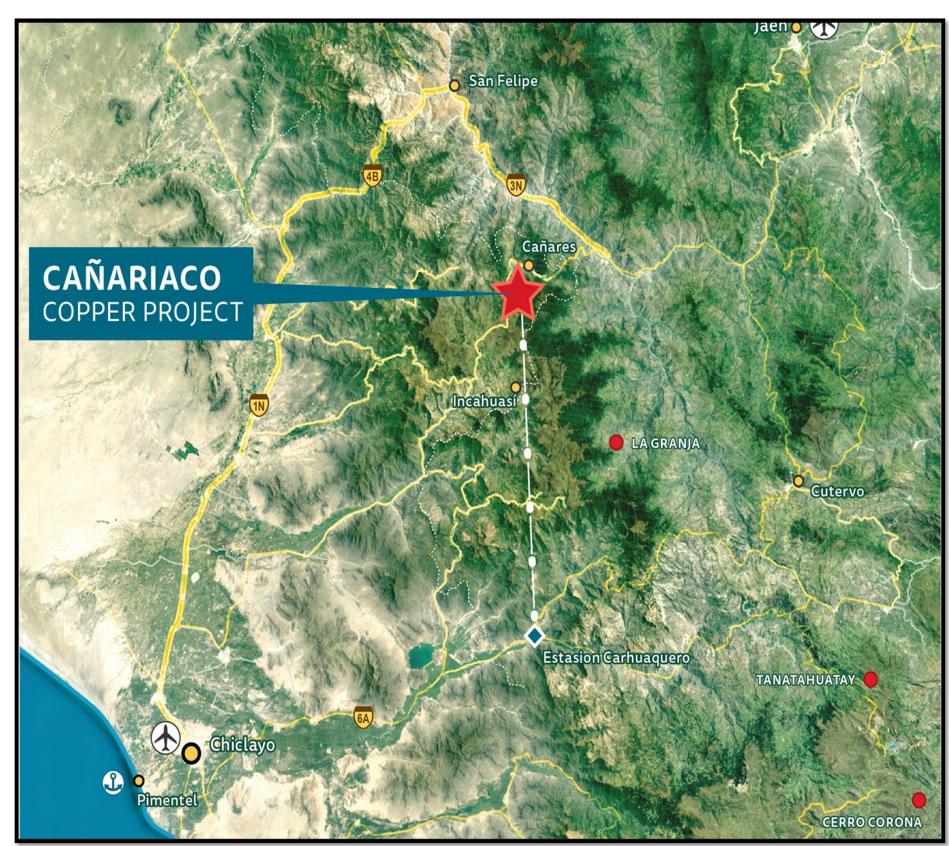


# **CAÑARIACO PROJECT - LOCATION**



Cañariaco is surround by major multibillion dollar mining projects. Strong infrastructure and access - 100% Owned, 97 Sq. Kilometers





# **CAÑARIACO PROJECT - LOCATION**



View of Cañariaco Norte Mineral Resource Looking West





# CAÑARIACO - TWO RESOURCES, HOW MANY DEPOSITS?



## Cañariaco Norte (Note 1)

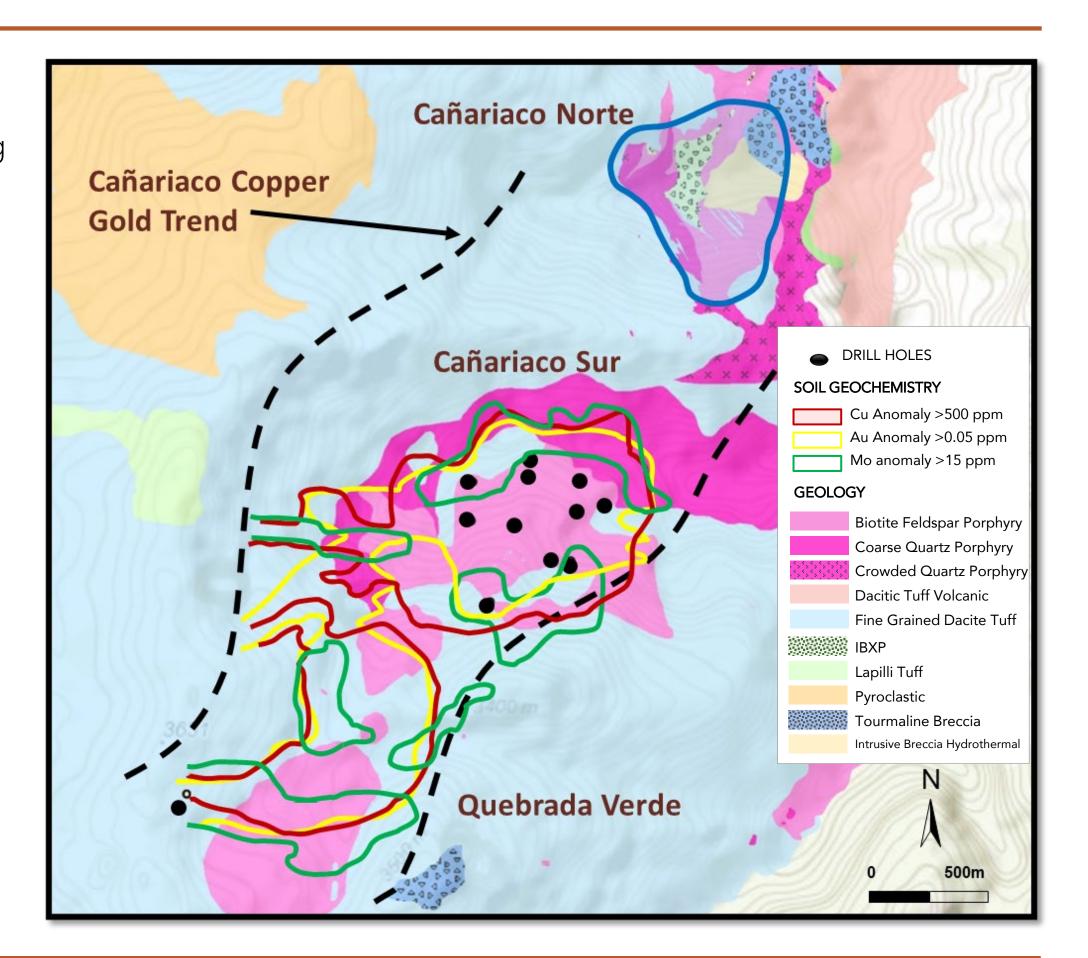
- Measured & Indicated 9.3B lb. Cu | 2.1M oz. Au | 59.4M oz. Ag
- Inferred 2.7B lb. Cu | 0.54M oz. Au | 18.1M oz. Ag
- Less than 0.66:1x strip ratio

