



**SURGE**  
COPPER CORP

TSXV:SURG | OTCQB:SRGXF | FRA:G6D2

# Copper Discovery & Development in British Columbia

April 2024



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Dr. Shane Ebert P.Geol., President of the Company, is the Qualified Person for the Ootsa project as defined by NI 43-101 and has approved the technical disclosure contained in this Presentation.

## **Cautionary Note to U.S. Readers Regarding Estimates of Resources**

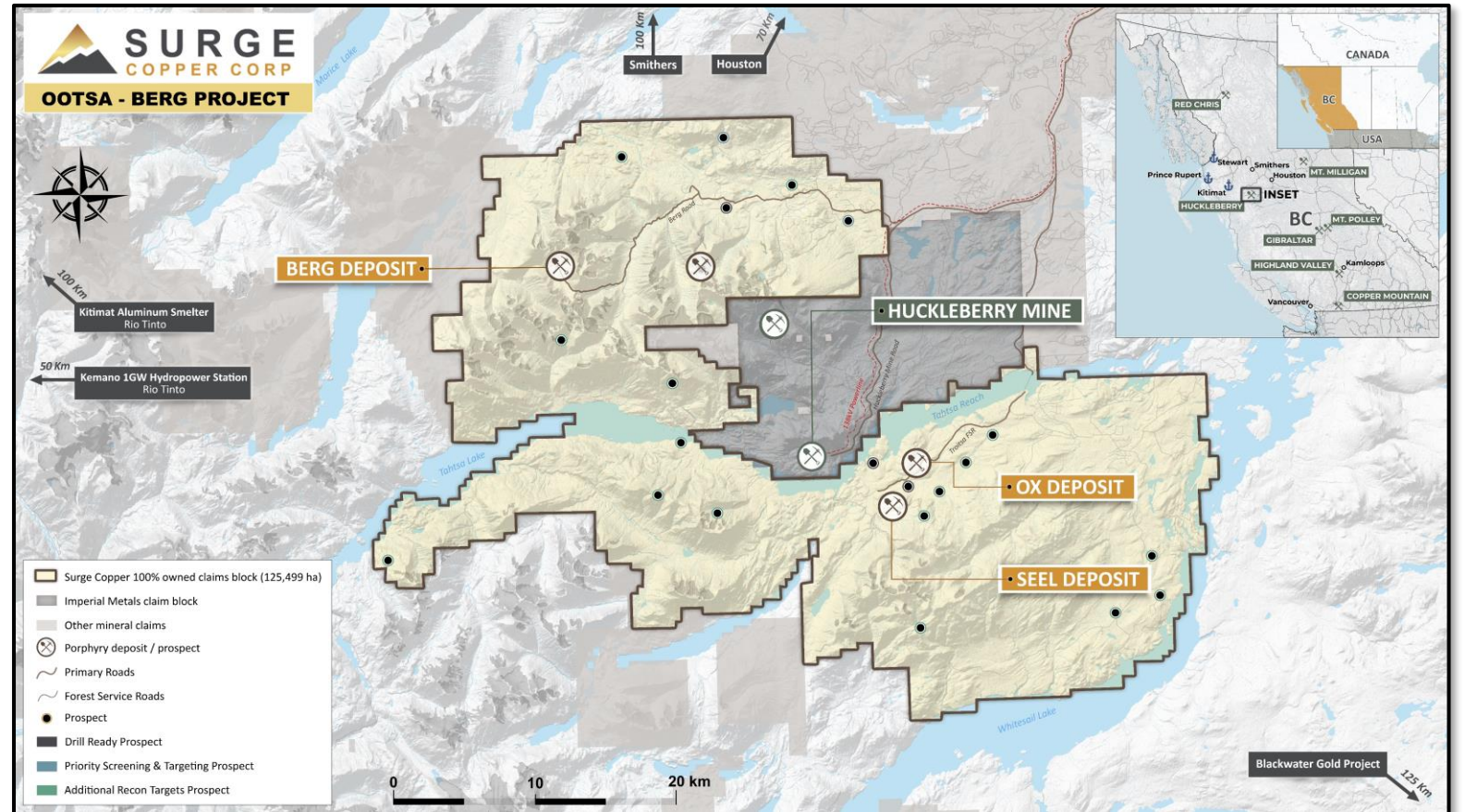
This Presentation uses the terms "measured" and "indicated" mineral resources and "inferred" mineral resources. The Company advises U.S. investors that while these terms are recognized and required by Canadian securities administrators, they are not recognized by the U.S. Securities and Exchange Commission. The estimation of "measured" and "indicated" mineral resources involves greater uncertainty as to their existence and economic feasibility than the estimation of proven and probable reserves. The estimation of "inferred" resources involves far greater uncertainty as to their existence and economic viability than the estimation of other categories of resources. It cannot be assumed that all or any part of a "measured", "indicated" or "inferred" mineral resource will ever be upgraded to a higher category.

# District Overview

SURGE HAS 100% OWNERSHIP OF A DOMINANT LAND POSITION IN THE BERG-HUCKLEBERRY-OOTSA DISTRICT

## Competitive Advantages

- ✓ Simple 100% ownership of 125,499-hectare contiguous land package
- ✓ Over 1.4 Bt of combined M+I resources<sup>1</sup> at Berg & Ootsa
- ✓ Deposits accessible by road, off Trans-Canada Highway
- ✓ Abundant freshwater resources
- ✓ Multiple nearby port options
- ✓ Significant industrial activity in region (copper mine, gold mine, aluminum smelter, hydroelectricity station, gas pipeline, forestry operations, etc.)



# Maiden Berg PEA Highlights

ROBUST BASE CASE ECONOMICS WITH SIGNIFICANT LOW-COST PRODUCTION OVER A LONG MINE LIFE

**C\$2.1B** Base Case NPV<sub>8%</sub>

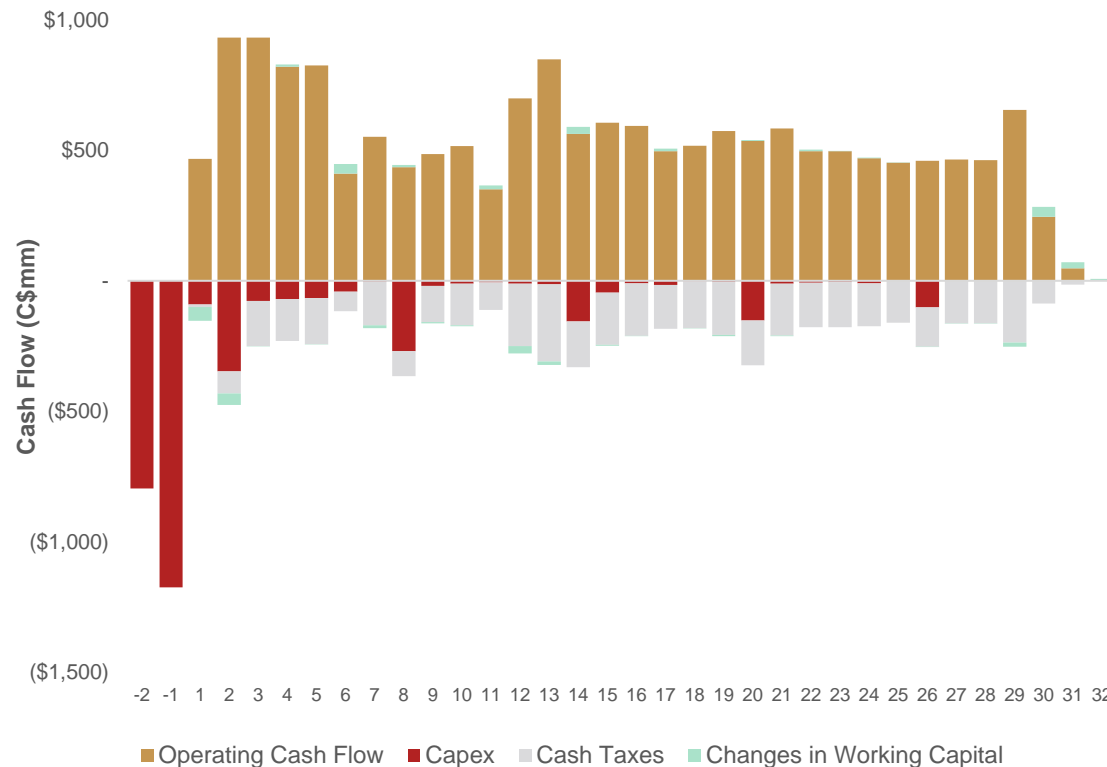
**20%** Base Case IRR

**5.8Blbs** Life-of-Mine Payable  
CuEq<sup>1</sup> Production

**191Mlbs** Annual Payable CuEq  
Production

**30 Year** Mine Life

**C\$348m** Life-of-Mine Avg.  
Annual FCF



## Resource & PEA Mineable Inventory

Total M&I Resource	Mt	1,009
Additional Inferred Resource	Mt	542
PEA Mineable Inventory	Mt	978
LOM Strip Ratio	waste:ore	1.1
% M&I in Mineable Inventory	%	80%

## Capital Intensity

Pre-Production Capex	C\$mm	\$1,968
NPV / Capex	x	1.1x
Init. Capex / Annual Payable Production	US\$/t CuEq	\$17,456
Init. Capex / Total Payable Production	US\$/lb CuEq	\$0.26
Payback Period	years	3.9
FCF Yield on Capex	%	18%

## Cash Costs

LOM Co-Product C1 Cash Costs	US\$/lb CuEq	\$1.75
LOM Co-Product C3 Cash Costs	US\$/lb CuEq	\$1.98
LOM By-Product C1 Cash Costs	US\$/lb Cu	\$0.46
LOM By-Product C3 Cash Costs	US\$/lb Cu	\$0.82

# Strategically Significant Project

SIGNIFICANT VOLUMES OF CRITICAL MINERALS CU & MO OVER 30-YEAR MINE LIFE

## Breakdown



**3.7** Blbs LOM  
**121** Mlbs/yr  
**64%** of Revenue



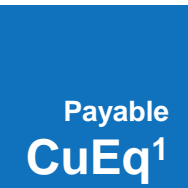
**399** Mlbs LOM  
**13** Mlbs/yr  
**26%** of Revenue



**82** Moz LOM  
**3** Moz/yr  
**8%** of Revenue

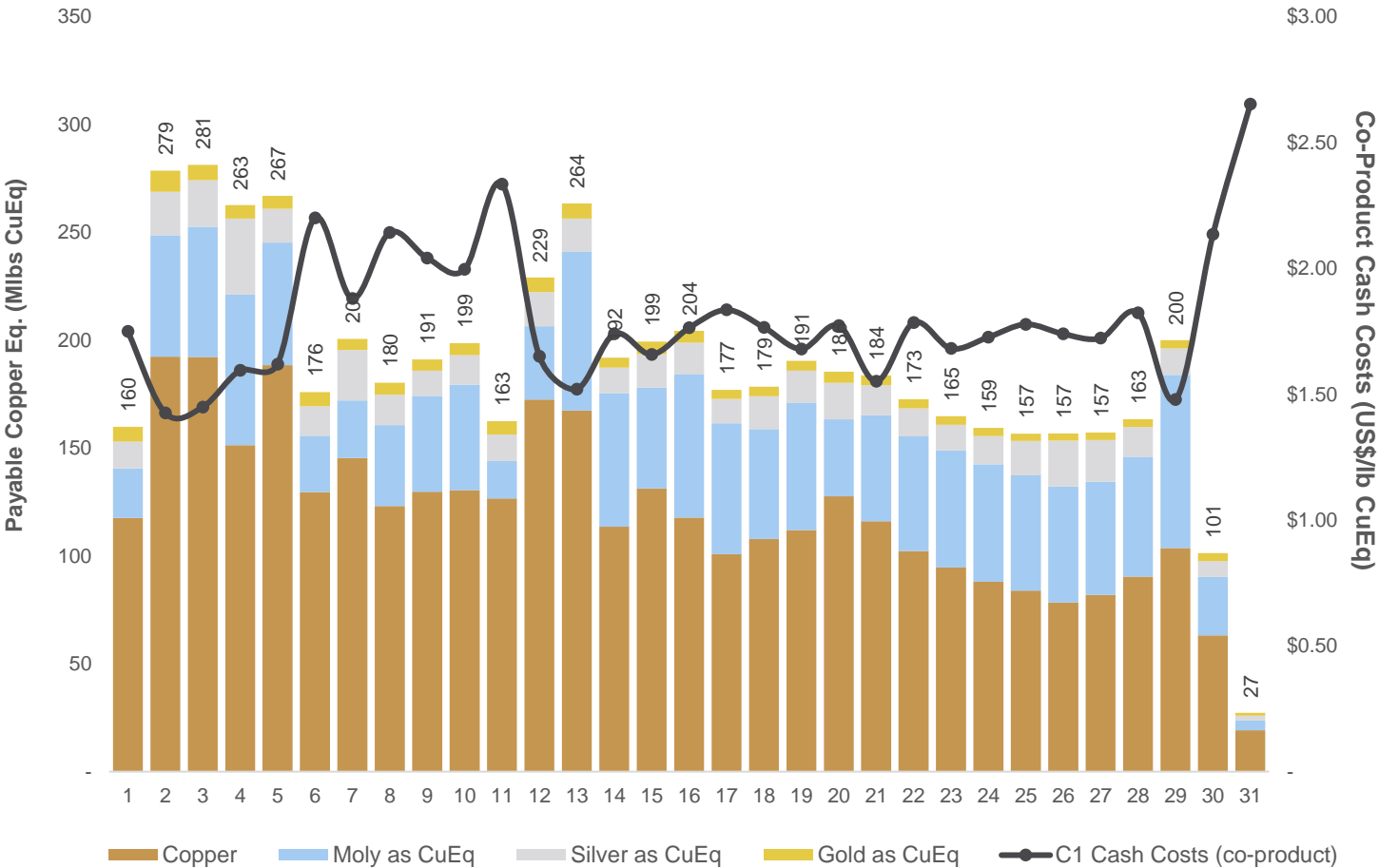


**354** koz LOM  
**12** koz/yr  
**3%** of Revenue



**5.8** Blbs LOM  
**191** Mlbs/yr

## Production Profile



1) See End Notes ♦ and ★.