### Cañariaco Sur (Note 1)

- Initial resource with upside on only 15 Drill Holes
- Inferred 2.2B lb. Cu | 1.2M oz. Au | 15M oz Ag | 18.9M lbs. Mo
- Very shallow mineralization

#### Quebrada Verde

• High potential copper gold porphyry target with strongly anomalous levels of copper and gold in soil samples



# CAÑARIACO PROJECT - RESOURCE ESTIMATES



- $\triangleright$  Cañariaco Norte and Sur are two deposits within a much larger district-scale project  $\rightarrow$  both resources are open in all directions
  - > Cañariaco Norte mineralization starts at surface, and has an extremely low strip ratio (0.66:1x); grade and strip ratio drive project economics
  - > Cañariaco Sur mineralization starts at surface with excellent upside and prospective targets

#### Cañariaco Norte - Mineral Resource

Measured and Indicated Resource Summary										
						Contained Metal				
Cu	Tonnes	CuEq <sup>1</sup>	Cu	Au	Ag	Cu	Au	Ag	CuEq	
Cut-Off	(Mt)	(%)	(%)	(g/t)	(g/t)	(B lbs)	(M Ozs)	(M Ozs)	(B lbs)	
0.30%	752.4	0.49%	0.45%	0.070	1.9	7.53	1.67	45.24	8.60	
0.20%	1,003.0	0.44%	0.40%	0.060	1.7	8.94	2.07	56.10	10.26	
0.15%	1,094.2	0.42%	0.39%	0.060	1.7	9.29	2.14	59.43	10.66	
Inferred Resource Su	Inferred Resource Summary									
0.30%	157.7	0.44%	0.41%	0.06	1.8	1.43	0.30	8.93	1.63	
0.20%	293.3	0.36%	0.33%	0.05	1.5	2.17	0.47	14.22	2.48	
0.15%	410.6	0.32%	0.29%	0.04	1.4	2.66	0.54	18.09	3.03	

#### Cañariaco Sur - Mineral Resource

Cañariaco Sur Inferred Resource											
							Contained Metal				
Cu	Tonnes	CuEq <sup>1</sup>	Cu	Au	Ag	Мо	Cu	Au	Ag	Мо	CuEq
Cut-Off	(Mt)	(%)	(%)	(g/t)	(g/t)	(ppm)	(B lbs)	(M Ozs)	(M Ozs)	(M lbs)	(B lbs)
0.20%	290.0	0.35%	0.29%	0.11	1.3	22	1.85	0.98	11.88	14.25	2.43
0.15%	384.5	0.32%	0.26%	0.10	1.2	22	2.22	1.18	15.02	18.91	2.93
0.10%	433.2	0.30%	0.25%	0.09	1.2	22	2.36	1.26	16.39	20.80	3.12

# **CAÑARIACO NORTE - 2022 PEA RESULTS**



- $\rightarrow$  Attractive Economics: NPV<sub>(8%)</sub>  $\rightarrow$  \$1.01B @ \$3.50 lb Cu, IRR =16.3%, NPV/CAPEX Ratio  $\rightarrow$ 1.0x
- > Very Low Capital Intensity Capex Reduced to \$1.04B with staged build to increase financing options
- > Ability to Phase Construction expansion to 80,000 tpd with additional capital of only \$305M funded from operations
- > Robust, Large Production Profile with Scale Over Long Mine Life (28 years):
- Life of Mine: 173 Mlb (78.5kt) Cu, 31kozs Au, 704kozs Ag
  - First 6 years: 120 Mlb (55kt) Cu; 24 kozs Au; 549 kozs Ag
  - > Subsequent 22 years: 193 Mlb (88kt) Cu: 34kozs Au; 756kozs Ag
- ➤ Low Strip Ratio: 0.66:1
- ➤ High Recoveries over LOM: 88.1% Cu; 64.7% Au; 57.2 Ag
- ➤ Lowest Decile Operating Cost Profile: US\$1.25/lb Cu average over LOM
- > Stronger ESG Profile: marketable concentrate with no need for arsenic treatment, decreased environmental footprint with single waste management facility
- > Untapped Upside Growth Potential: 28-year initial mine life, with several opportunities to extend the mine life, including mining additional resources below the proposed pit, inclusive of further resource expansion