# Metal Price Sensitivity

BERG PEA ECONOMICS ARE ROBUST UNDER A WIDE RANGE OF LONG-TERM COMMODITY PRICE ASSUMPTIONS

## NPV<sub>8%</sub> Sensitivity to Cu & Mo Prices (C\$m)

## IRR Sensitivity to Cu & Mo Prices (%)

□ - Base Case

		Copper Price							
		\$2.80	\$3.20	\$3.60	\$4.00	\$4.40	\$4.80	\$5.20	
		(30%)	(20%)	(10%)	-	10%	20%	30%	
Molybdenum Price	\$10.50	(30%)	\$229	\$698	\$1,160	\$1,618	\$2,073	\$2,526	\$2,979
	\$12.00	(20%)	\$390	\$855	\$1,317	\$1,773	\$2,227	\$2,680	\$3,133
	\$13.50	(10%)	\$549	\$1,012	\$1,473	\$1,929	\$2,382	\$2,835	\$3,288
	\$15.00	-	\$707	\$1,170	\$1,629	\$2,084	\$2,537	\$2,990	\$3,443
	\$16.50	10%	\$864	\$1,327	\$1,784	\$2,238	\$2,692	\$3,144	\$3,597
	\$18.00	20%	\$1,022	\$1,483	\$1,939	\$2,393	\$2,846	\$3,299	\$3,752
	\$19.50	30%	\$1,179	\$1,639	\$2,095	\$2,548	\$3,001	\$3,454	\$3,906

		Copper Price							
		\$2.80	\$3.20	\$3.60	\$4.00	\$4.40	\$4.80	\$5.20	
		(30%)	(20%)	(10%)	-	10%	20%	30%	
Molybdenum Price	\$10.50	(30%)	9%	12%	15%	18%	20%	23%	25%
	\$12.00	(20%)	10%	13%	16%	18%	21%	23%	26%
	\$13.50	(10%)	11%	14%	17%	19%	22%	24%	26%
	\$15.00	-	12%	15%	17%	20%	22%	25%	27%
	\$16.50	10%	13%	16%	18%	21%	23%	25%	28%
	\$18.00	20%	14%	16%	19%	21%	24%	26%	28%
	\$19.50	30%	15%	17%	20%	22%	24%	27%	29%

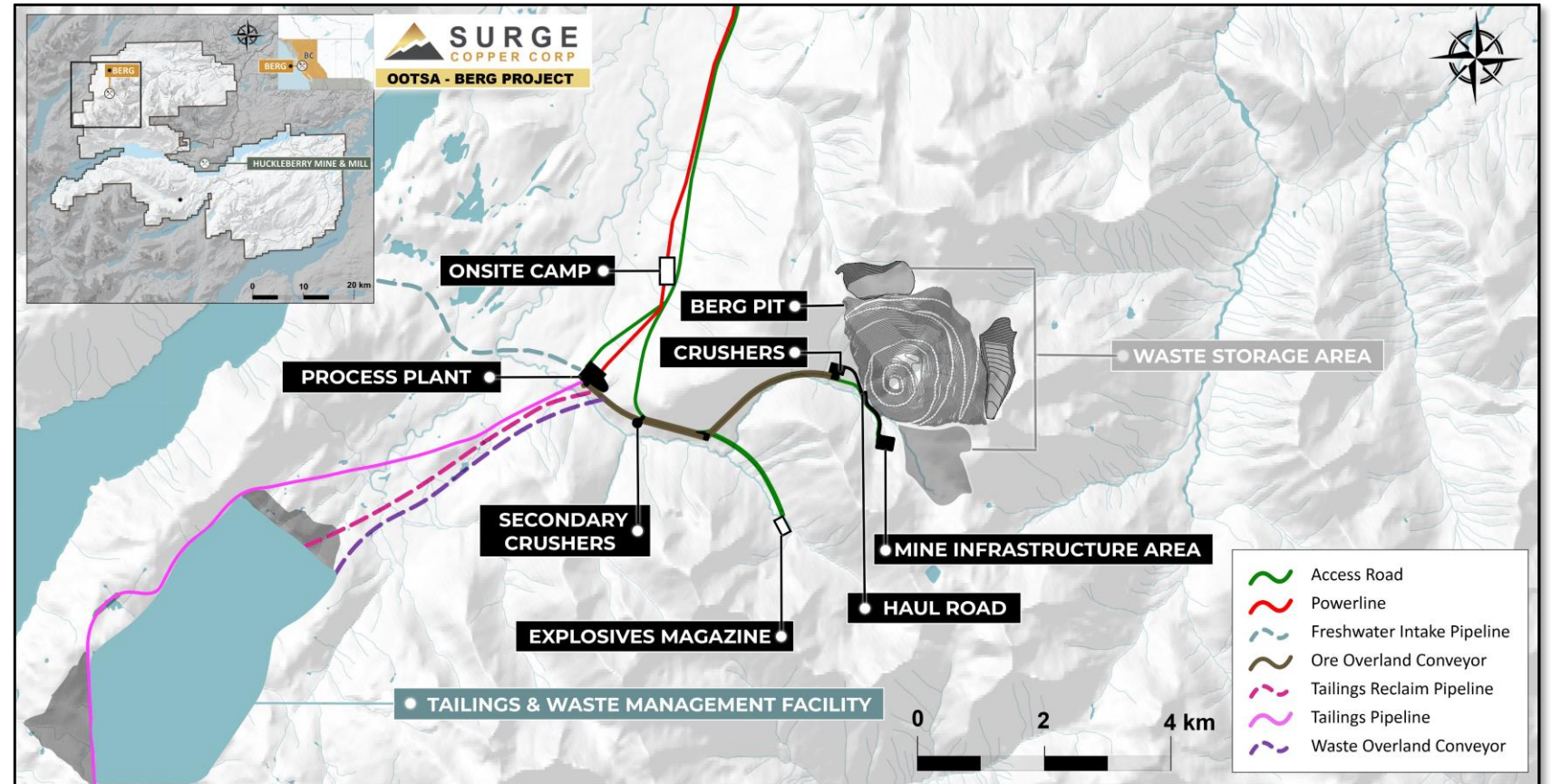


# Simple Project Design

LOW COMPLEXITY CONFIGURATION DESIGNED TO MINIMIZE ENVIRONMENTAL FOOTPRINT & CARBON EMISSIONS

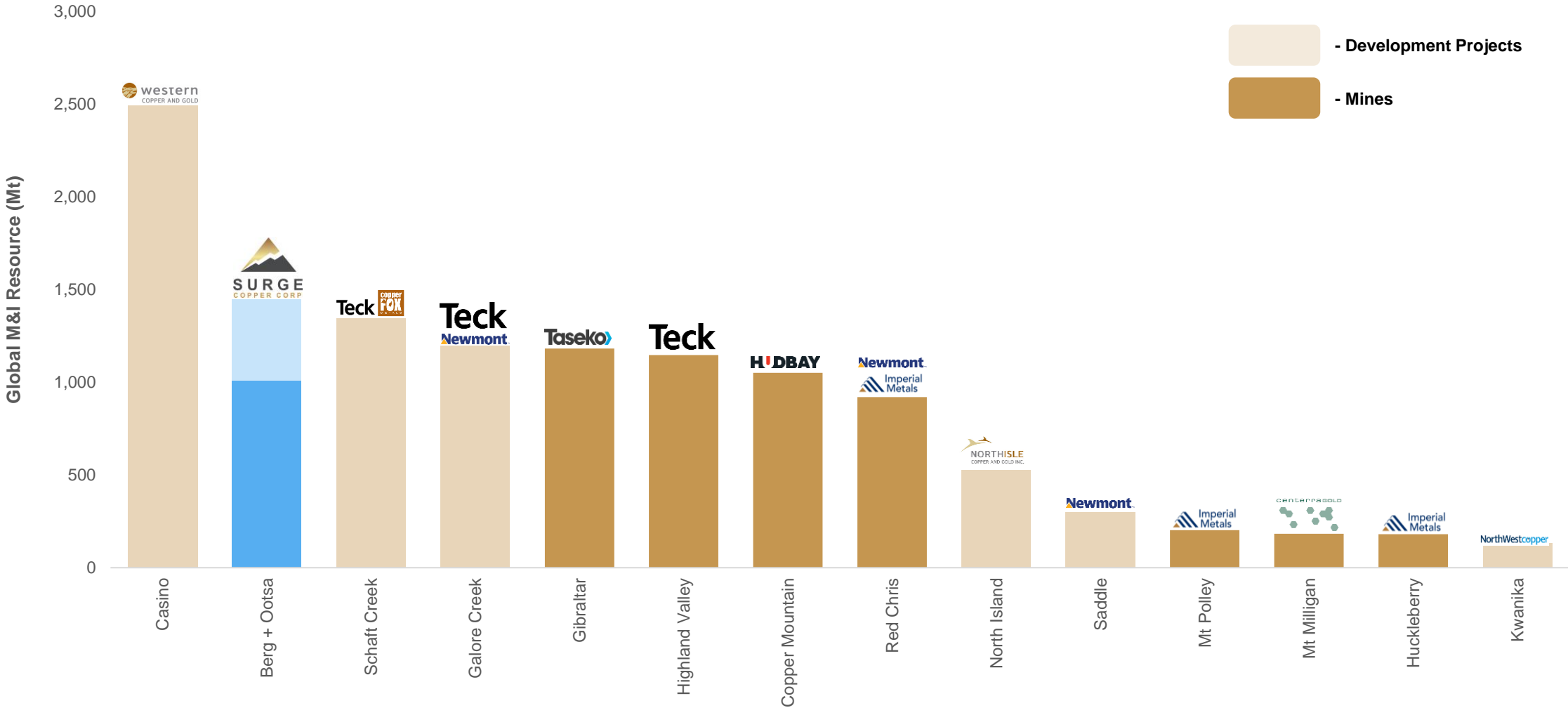
## Highlights

- ✓ Single, long-life open pit mine
- ✓ Use of downhill, electric-powered overland conveyors
- ✓ Conventional flowsheet to produce copper concentrate (with PM by-products) plus molybdenum concentrate
- ✓ Tie-in to BC Hydro grid and existing road networks



# One of the Largest Resource Bases in Western Canada

PRIMARY COPPER PORPHYRY DEPOSITS | M&I RESOURCE TONNES<sup>1</sup>





# Selected Comparables

## SINGLE-ASSET JUNIORS WITH LARGE-SCALE PORPHYRY DEVELOPMENT PROJECTS AND RECENT ECONOMIC STUDIES

	Project	Study / Year	Location	Mine Life	LOM CuEq <sup>1</sup>	LOM Capex (US\$ billions)	After-Tax NPV <sup>2</sup> (US\$ billions)	After-Tax IRR <sup>2</sup>	NPV / Capex	Capex / lb CuEq	Enterprise Value <sup>3</sup> (US\$ millions)	EV / NPV	EV / lb CuEq
 NorthWestcopper	Kwanika	PEA / 2023	BC, Canada	12 years	1.1 Blbs	\$1.0	\$0.3	18%	0.31 x	\$0.92	\$21	0.02 x	\$0.018
 hotchili limited	Costa Fuego	PEA / 2023	Atacama, Chile	16 years	3.6 Blbs	\$2.7	\$1.3	23%	0.46 x	\$0.75	\$89	0.03 x	\$0.024
 FARADAY COPPER	Copper Creek	PEA / 2023	Arizona, USA	32 years	3.5 Blbs	\$2.7	\$0.9	18%	0.34 x	\$0.76	\$94	0.04 x	\$0.027
 ARIZONA SONORAN COPPER COMPANY	Cactus	PFS / 2024	Arizona, USA	21 years	2.3 Blbs	\$1.7	\$0.6	17%	0.34 x	\$0.75	\$102	0.06 x	\$0.044
 OROCO	Santo Tomas	PEA / 2023	Sinaloa, Mexico	20 years	5.4 Blbs	\$2.7	\$1.2	17%	0.46 x	\$0.50	\$106	0.04 x	\$0.020
 LOS ANDES COPPER	Vizcachitas	PFS / 2023	Valparaiso, Chile	26 years	10.0 Blbs	\$3.9	\$3.4	27%	0.87 x	\$0.39	\$220	0.06 x	\$0.022
 western COPPER AND GOLD	Casino	FS / 2022	Yukon, Canada	27 years	9.4 Blbs	\$3.4	\$2.4	21%	0.70 x	\$0.36	\$223	0.07 x	\$0.024
 SolGold	Cascabel	PFS / 2024	Imbabura, Ecuador	28 years	9.6 Blbs	\$4.1	\$3.3	25%	0.81 x	\$0.43	\$380	0.09 x	\$0.040
 McEWEN COPPER	Los Azules	PEA / 2023	San Juan, Argentina	27 years	8.7 Blbs	\$4.9	\$3.1	23%	0.64 x	\$0.56	\$706	0.14 x	\$0.081
 Ivanhoe ELECTRIC	Santa Cruz	PEA / 2023	Arizona, USA	20 years	3.5 Blbs	\$2.1	\$1.5	-	0.71 x	\$0.61	\$1,145	0.54 x	\$0.327
<b>Median</b>				<b>24 years</b>	<b>4.5 Blbs</b>	<b>\$2.7</b>	<b>\$1.4</b>	<b>19%</b>	<b>0.55 x</b>	<b>\$0.58</b>	<b>\$163</b>	<b>0.06 x</b>	<b>\$0.026</b>
 SURGE COPPER CORP	Berg	PEA / 2023	BC, Canada	30 years	6.0 Blbs	\$2.7	\$1.5	20%	0.56 x	\$0.45	\$20	0.01 x	\$0.003

1) LOM CuEq represents life of mine recoverable copper equivalent assuming US\$4/lb Cu, US\$15/lb Mo, US\$1,800/oz Au, and US\$23/oz Ag.