# CAÑARIACO NORTE - 2022 PEA RESULTS AND SENSITIVITIES



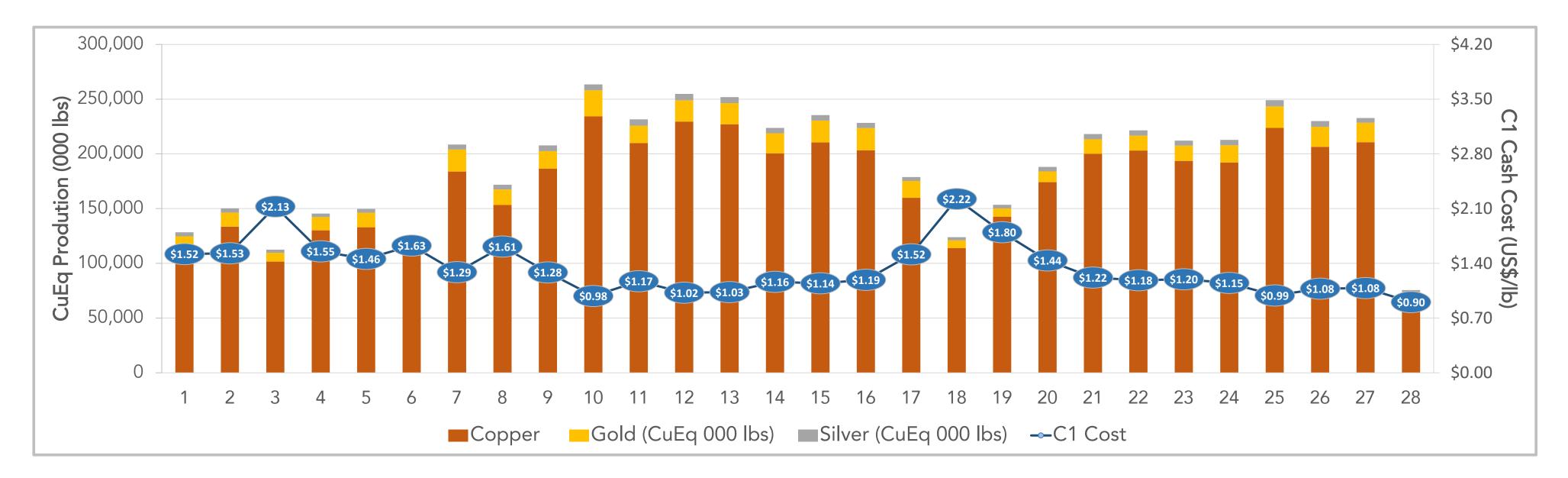
	Unit	PEA			
Copper Price	\$/lb	\$3.50	\$4.00	\$4.50	\$5.00
Pre-Tax NPV <sub>(8%)</sub>	\$M	2,023	2,754	3,485	4,216
Post-Tax NPV <sub>(8%)</sub>	\$M	1,010	1,423	1,833	2,241
Post-Tax IRR	%	16.3%	19.2%	21.9%	24.4%
Post-Tax Payback Period	Years	7.1	6.3	4.5	3.8
Avg Annual Cash Flow	\$M	229	278	326	375

Highly Economical Today at \$3.50/lb Cu + Significant Leverage to the Price of Copper

# **CAÑARIACO NORTE - PEA PRODUCTION & COSTS**



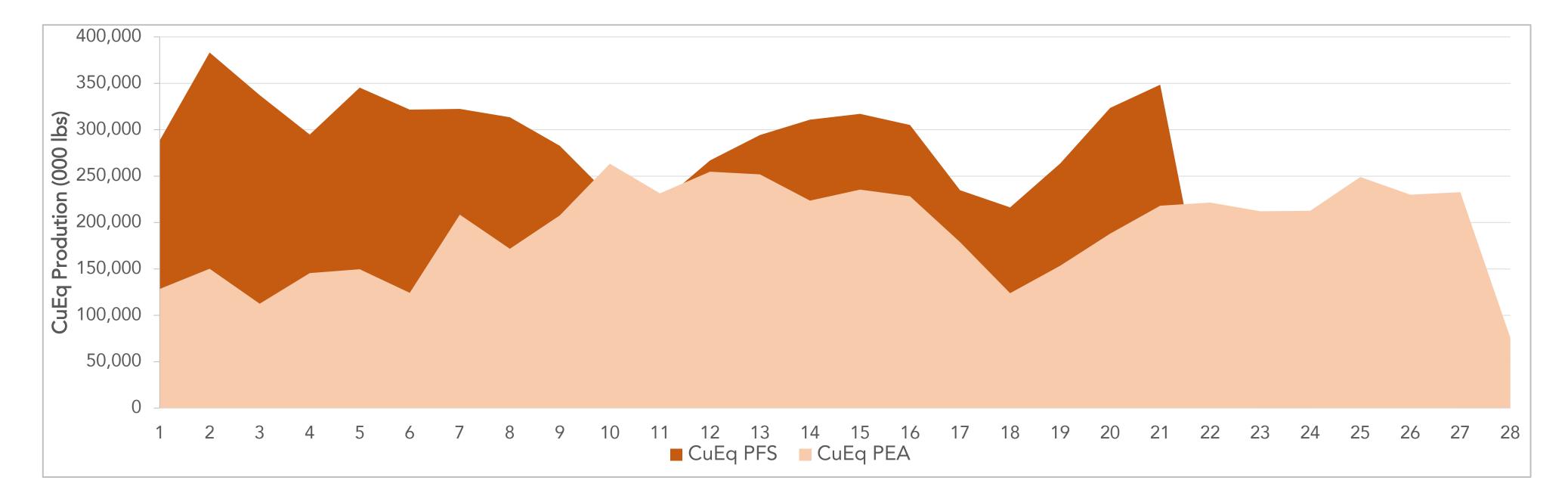
- $\triangleright$  Cañariaco will produce +195Mlbs of CuEq/year over 28 year life of mine  $\rightarrow$  long life mine, robust production profile
- $\succ$  C1 cash cost average over life of mine =  $$1.25/lb \rightarrow lowest quartile of cost curve, high margins$
- Copper generates plus 90.1% of revenues (Gold 7.7%, Silver 2.2%)



# NORTE - PEA (40ktpd to 80ktpd) vs. PFS (95ktpd) PRODUCTION PROFILE



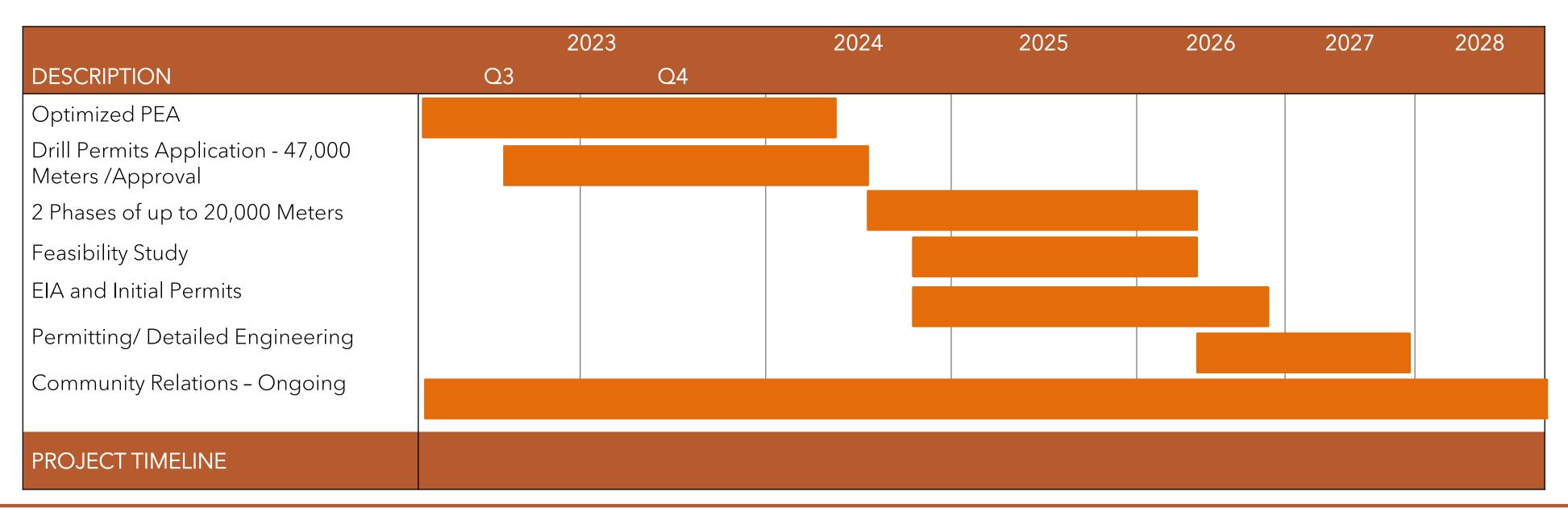
- Economies of scale when increasing daily tonnage to 95ktpd. The updated Optimized PEA to be published by Q3-2023 will increase daily tonnage rates of up to 110ktpd
- $\triangleright$  95ktpd Scenario Historical 2011 Prefeasibility Study has large upfront production profile  $\rightarrow$ 1st 10 Year average = 311Mlbs CuEq/year
- > Average production over life of mine in 95ktpd Scenario = 296Mlbs CuEq/year



# CAÑARIACO PROJECT TIMELINE



- $\triangleright$  Focused on re-starting community engagement while advancing Drill Permits (expected approval in Q2/Q3-2024)
- ➤ In parallel, Optimized PEA will be advanced by Ausenco and Whittle
  - > Whittle recent project optimization of Los Azules Project, Argentina (McEwen Copper, ~ US\$500M valuation)
  - > Whittle has identified key value drivers expected to significantly increase already robust project economics at Cañariaco
  - > Increased daily tonnage rates up to 120ktpd significantly increasing annual production
  - > Refine the tax calculation to more appropriately reflect the after-tax impact



# CAÑARIACO PROJECT - MINING IN PERU



## Peru Mining Investment

- Second Largest Copper Producer After Chile
- Recent Annoucements:

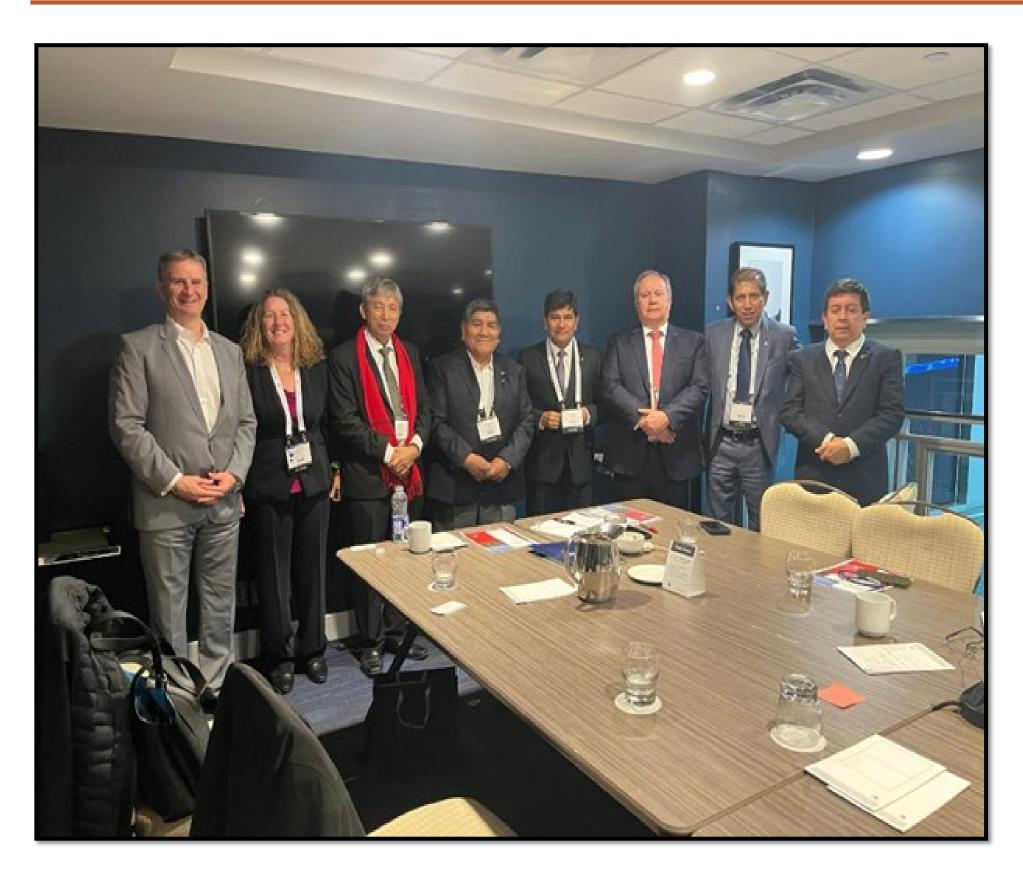
"Mining is the backbone of Peru's economy, accounting for 60 per cent of exports and about 10 per cent of gross domestic product. In recent months, the government of Boluarte, has vowed to increase mining investment, reduce red tape, and get 46 projects under way – all with a potential investment of US\$53 billion. "One of the objectives of this government is to unblock all mining projects"

The Boluarte administration now hopes some big companies will start greenfield projects, such as the US\$1.2bn Zafranal mine of Canada's Teck Resources, which was approved in May. In total, Boluarte's government has approved projects worth US\$5 billion this year.