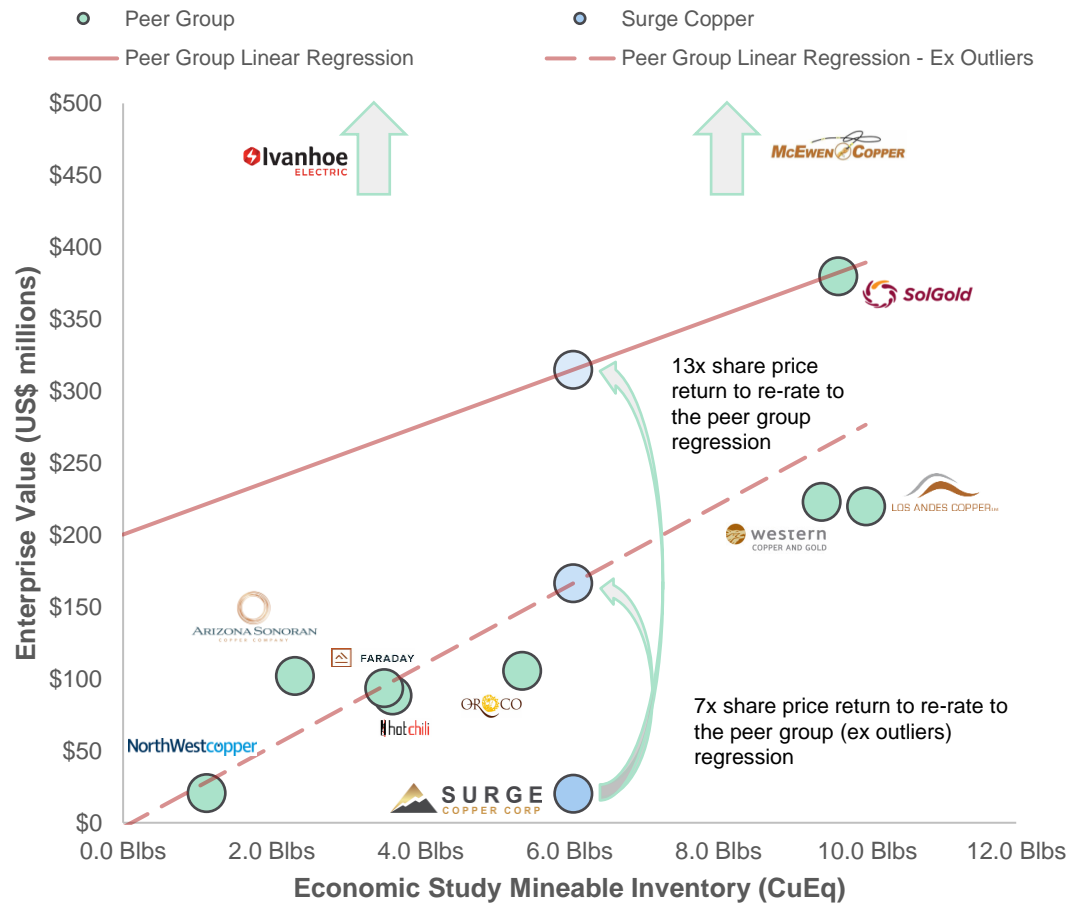
2) After-Tax NPV and IRR are shown on a normalized basis by calculating a linear interpolation between high and low cases from sensitivity tables in company disclosure to approximate after-tax US\$NPV<sub>8%</sub> and after-tax IRR at US\$4/lb Cu ignoring differences in by-product commodity prices and FX assumptions.

3) Enterprise value is shown on an in-the-money diluted basis as of April 2024.

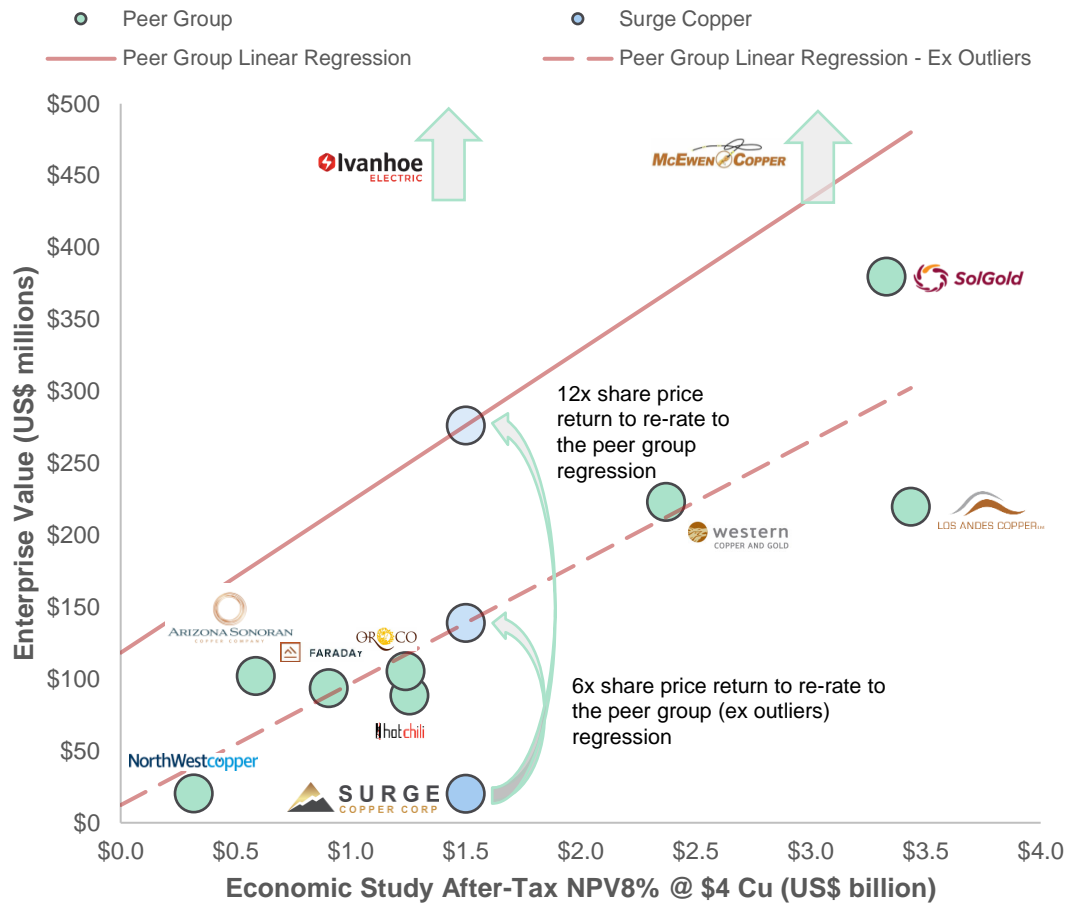
# Re-rating Potential

6X-13X SHARE PRICE RETURN REQUIRED TO BRING SURGE IN LINE WITH PEER GROUP

## EV/CuEq Re-rating Potential<sup>1</sup>



## EV/NPV Re-rating Potential<sup>2</sup>

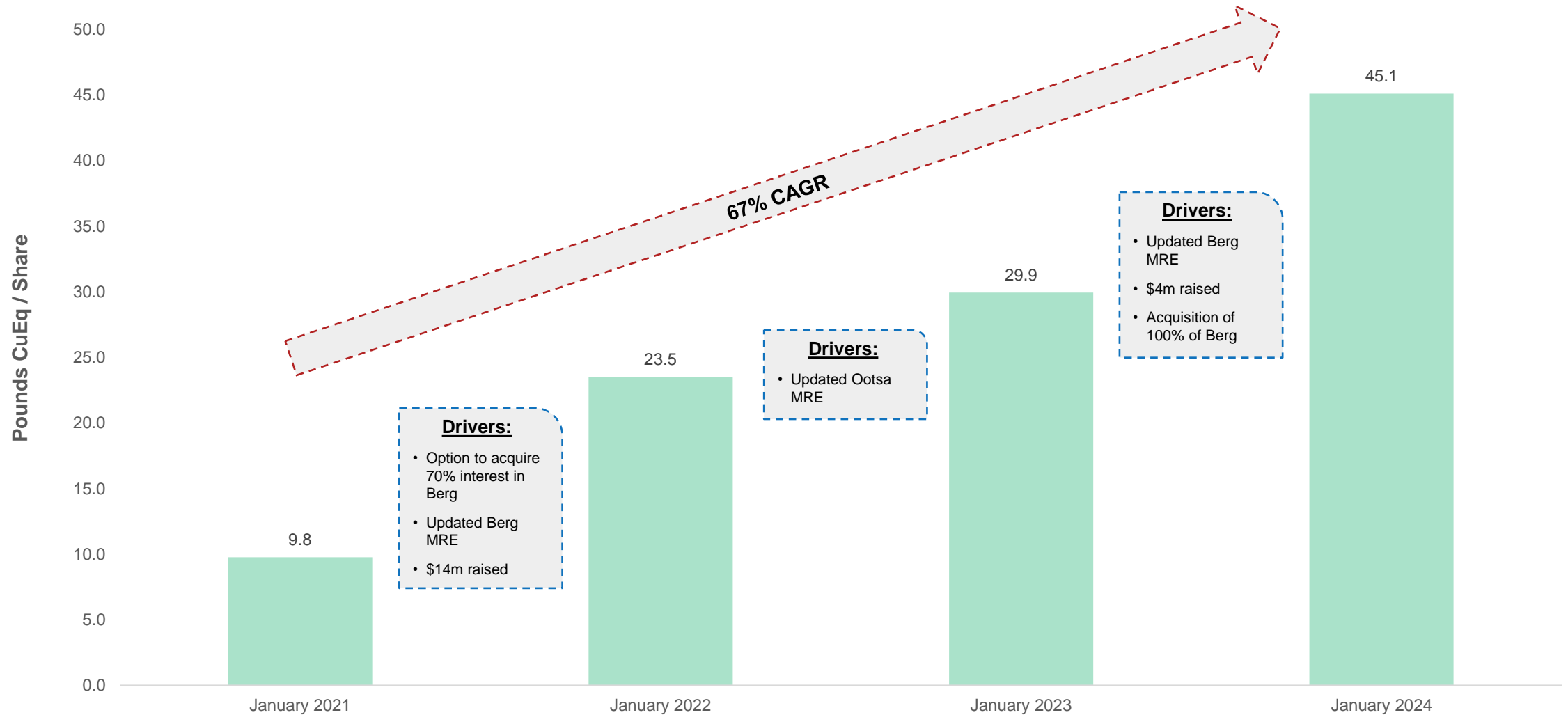


1) Assumes mineable inventory of recoverable copper equivalent from economic studies is a fundamental driver of enterprise value and that a linear relationship exists between the two. Ignores differences in attributable ownership of underlying projects. Based on data from prior page. See footnotes 1 and 3 on prior page.  
 2) Assumes after-tax NPV from economic studies is a fundamental driver of enterprise value and that a linear relationship exists between the two. By convention, economic study NPV estimates are discounted to start of construction, so ignores differences in estimates of time to potential construction date. Based on data from prior page. See footnotes 2 and 3 on prior page.