"Unlocking projects is my priority, that's why they brought me in" The new Minister of Energy and Mines, Romulo Mucho, announced that "during his administration the unblocking of mining projects will be a priority"

# CAÑARIACO PROJECT - MINING IN PERU





Within the framework of PDAC 2024, the Minister of Energy and Mines of Perú, Rómulo Mucho, conducted an extensive work agenda that included interviews and meetings for the promotion of mining investments in Perú. The Minister re-affirmed the government's commitment to the minerals industry as a critical driver of the Peruvian economy. The Minister together with the Minister of Economy and Finance, José Arista; the Ambassador of Perú, Manuel Talavera; the Vice Minister of Mines, Henry Luna; the General Director of Mining, Jorge Soyo; the Specialized Investment Monitoring Director, Gabriela García; and the General Director of Promotion and Sustainability, Walter Sánchez, met with Joanne Freeze and Giulio Bonifacio which provided the opportunity to update the Minister and his team on the recent substantial progress with the advanced stage Cañariaco Norte project and to provide and update of the significant additional exploration and development potential with the nearby Cañariaco Sur copper gold deposit and Quebrada Verde copper gold porphyry target. Minister, Rómulo Mucho acknowledged the Company's long-standing presence in Perú and their commitment to the responsible development of the Cañariaco Project.

## **EXPERIENCED LEADERSHIP TEAM**



#### Giulio T. Bonifacio - Executive Chair & Director

- 30 plus years in senior executive roles in global mining industry. Chartered Professional Accountant with considerable experience and knowledge of operations, capital markets and project finance while raising significant amounts of capital for projects of merit by way of project debt, offtake, and equity.
- Founder, past President and Director of Nevada Copper from 2005 until his retirement in February 2018. During his 12 years at Nevada Copper Mr. Bonifacio successfully permitted both the underground and open pit operations at Pumpkin Hollow, which is the only permitted copper project of scale in the United States in the past 25 years.
- Non-Executive Chair of NevGold Corp.
- Former President, CEO and Non-Executive Chair of Faraday Copper Corp. (formerly "CopperBank Resources Corp.").

#### Dale Found, CPA, CA, FCA (UK) - Vice President, Chief Financial Officer

- 30 years of international accounting & finance experience.
- Significant experience in mine site operational finance and senior leadership Nevada Copper Corp. positioned the mine for construction.
- On team that led New Afton Mine through construction into production delivering on time and on budget, managed all financial matters for New Gold Inc. in Mexico.

#### Joanne Freeze, B.A., B.Sc., P. Geo. - Founder, President, CEO & Director

- 25 plus years in senior executive roles in the global mining industry and Professional Geologist with considerable experience and knowledge of exploration, valuations, resource definition and economic studies, capital markets and finance while part of raising over \$120M to date for advanced projects.
- 40 plus years in exploration predominantly in gold and copper in Canada, Peru and Mexico but also diamonds, coal and other commodities for both junior and major companies.
- Lived and worked in Peru in mid 1990's QP for various Canadian and Peruvian Companies and founded Alta Copper with Fredy Huanqui in 1997.
- Spun-out various assets to form two other companies, also listed on the TSX/TSXV and currently CEO of Xali Gold Corp.

#### Sean Waller, M.Sc., P. Eng. - Key Advisor & Director

- Former VP Global Business Development & Senior Project Manager with AMEC Americas' Mining and Metals Division.
- 30 plus years of global experience in copper and gold mine design, operations and evaluations.
- Past President of the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM").

## **EXPERIENCED LEADERSHIP TEAM**



#### Luis Miguel Inchaustegui Zevallos, B.A., LLB, MBA - Director

- Extensive mining company experience as VP Corporate Affairs and Sustainable Development for Gold Fields Ltd., including Institutional Communication and Relations.
- Lawyer with 27 years' experience working with mining companies, Peru Government and Inter-American Development Bank on strategic issues, corporate affairs and sustainable development.
- Vice-Minister and Minister of Energy and Mines of Peru from 2018 to 2020.

#### Andrew Hamilton, BEng. (Mech) - Director

- Technical Director, Corporate Strategy Team, Fortescue Ltd.
- Current role includes managing and reviewing critical metal opportunities. Over his career, Mr. Hamilton has held senior management and directorship roles, providing expertise in engineering, constructing, commissioning and business delivery services to mining, infrastructure and fleet management.
- Joined Fortescue Metals in early 2008 to complete, commission and ramp up Fortescue's first operational Cloudbreak mine with later delivery of the site's wet beneficiation and power station upgrades.
- Led design, construction, commissioning on the Iron Bridge project leading to the delivery of the full-scale Stage 1 developmental plant within a 15-month period. Upon successful operation of Stage 1, Mr. Hamilton managed and delivered the Investment Decision report to the Fortescue Board in 2019, culminating in approval of the 22mtpa Iron Bridge Magnetite JV ("IBJV") Project. Mr. Hamilton held various roles on the US\$3.9bn IBJV project including Project Director and Technical Director.

#### Steven Latimer, MBA, HBA, CFA - Director

- Current Managing Director and Head of the Americas for Bacchus Capital Advisers, an independent investment banking boutique.
- Over 30 years' experience as a leading global M&A adviser and has led numerous financings with a focus on both operating and development copper companies operating in the Americas.

#### Christine Nicolau - Director

- Metals General Manager, Latin America, Fortescue Ltd.
- Responsible for Fortescue's South American minerals business including exploration, project development and other growth activities.
- Has held a range of Management positions across Australia and South America over the last 10 years.



# Appendix





#### Notes Mineral Resource Estimate - Cañariaco Norte & Sur:

- 1. <u>Cañariaco Norte</u> -Copper equivalent grades including contributions from gold and silver, were estimated using metal prices (Copper US\$3.50/lb., Gold US\$1,650/oz., and Silver US\$21.50/oz., metal recoveries (Copper 88%, Gold 65%; Silver 57%) and smelter payables (Copper 96.5%: Gold 93%; Silver 90%). Copper grade equivalent calculation: Cu Eq% equals(Cu% plus (Au grade x Au price x Au recovery x Au smelter payable%) plus (Ag grade x Ag price x Ag recovery x Ag smelter payable%)/(22.0462 tomes Cuprice x 31.1035 g/t x Cu recovery x Cu smelter payable%).
- 2. <u>Cañariaco Sur</u> Copper equivalent grades including contributions from gold, silver and molybdenum, were estimated using metal prices (Copper US\$3.50/lb., Gold US\$1,650/oz., US\$21.5/oz and US\$11.00/lb. Mo), metal recoveries (Copper 88%, Gold 65%; Silver 57% and molybdenum 60%) and smelter payables (Copper 96.5%: Gold 93%; Silver 90% and Molybdenum 100%). Copper grade equivalent calculation: Cu Eq% equals Cu % plus (Au grade x Au price x Au recovery x Au smelter payable%) plus (Ag grade x Ag price x Ag recovery x Ag smelter payable%) plus (Mo grade x Mo price x Mo recovery x Mo smelter payable%))/(22.0462 x Cu price x 31.1035 g/t x Cu recovery x Cu smelter payable%).
- 3. The Qualified Person for the estimate is David Thomas of DKT Geosolutions Inc.

## **NOTE DISCLOSURE - PEA & PFS**



## Notes PEA & Prefeasibility Study:

- 1. Cañariaco Norte Project NI 43-101 Technical Report on Preliminary Economic Assessment, Prepared by Ausenco Engineering Canada Inc. with an Effective date of February 8, 2022.
- 2. Gold and silver prices used did not vary and are US\$1,650/oz Au and US\$21.50/oz Ag.
- 3. The financial model is based on open pit mining by the owner with financed mobile mining equipment including scheduled additions and replacements. All other project costs are the responsibility of the Owner, including process and infrastructure preproduction capital, LOM sustaining capital, and closure costs.
- 4. Tax has been estimated by a third-party tax consultant and include a Peruvian corporate income tax rate of 29.5% (plus 2% during the term of an assumed Stability Agreement), employee profit sharing of 8% of taxable income and mining taxes for the exploitation of mineral resources which are based on the operating profit (mining royalties on a sliding scale of 1% to 12% with a minimum of 1% of sales and special mining tax on a sliding scale of 2% to 8.4%).
- 5. <u>Cautionary Note</u>: Annual Production levels are based on a Historical National Instrument 43-101 Technical Report January 18, 2011 Preliminary Feasibility Study for Cañariaco Project, Lambayeque, Peru and are subject to number of uncertainties and risks, and actual results may differ materially from those contained in such projections and <u>should not be relied upon by the Reader.</u>

# CAÑARIACO NORTE - PEA CAPITAL COSTS



- Open pit mine with conventional crush/grind and flotation technology
- Minimal expansion capital from 40ktpd to 80ktpd (+US\$305M)
- > Potential for moderate capital cost profile:
  - No concentrate pipeline
  - Use port facilities developed by others
  - Plenty of water at site
  - Relatively soft rock needs less power for crushing and grinding
  - Low waste to ore Strip Ratio of 0.66:1
  - Power supply from national power grid to the mine site by a 220 kv overhead transmission line from the local utility substation at Carhuaquero, 55 km from the mine site

Project Capital Cost Summary							
	PHASE I	PHASE II					
	(40,000 tpd)	(80,000 tpd)					
Cost Area	Cost (US\$M)	Cost (US\$M)					
Pre-stripping	119	-					
Mining Infrastructure & Equipment	49	-					
Process Plant	360	204					
Site Related Infrastructure (Incls. Ext. Power)	85	2					
Tailings and Waste Rock Management	116	-					
Sitewide Water Services	7	1					
Sitewide Power and Lighting	7	-					
Subtotal - Directs	743	207					
Indirects	137	42					
Owner's Cost	14	5					
Contingency	149	51					
Subtotal - Indirects	300	98					
Total Preproduction Capital	1,043	305					
Sustaining Capital (Life-of-Mine)	45	74					
Closure Costs	-	104					
Total Project Capital Cost (Note 1)	1,088	483					