# Track Record of Growth in Per Share Resource Exposure

MEASURED & INDICATED CuEq<sup>1</sup> RESOURCE PER FULLY DILUTED SHARE

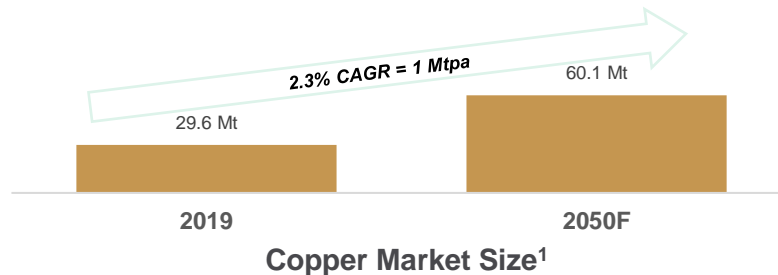


# What is the opportunity in copper?

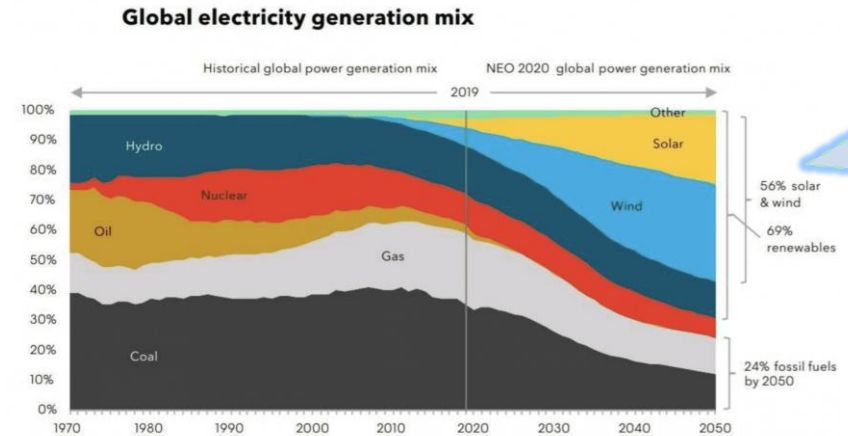
BIG MARKET + STRONG FUNDAMENTALS = ATTRACTIVE TO MAJORS

## Copper is the quintessential electric metal

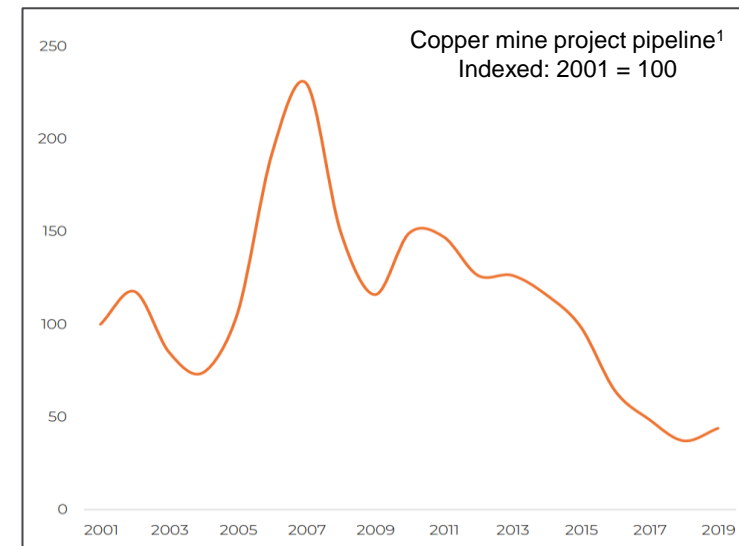
- Demand growth exposure to three “megatrends”:
  - 1 Urbanization, AI and infrastructure investment
  - 2 Growth in renewable energy installations
  - 3 Growth in electric vehicle production



- Supply response constrained by:
  - ? Reserve depletion and grade declines at major mines
  - ? Limited inventory of shovel-ready projects
  - ? Copper mine project pipeline at pre-supercycle lows



Source: BloombergNEF, IEA





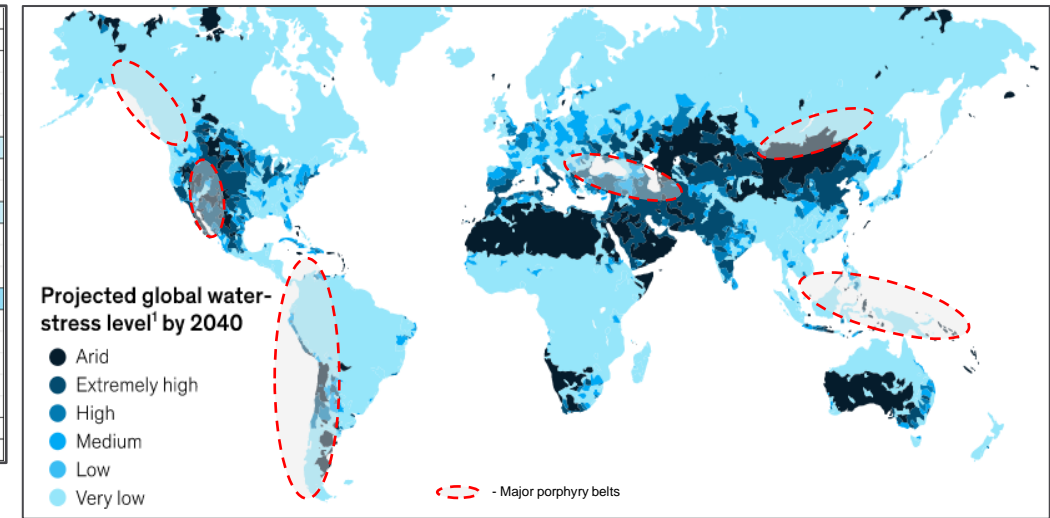
# Why BC?

## TOP MINING JURISDICTION WITH THE RIGHT INGREDIENTS FOR AN ESG FOCUSED FUTURE

- British Columbia is a top mining jurisdiction that is well positioned for an ESG focused future
  - ✓ Stable jurisdiction and fiscal regime
  - ✓ Clear and thorough environmental permitting process
  - ✓ Strong opportunities to partner with First Nations
  - ✓ World class infrastructure
  - ✓ Abundant fresh water resources
  - ✓ Renewables dominant energy infrastructure

Top Copper Producing Nations: 2023			
Country	Rank	Cu k mt	% Total
Chile	1	5.0	23%
Peru	2	2.6	12%
DRC	3	2.5	11%
China	4	1.7	8%
USA	5	1.1	5%
Russia	6	0.9	4%
Indonesia	7	0.8	4%
Australia	8	0.8	4%
Zambia	9	0.8	3%
Mexico	10	0.8	3%
Kazakhstan	11	0.6	3%
Canada	12	0.5	2%
Poland	13	0.4	2%
Panama	14	0.3	2%
Brazil	15	0.3	1%
Mongolia	16	0.2	1%
Other	n/a	2.8	13%
Total Production		22.0	100%

Source: US Geological Survey



## Large mining companies active in BC



*"Mining and mineral exploration is a foundational part of B.C.'s economy and key to building a stronger and more sustainable British Columbia - one where everyone shares in our prosperity." – Former Premier John Horgan, July 15, 2021*

Over **98%** of grid electricity in British Columbia is generated from **renewable resources**

# Advancing a Canadian Critical Metals District

## THREE BUCKETS OF VALUE CREATION POTENTIAL

### Berg Project

- Successfully delivered a robust maiden PEA<sup>1</sup> with base case economics of **NPV8% of C\$2.1 billion** and **20% IRR**
- **Simple stand-alone open pit** mine and concentrator with tie-in to **existing infrastructure** including roads and hydropower
- Design approach prioritizes energy efficiency and electrification to **reduce carbon emissions footprint**
- **Long-life project** with high outputs of **metals critical to the energy transition**

### Ootsa Project

- The Ootsa project (Seel and Ox porphyry deposits plus Seel Breccia Zones) has been advanced through **extensive resource drilling** and **metallurgical test programs**
- 2016 PEA outlined integration scenario with neighbouring Huckleberry mine highlighting **low-capex opportunity** to extend operating life of existing infrastructure
- Updated 2022 resource demonstrates **significant metal endowment** and ongoing **expansion potential of near-surface zones**

### Regional Exploration

- Surge has made significant investments in 2021-2022 to progress the promising **regional exploration potential** in the Berg-Huckleberry-Ootsa district
- Acquisition of **new district wide** datasets including airborne **ZTEM** and magnetics
- Over 4,000 soil and 500 rock samples and 24 ground IP lines across numerous target areas
- **15,300 metres** over 38 holes of target drilling
- **Three new drill discoveries** made and significant advancement of greenfields targets





# Ootsa Project

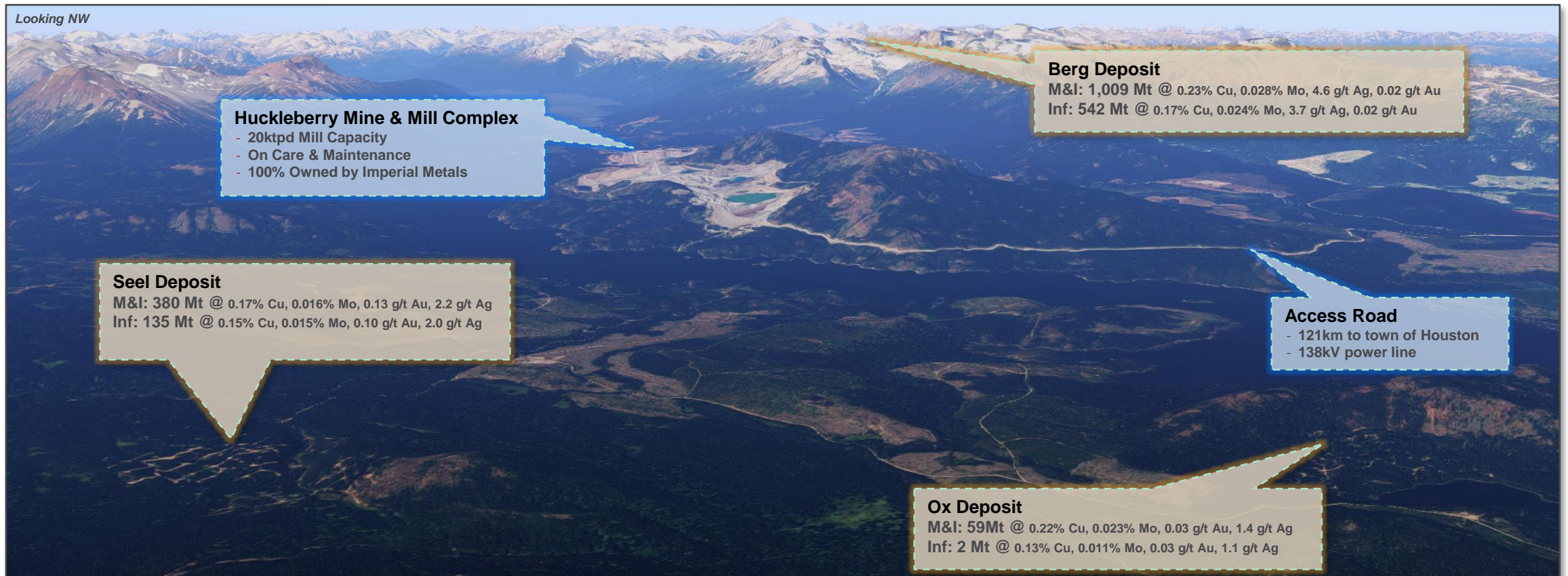


# Ootsa Project

TWO PORPHYRY COPPER DEPOSITS | TOTAL M&I RESOURCES OF 439MT<sup>1</sup>

## Favourable Location – Central B.C. Interior

- The deposits at Ootsa are favourably located adjacent to Imperial Metals' Huckleberry Mine & Mill complex
- The project area has gentle rolling topography, a mild climate, and is well serviced by road, power, and water



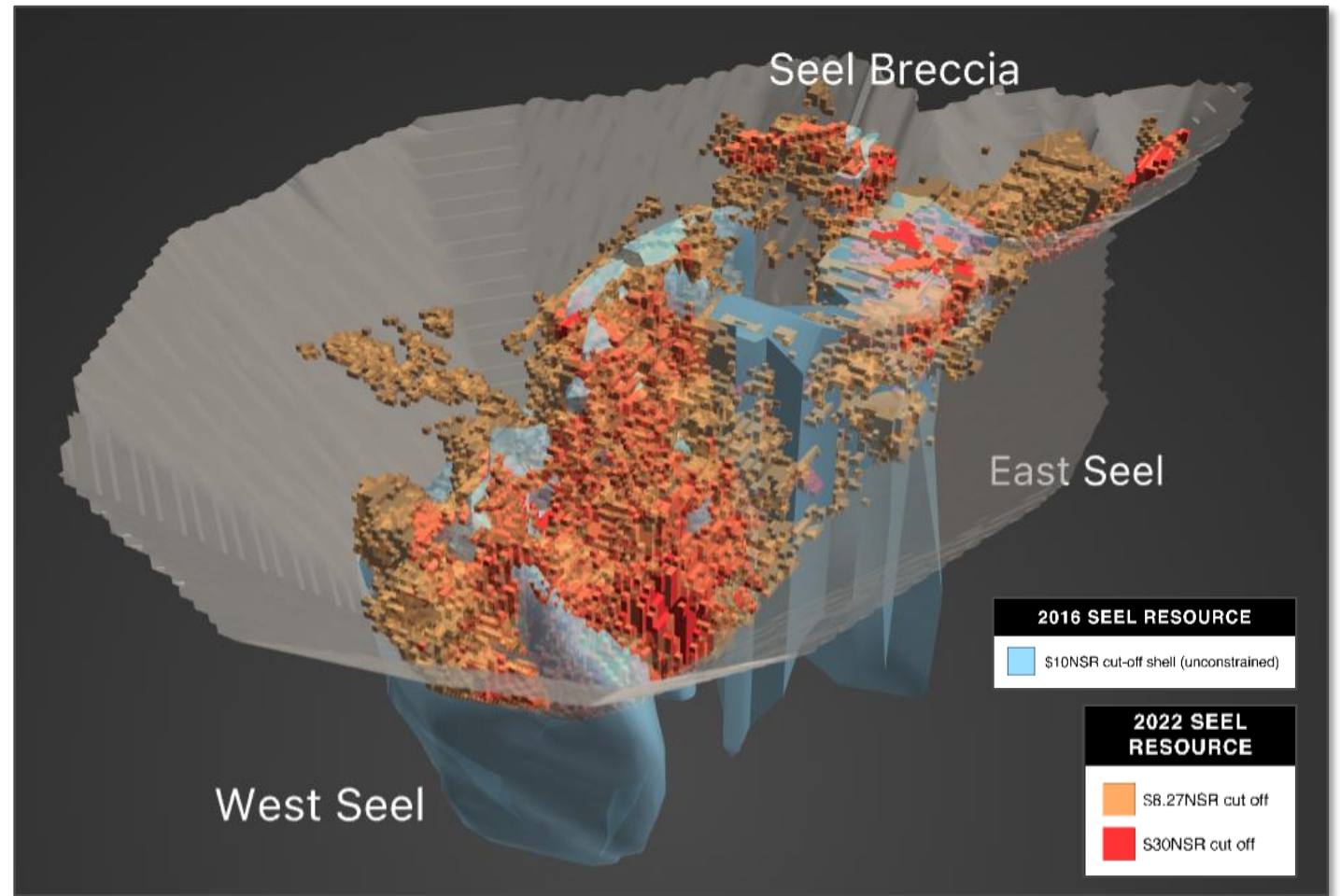
# Significant Increase in Resources

INCREASE OF 96% IN M&I RESOURCE<sup>1</sup>

## Highlights

- Approximately 50,000 metres of drilling completed since 2018 at Seel has significantly expanded mineralization in key areas, relative to the prior 2016 resource estimate
- New drilling helped support a 96% increase in Measured & Indicated resource tonnes relative to 2016
- Seel Breccia zone approximately quadrupled in size and remains open to the east