# CAÑARIACO NORTE - PEA OPERATING COSTS



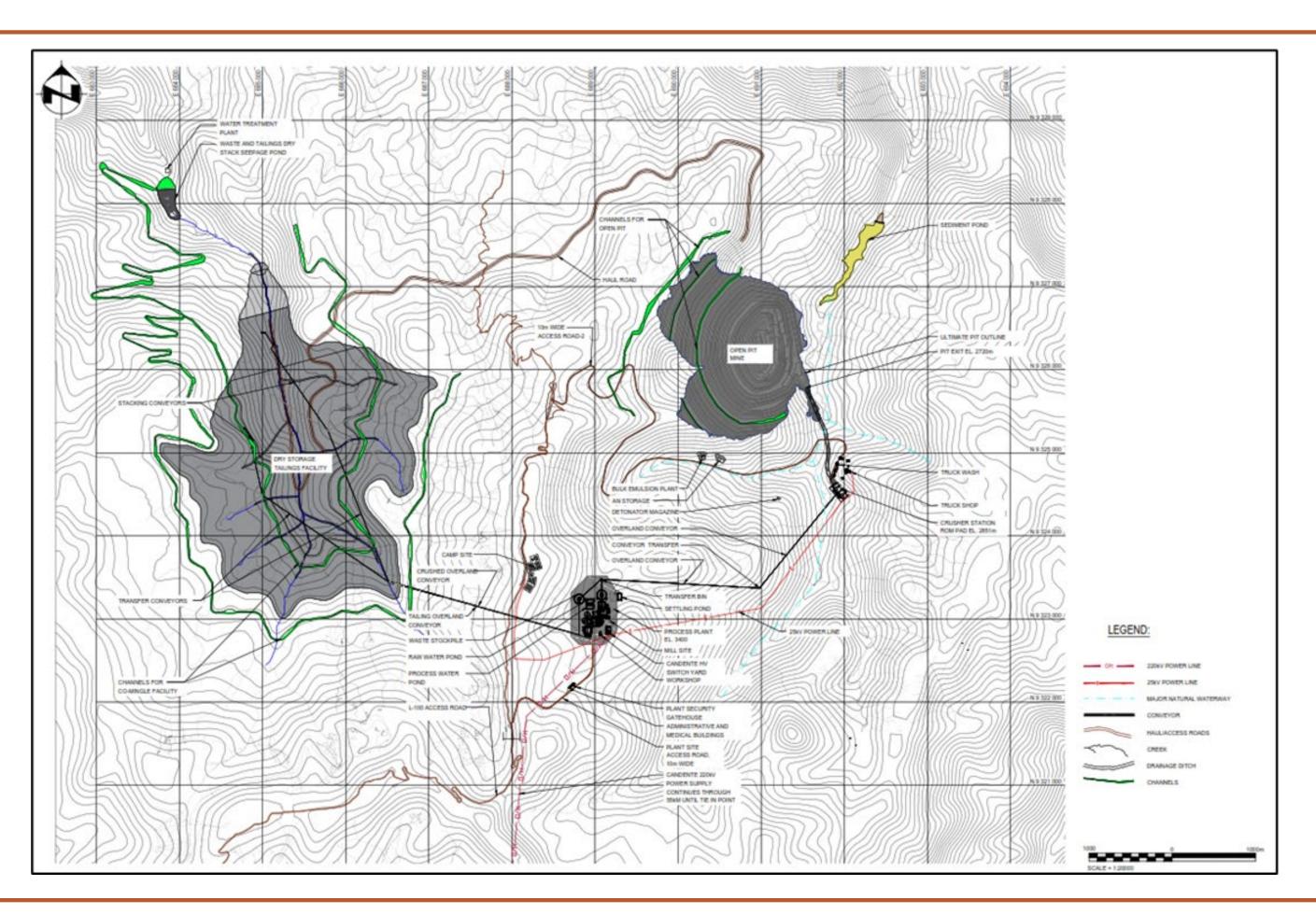
- > Open pit mine with conventional crush, grind and flotation technology
- ➤ Lowest quartile C1 costs at US\$1.25/lb over life of mine
- > Extremely low strip ratio of 0.66:1

Life of Mine Operating Costs Summary								
Area	Unit US\$							
On-site Costs								
Mining	\$/t processed	2.62	\$/Ib Cu	0.38				
Processing	\$/t processed	4.76	\$/Ib Cu	0.69				
Co-mingle Tailings	\$/t processed	0.12	\$/Ib Cu	0.02				
General & Administration	\$/t processed	0.70	\$/lb Cu	0.09				
Sub-total	\$/t processed	8.20	\$/Ib Cu	1.18				
Off-site Costs								
Concentrate Transport	\$/t concentrate	127.47	\$/Ib Cu	0.24				
Smelting & Refining	\$/t concentrate	119.10	\$/Ib Cu	0.22				
Sub-total	\$/t concentrate	246.57	\$/lb Cu	0.46				
Total Cost	\$/Ib Cu	1.64						
Credits (Gold, Silver)	\$/lb Cu	(0.39)						
Total Operating Cost	\$/Ib Cu	1.25						





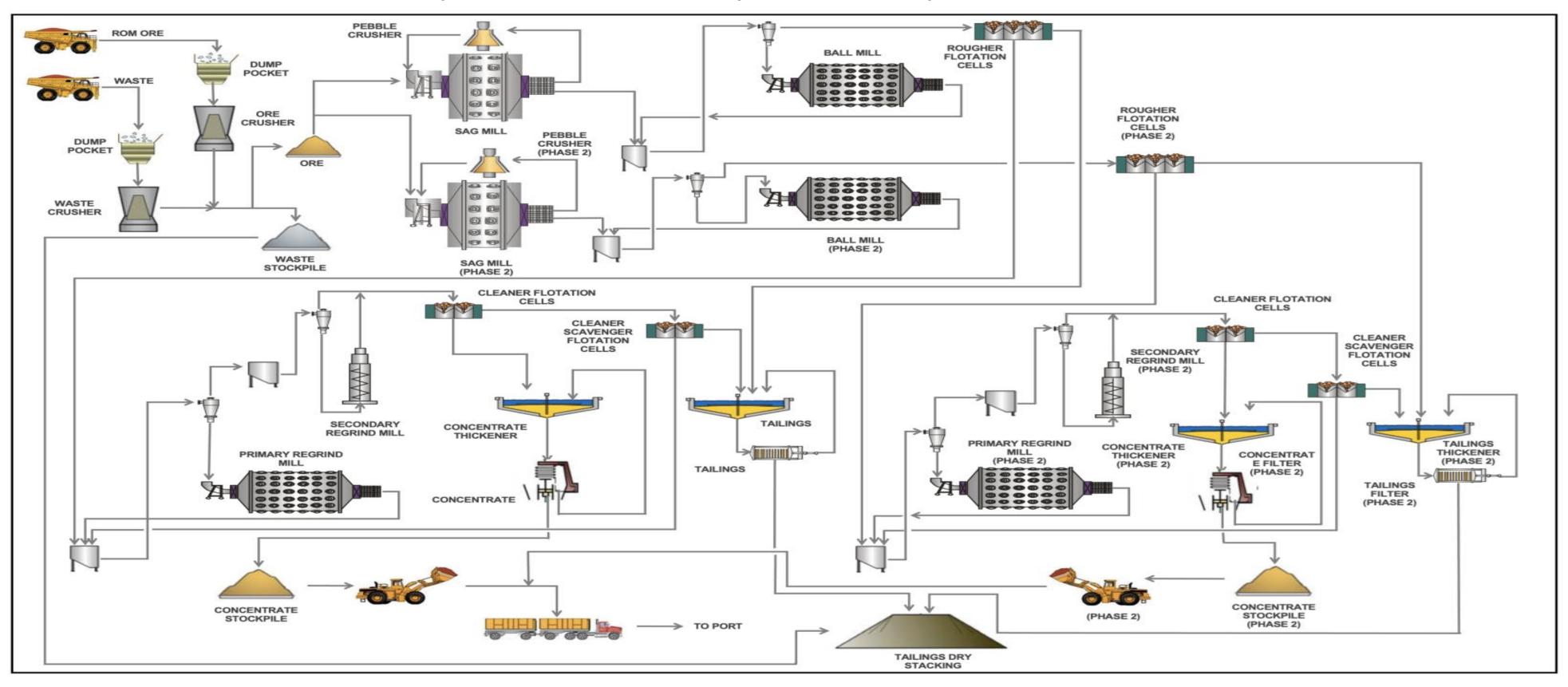
- Mine Infrastructure Area ("MIA") & Crusher /ROM pad are located near the pit to minimize hauling distance
- Electrical power will be supplied to the Project Site by a 220 kV overhead transmission line form the local utility substation at Carhuaquero, 55 km from the mine site
- Plant and camp sites selected on a natural elevated area close to existing roads and away from watersheds

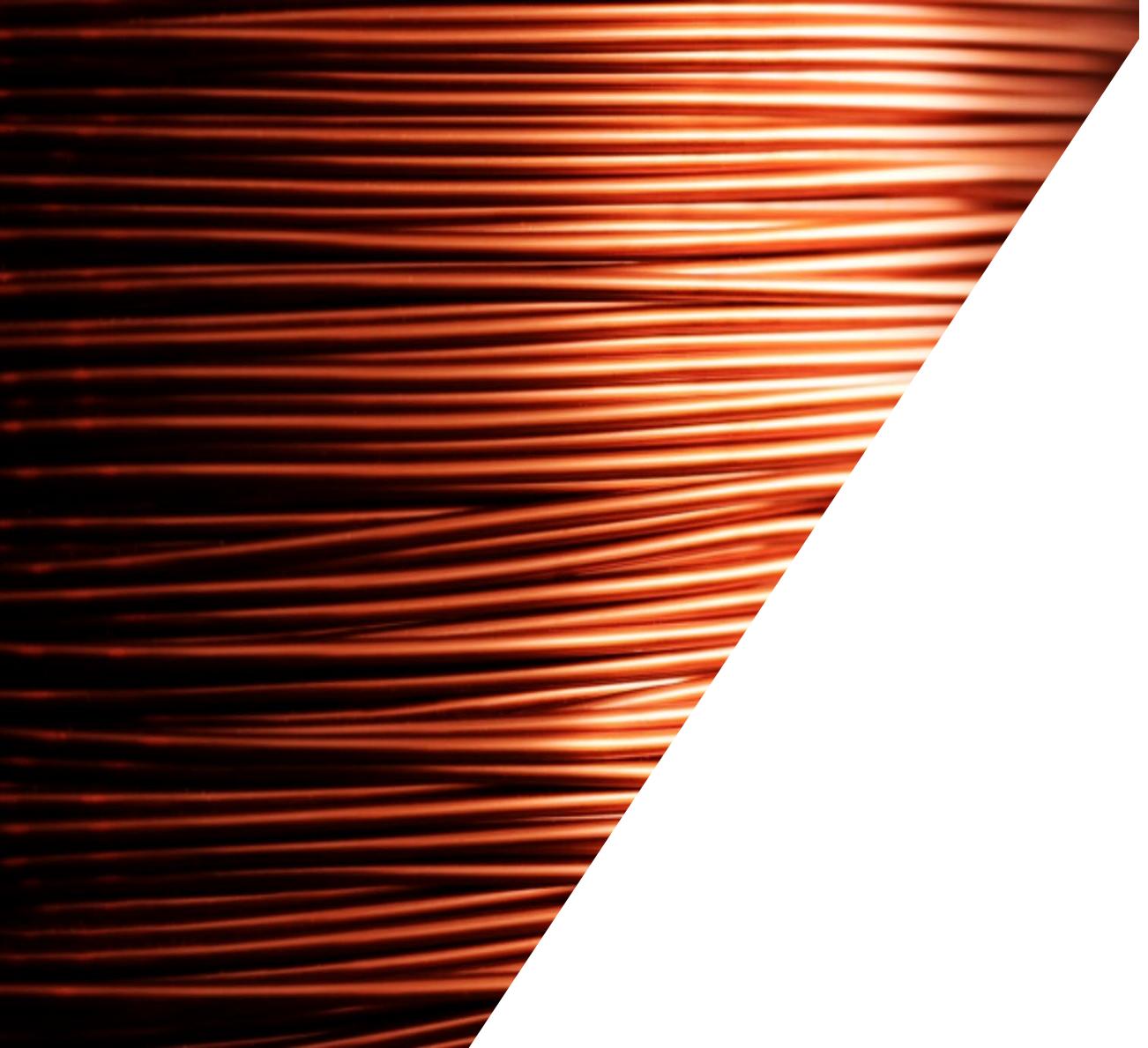


## PROCESS FLOWSHEEET



## Phase 2 Expansion from 40,000 tpd to 80,000 tpd with added Parallel Line







# **CONTACT INFO**

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or

Joanne C. Freeze, President, CEO <u>jfreeze@altacopper.com</u>

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