*Interactive 3D model available on our website and Vrify.com*







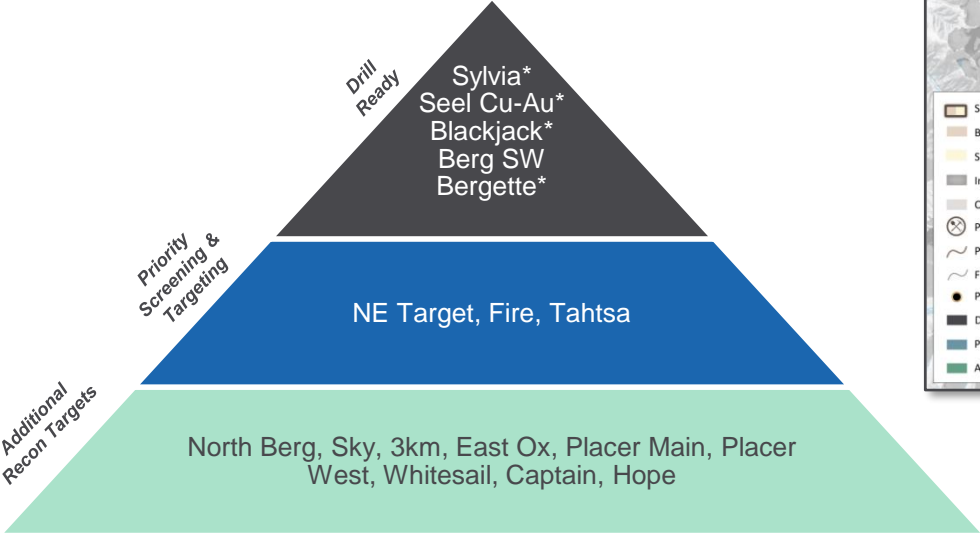
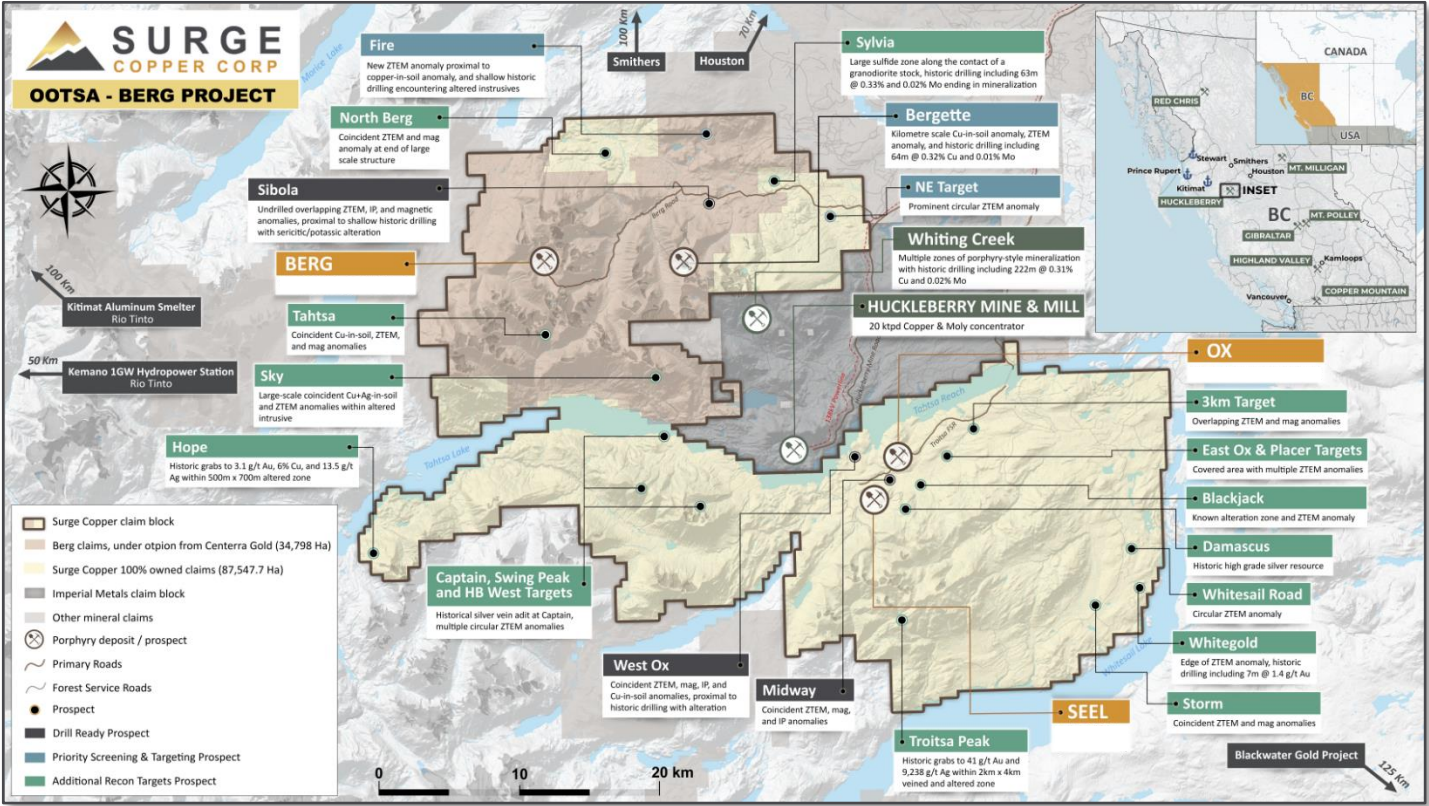
# Regional Exploration



# District Scale Exploration Opportunity

LARGE PIPELINE OF TARGETS IN ONE OF BC'S MOST PROSPECTIVE COPPER DISTRICTS

- ✓ Surge controls 125,499 hectare contiguous claim block
- ✓ Dominant land position in ~50km strike length porphyry copper belt
- ✓ Pipeline of regional prospects being tested and advanced

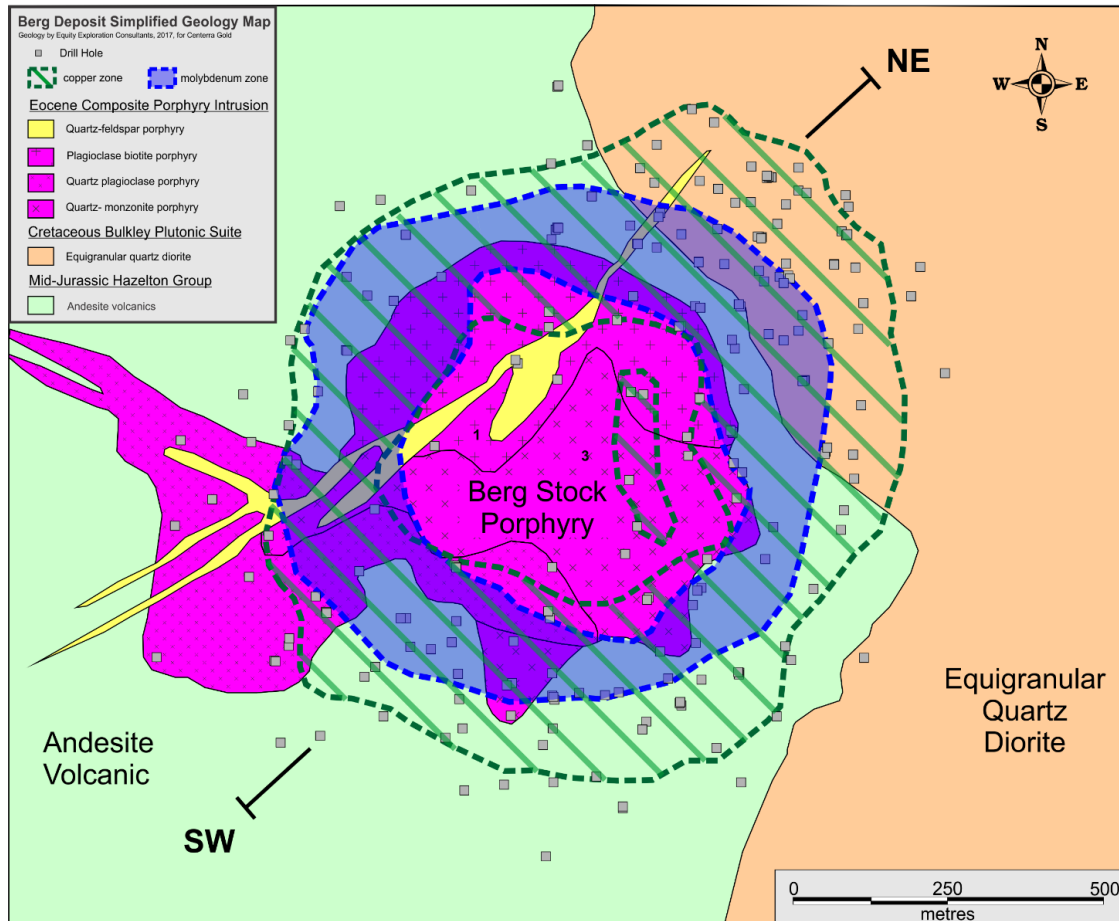


\* Drilled during 2022 program.

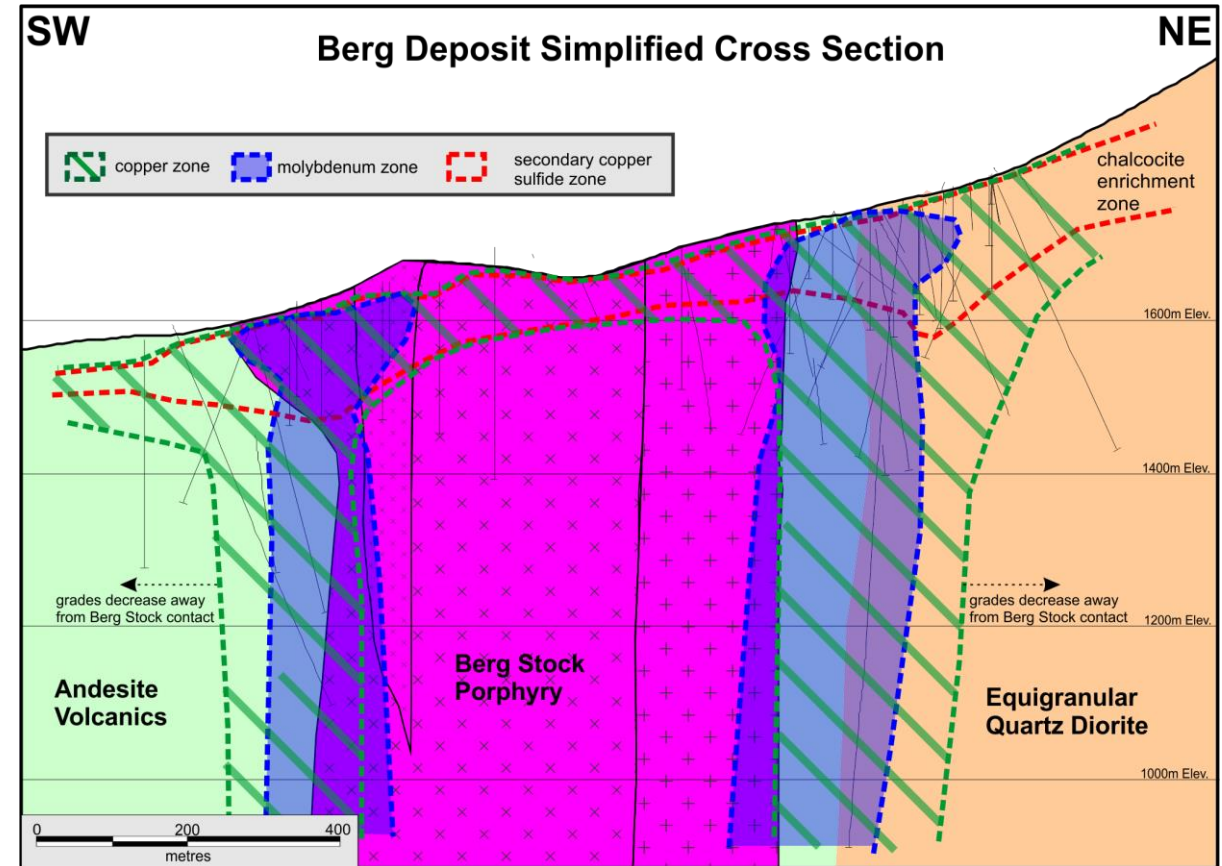
# Berg Deposit Geological Model

## SIMPLIFIED GEOLOGICAL MODEL

### Plan View



### Cross Section



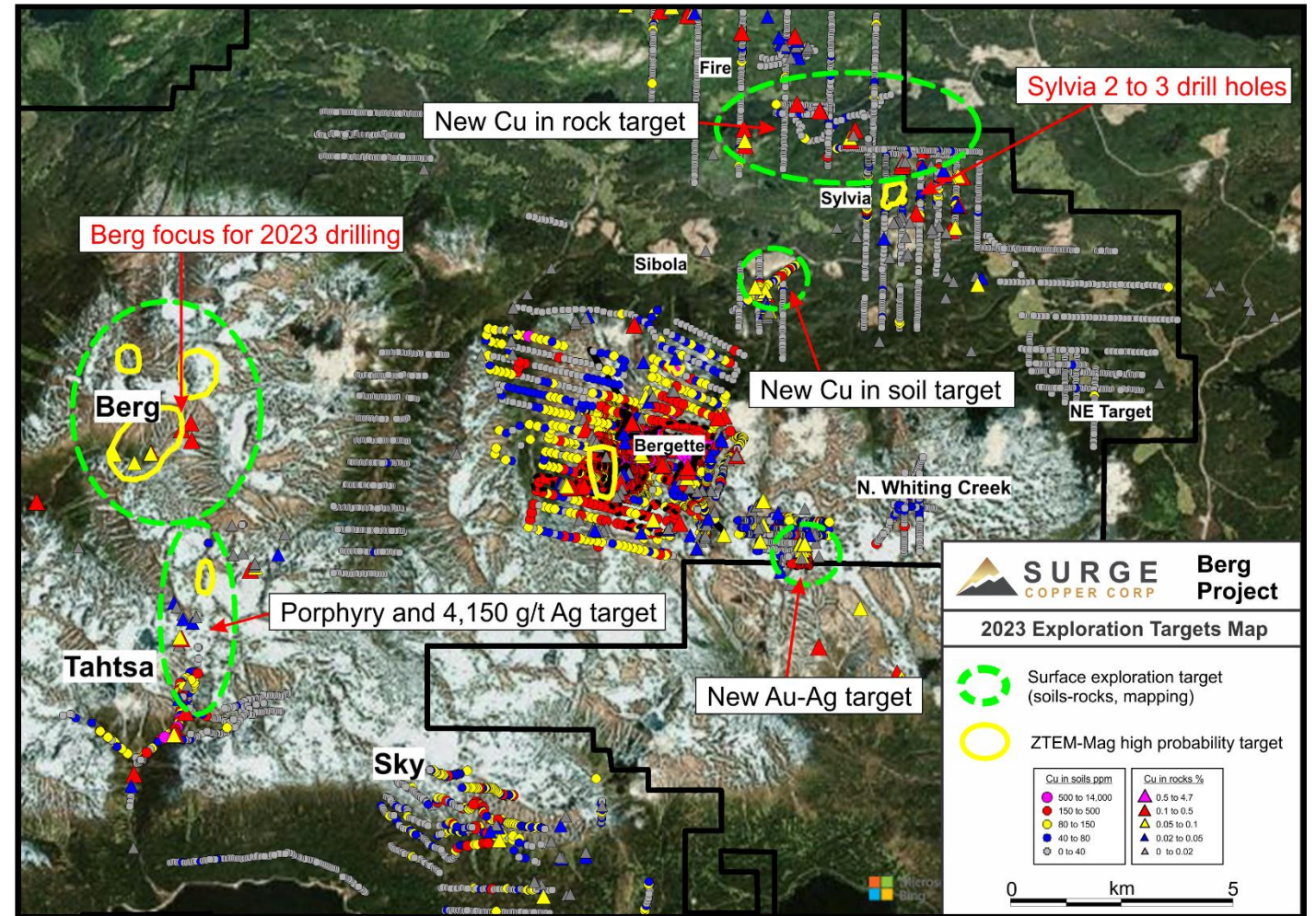


# Berg 2023 Exploration Program

MAJORITY FOCUS AT BERG WITH SMALLER START UP ON PRIORITY TARGETS FROM 2022

## Overview

- 2023 program operated from July to early September
  - Completed three diamond core holes totalling 2,077 metres
  - Holes designed to test deeper portions of Berg deposit, potentially convert some Inferred resources to M&I, and provide fresh material for met work
  - Additional surface exploration conducted near Berg deposit
- Focused surface exploration programs on East Sibola, Sylvia, Fire, and Berg

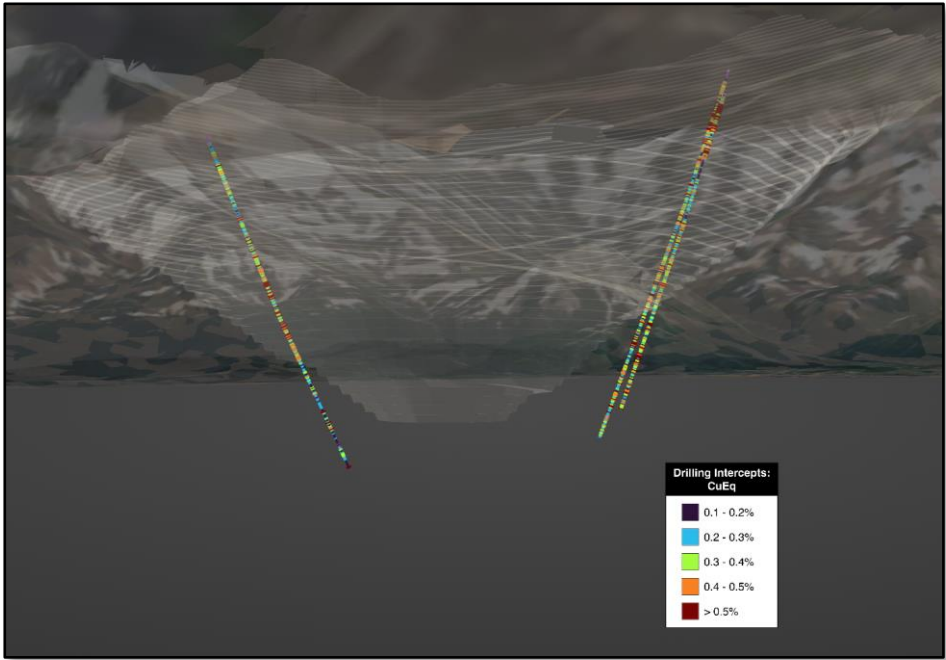
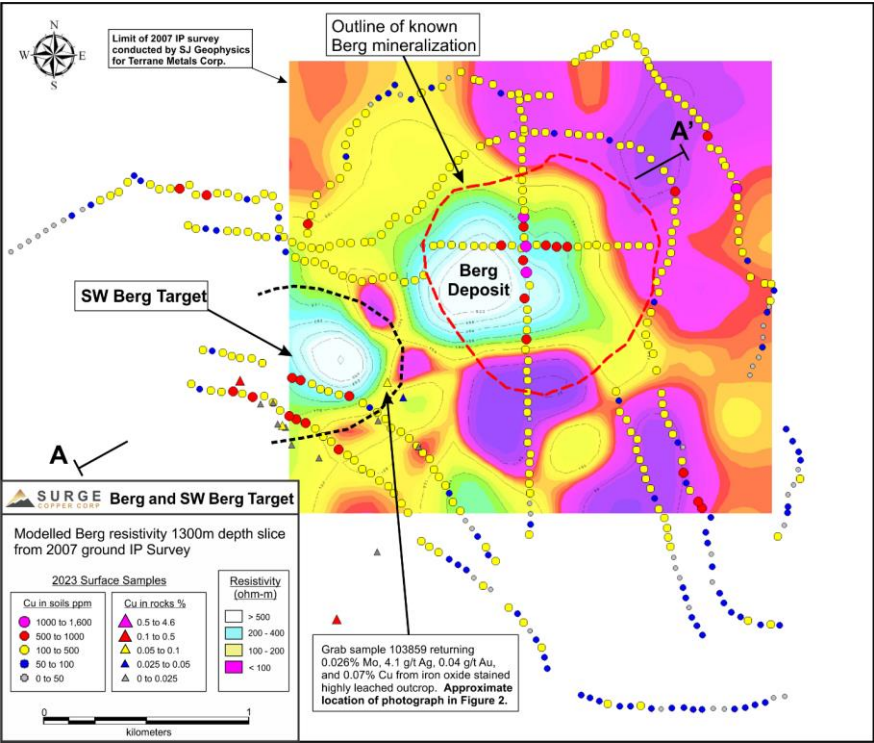


# Berg 2023 Exploration

THREE CORE HOLES FOR 2077M | TARGETING DEEPER PORTIONS OF BERG DEPOSIT ALONG PERIPHERY OF DEPOSIT

## Highlights

- New Cu-in-soil anomaly outlined to the SW of Berg deposit
  - Similar size and magnitude as the Cu expression over Berg
  - Never identified historically and never drilled



Drill Hole	From (m)	To (m)	Width (m)	CuEq (%)	Cu (%)	Mo (%)	Ag (g/t)	Au (g/t)
BRG23-243	22.0	778.0	756.0	0.36	0.26	0.026	3.6	0.02
chalcocite blanket	34.0	206.0	172.0	0.40	0.35	0.008	2.8	0.03
moly zone	562.0	764.0	202.0	0.37	0.20	0.051	3.6	0.02
BRG23-244	12.0	639.0	627.0	0.35	0.25	0.026	3.5	0.02
chalcocite blanket	28.0	136.0	108.0	0.46	0.42	0.007	2.6	0.03
moly zone	560.0	639.0	79.0	0.33	0.07	0.085	2.8	0.01
BRG23-245	14.0	660.0	646.0	0.33	0.21	0.034	3.3	0.02

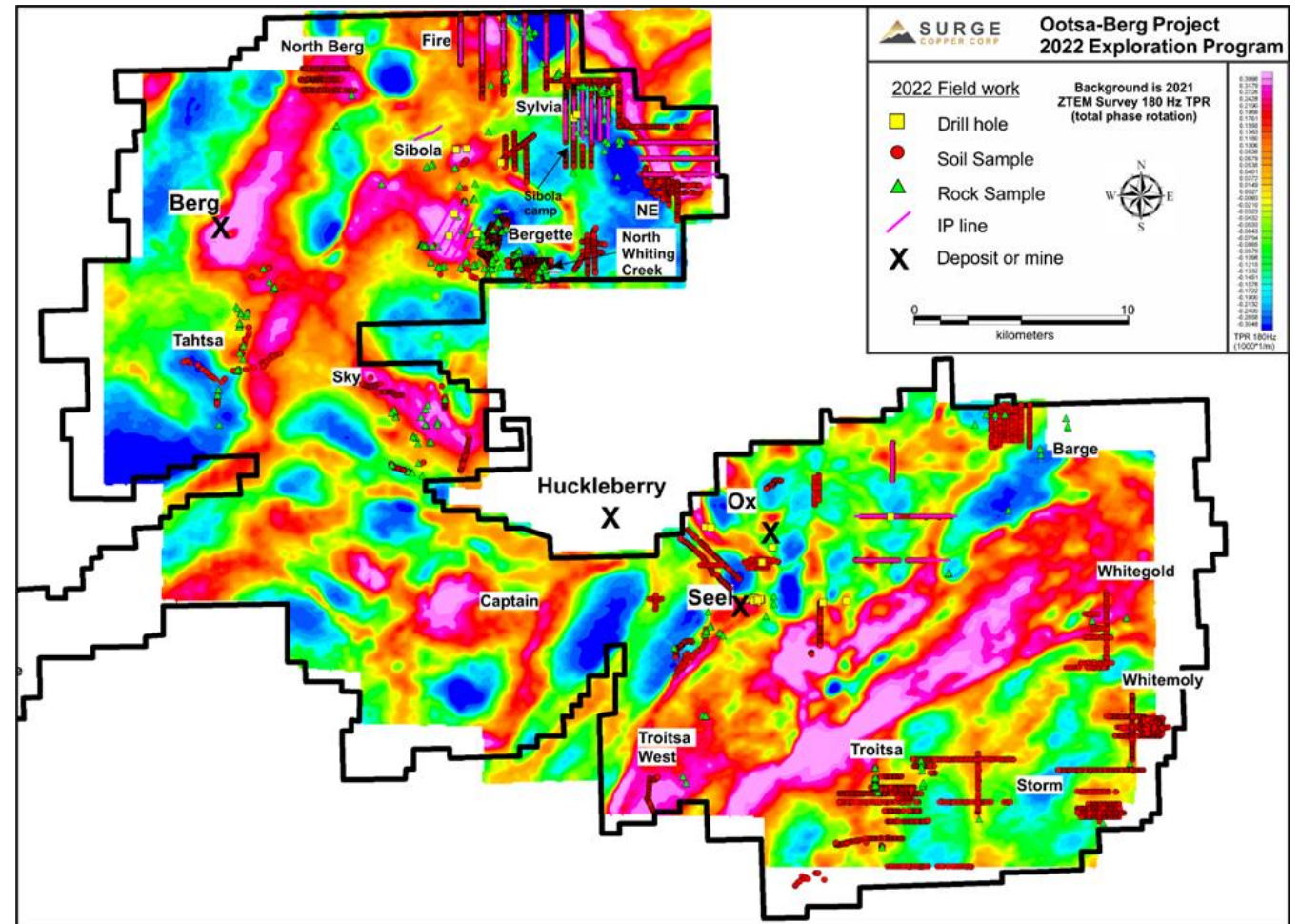


# 2022 Regional Reconnaissance Program

WIDESPREAD SURFACE EXPLORATION COMPLETED ACROSS COMBINED OOTSA & BERG PROPERTIES

## Highlights

- 23 IP lines in 5 grids
- 4,481 soil samples and 337 rock samples plus extensive surface mapping
- Selected results:
  - Expansion of Bergette Cu-Mo-in-soil anomaly to 2.7 x 1.7 kms
  - New 1-km long Cu-in-soil anomaly outlined at Sibola target, east of ZTEM anomaly
  - Bulk-tonnage precious metal target identified at North Whiting Creek based on surface grab samples within a larger Zn-Pb-Cu-in-soil anomaly
  - High-grade Cu identified in grab samples from mineralized outcrop north of the known Sylvia intrusion





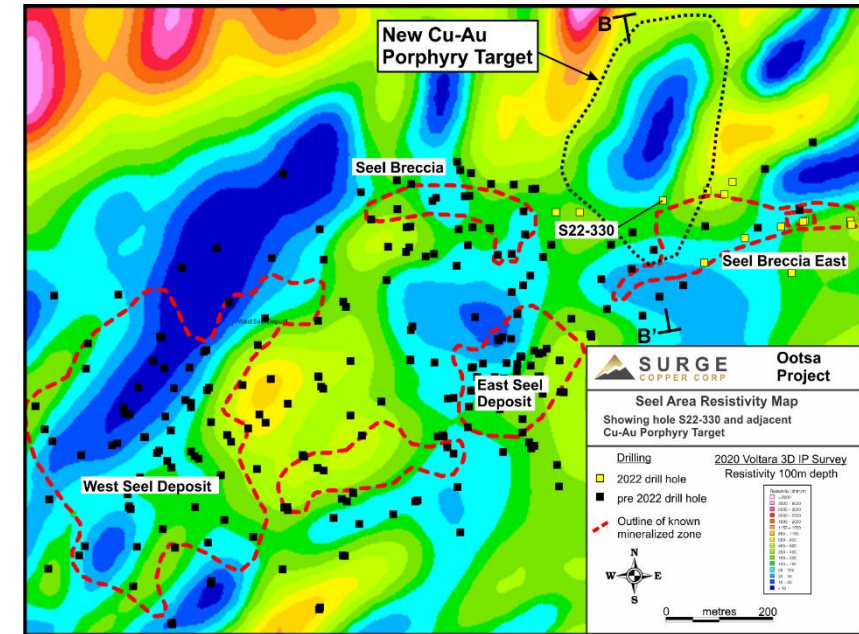
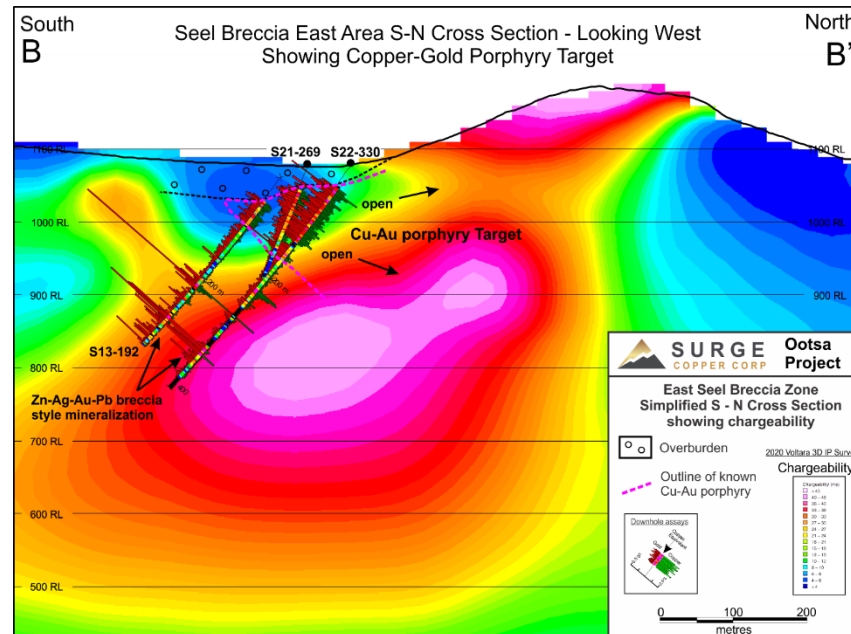
# 2022 Regional Program: New Cu-Au Porphyry Potential at Seel

NEW NEAR-SURFACE CU-AU TARGET JUST TO THE NORTH OF EAST SEEL

## Highlights

- Holes S22-328 and 330 were drilled along the northern margins of the Seel Breccia East Zone (angled south) and encountered >100m intervals of copper-gold porphyry mineralization starting from 6m and 40m
- Coincident with IP chargeability and resistivity anomalies that extend to the north in an undrilled area (see images)
- Opens up exploration potential for a second East Seel style mineralized intrusive in the area, or could be a down-dropped fault offset portion of the main East Seel deposit

*South-North cross section through the new Cu-Au porphyry target area and Seel Breccia East zone showing 3D IP chargeability and drill holes.*



*Resistivity map at 100 metres depth over the Seel deposit area showing the outline of known deposits, 2022 and older drill holes, and the new proposed Cu-Au porphyry target.*

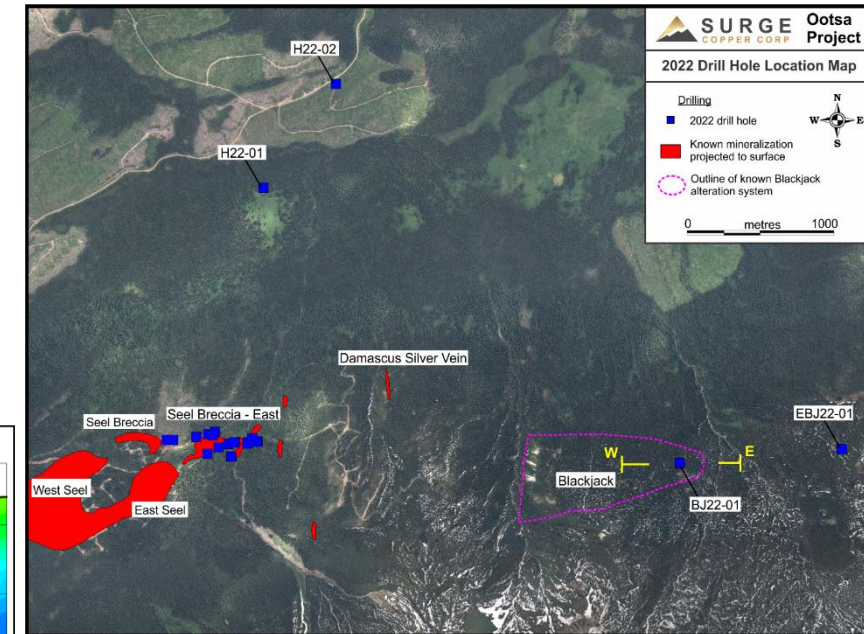
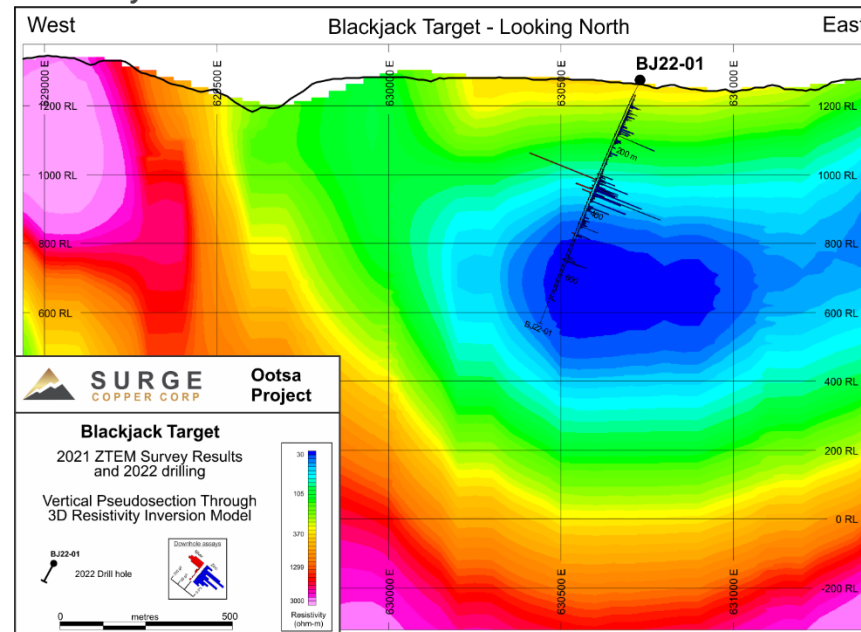
# 2022 Regional Program: New Silver Discovery at Blackjack

VERY LARGE AND HIGHLY ALTERED INTRUSIVE CENTRE PROSPECTIVE FOR PM'S AND WIDE OPEN FOR FURTHER DISCOVERY

## Highlights

- Holes BJ22-01 was testing a large ZTEM anomaly and encountered a wide zone of Ag-Au-Pb-Zn mineralization in addition to 3 individual high-grade veins
  - 66m grading 71.3 g/t silver including 46m grading 99.4 g/t silver including:
    - 1,430 g/t Ag over 2 metres
    - 346 g/t Ag over 2 metres
    - 180 g/t Ag over 2 metres
- Highly altered porphyry centre represents kilometre scale exploration target prospective for near surface epithermal gold-silver, silver-gold-lead-zinc veins and breccias, and copper-gold-moly mineralization at depth

*Blackjack Target E-W cross-section showing ZTEM resistivity and hole BJ22-01.*



*Ootsa Property 2022 Drill Hole Location Map showing the Blackjack Target*



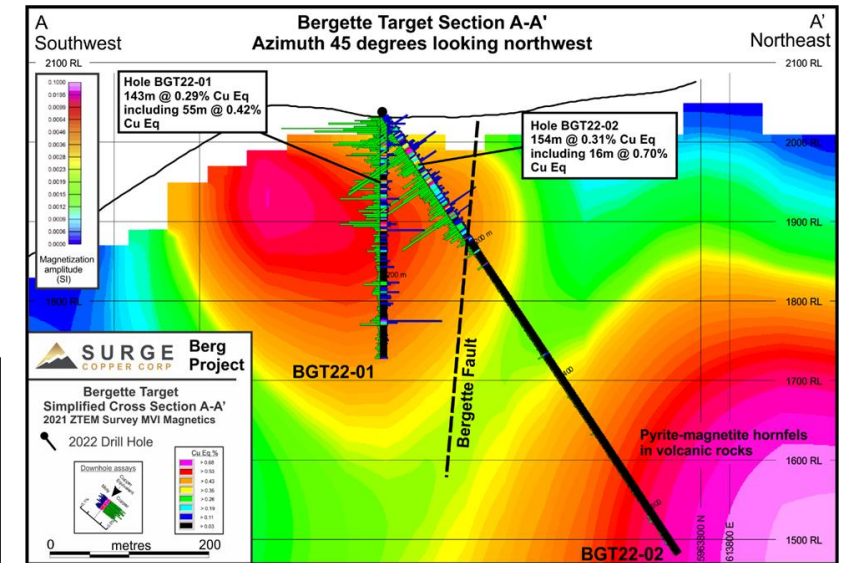
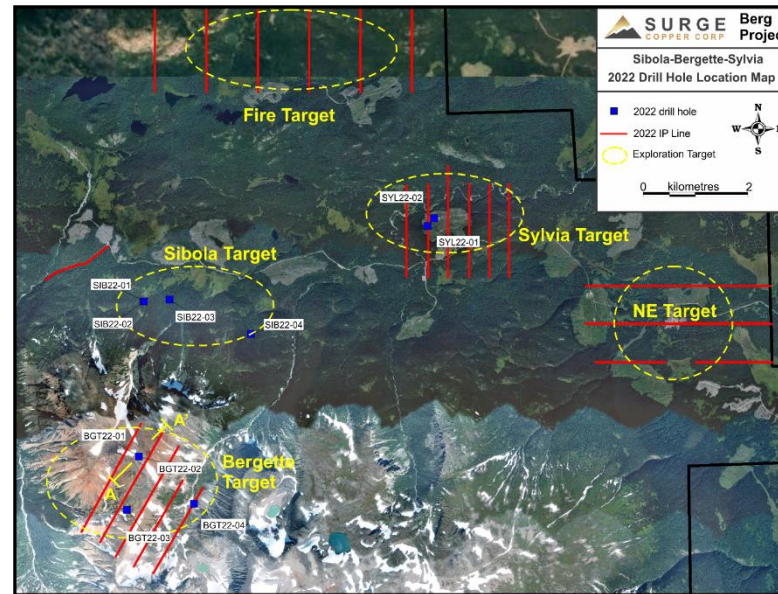
# 2022 Regional Program: Bergette Porphyry Target

LARGE-SCALE COPPER PORPHYRY TARGET APPROXIMATELY 10KM EAST OF THE BERG DEPOSIT

## Highlights

- Holes BTG22-01 (vertical) and 02 (angled to the northeast) were drilled from the same pad at Bergette, targeting updated geochemical, magnetic, and chargeability anomalies
- Both holes encountered mineralization in the near-surface portions of the holes, associated with moderate magnetic and chargeability values, and hosted in stockwork quartz veining containing magnetite-chalcopyrite-molybdenite-pyrite
- Highlighted results include:
  - BGT22-01: 143m @ 0.23% Cu, 0.010% Mo, and 0.03 g/t Au from 3m depth
  - BGT22-02: 176m @ 0.22% Cu, 0.012% Mo, and 0.03 g/t Au from 8m depth

Northeast part of the Berg Property showing 2022 drill holes, IP lines, and section A-A' location



Bergette target section A-A' looking northwest showing drill traces for BGT22-01 and 02





**Corporate Info**



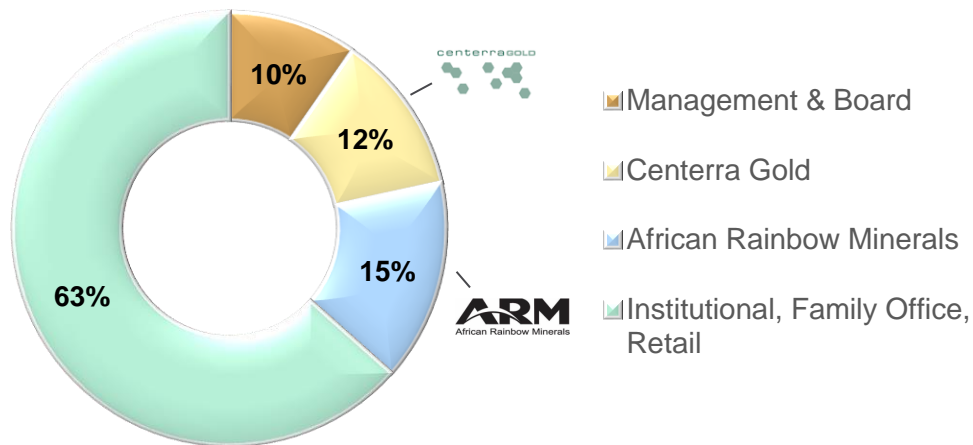
# Capitalization

ALL-EQUITY CAP STRUCTURE

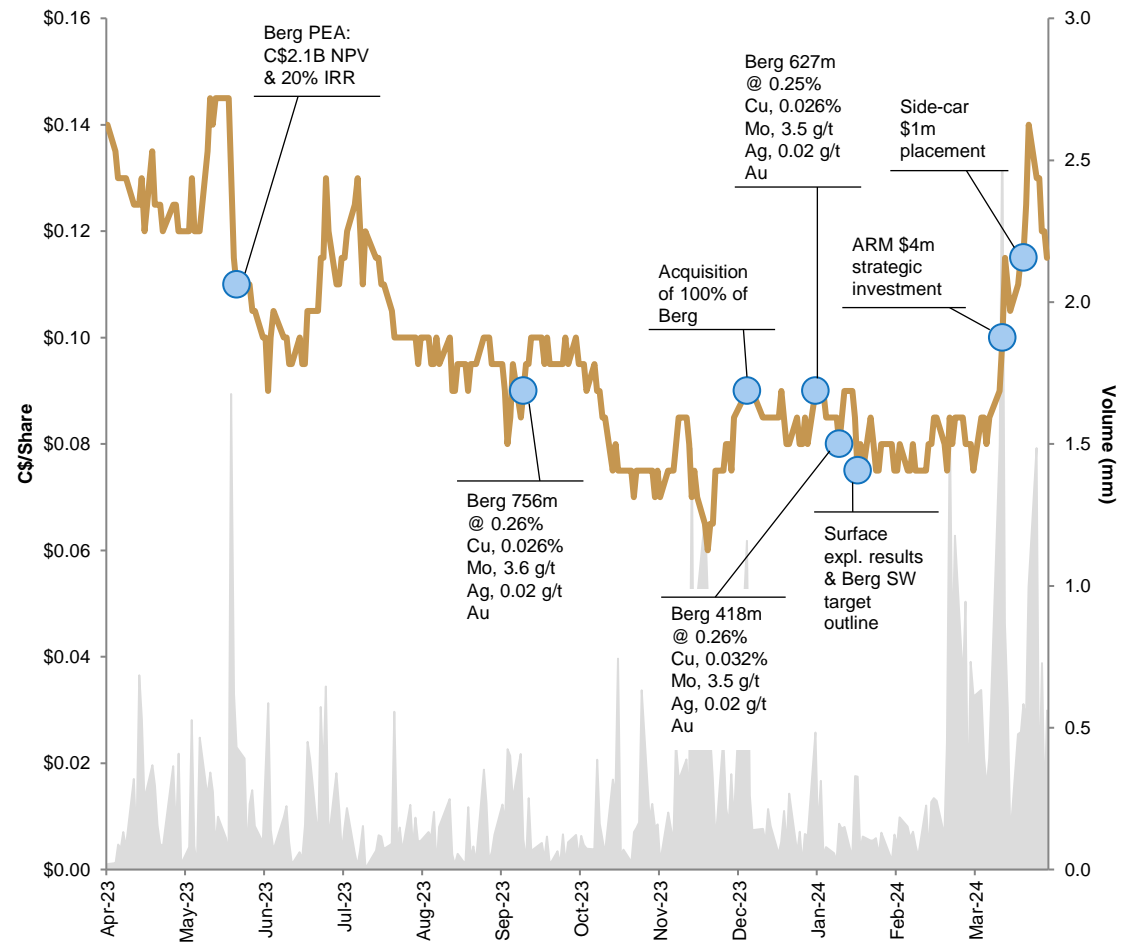
## Equity Capitalization<sup>1</sup>

Basic Shares Outstanding	275.8M
<b>Market Cap</b>	<b>\$31.7M</b>
Cash	\$5.0M
<b>Enterprise Value</b>	<b>\$26.7M</b>
Options, RSUs & DSUs	16.6M

## Shareholder Breakdown<sup>1</sup>



## Key Announcements over Last Twelve Months





# Surge Team

COMMITTED PROFESSIONALS WITH SIGNIFICANT EXPERIENCE IN OPERATIONS, EXPLORATION, AND FINANCE

## Management Team



### **Leif Nilsson** | Chief Executive Officer & Director

- Expertise in corporate finance, valuation, M&A
- Prior investment banking roles at Macquarie, Stifel, & CIBC
- Background in geophysics
- Degrees in physics (U of Toronto) and finance (INSEAD)



### **Shane Ebert, Ph.D., P.Geo** | President, VP Exploration, Director

- Expertise in porphyry geology and exploration design / execution
- Prior discoveries include West Seel, Bahuerachi, and Viking
- 30 years of experience with majors and juniors in ore deposit exploration and research
- Undergrad from U of Alberta and PhD from U of Western Australia



### **Mark Wheeler, P.Eng.** | VP Projects

- Expertise in technical program design and management
- Prior operations engineering roles at Teck (QB) and Barrick (Hemlo)
- Previously oversaw all technical and permitting programs for Treasury Metals
- Degrees in mining engineering (Queens) and business (Rotman)



### **Chantelle Collins, CPA, CGA** | CFO & Corporate Secretary

- Expertise in financial planning, control, and BC tax
- Has been with Surge for over 10 years
- Experience with multiple junior mining firms

## Board of Directors

### **Christian Kargl-Simard** | Non-Exec Board Chair

Metallurgical engineer, mining executive and former investment banker with a 17-year track record. Also serves as President and CEO of Adventus Mining. Prior investment banking roles at Raymond James and Haywood, and metallurgical engineering roles at Dynatec/Sherritt.

### **Leif Nilsson** | Chief Executive Officer & Director

See bio under Management

### **Shane Ebert** | President, VP Exploration, Director

See bio under Management

### **Richard Colterjohn** | Independent Director

Experienced mining executive, director, and former investment banker, with over 25 years of experience in the mining sector. Co-founder and managing partner of private investment firm Glencoban Capital Management. Has served on the boards of ten publicly traded mining companies.

### **John Dorward** | Independent Director

Experienced mining executive and director with over 25 years of experience. Most recently served as President, CEO and director of Roxgold Inc. until its sale in 2021. Prior finance and business development roles with several successful junior mining companies.

### **Pat Glazier** | Independent Director

BC based mining and lumber executive with 25-year track record. CEO of East Fraser Fiber Co Ltd. and previously served as director of Brazauro Resources Corp.

### **Jim Pettit** | Independent Director

Mining executive with 20-year track record and expertise in compliance, governance, and finance. Also serves as a director for numerous other publicly listed resource companies.





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Twitter: [@SurgeCopper](#)

**Contact Info**



# First Nation Involvement

SURGE'S EXPLORATION PROGRAMS AND WORK FORCE HAVE BENEFITED IMMENSELY FROM FIRST NATION SUPPORT & PARTICIPATION

## Our Approach

- Open communication and engagement regarding development approaches and challenges
- Efforts to define heritage or archaeological values during exploration work
- Site tours and meetings with representatives of First Nations leadership and staff to learn about First Nation concerns, history, land use, and interests
- Regular contact regarding current and future employment and business opportunities, and presentation of project updates
- Development of cooperation and engagement agreements, including:
  - Cheslatta Carrier Nation Letter of Understanding (2010, as amended in 2013) and Letter of Support (2013)
  - Office of the Wet'suwet'en Communications and Engagement Agreement (2013)
  - Skin Tyee Nation Cooperation Protocol Agreement (2014)

*Surge is committed to ongoing engagement and consultation with First Nations communities*



*Cheslatta Carrier Nation members have been regularly employed at the Ootsa Project, providing exploration and camp services*



*Since exploration began in 2004, Surge has conducted numerous site tours involving First Nation members, including Wet'suwet'en members pictured here*

# ESG a Driver of Long-Term Value Creation

INCREASED FOCUS ON ESG RESPONSIBILITIES, OPPORTUNITIES, AND BEST PRACTICES



## Environmental

- Focused on project design opportunities to minimize carbon footprint:
  - Access to BC grid electricity, which is >**98%** generated from **renewable** sources<sup>1</sup>
  - Electrified material movement through use of conveyance systems
- Adherence to the **e3 Plus Framework**<sup>2</sup> industry best practices for environmental stewardship during mineral exploration



## Social

- Field operations governed by up-to-date policies including emergency response, safety, cultural-heritage impacts, and wildlife preservation
- Up to **75%** of field personnel are from surrounding communities and receive on-the-job training
- Where possible, supplies and services are sourced locally
- Early stage exploration agreements in place with local First Nations and regular engagement and planning discussions with various First Nation stakeholders



## Governance

- Oversight responsibility from experienced board with majority independent members
- Committees comprised of independent directors and external advisors guide specific areas of activity
- Conduct policies in place for all employees and directors
- Adherence to rules and protocols outlined by TMX Group: TSX Venture Exchange Regulatory Policies and Procedures, IIROC, and BCSC

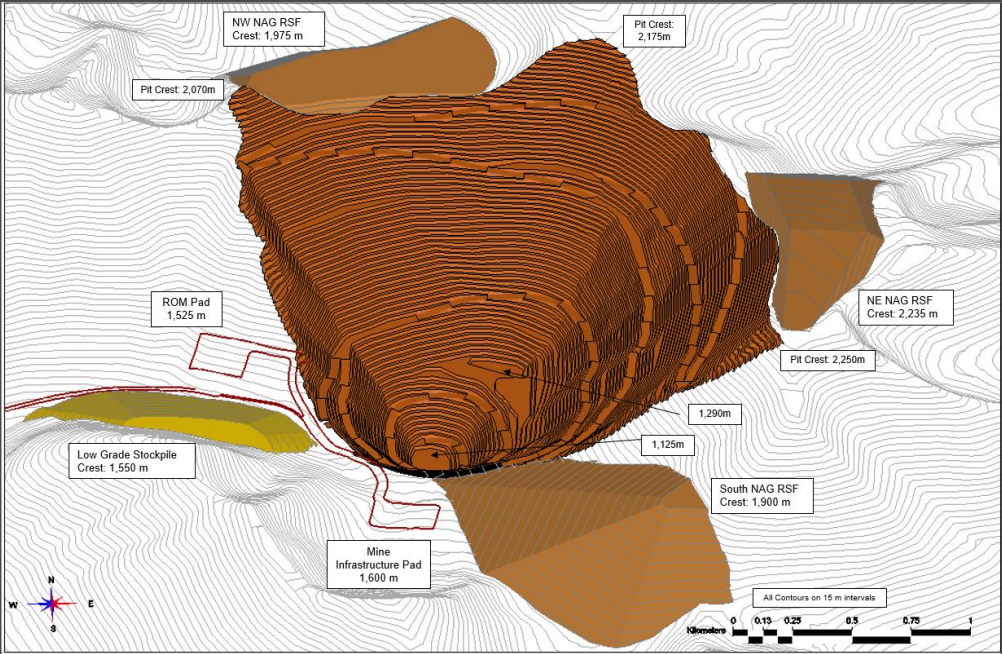


# Berg PEA Mine Plan

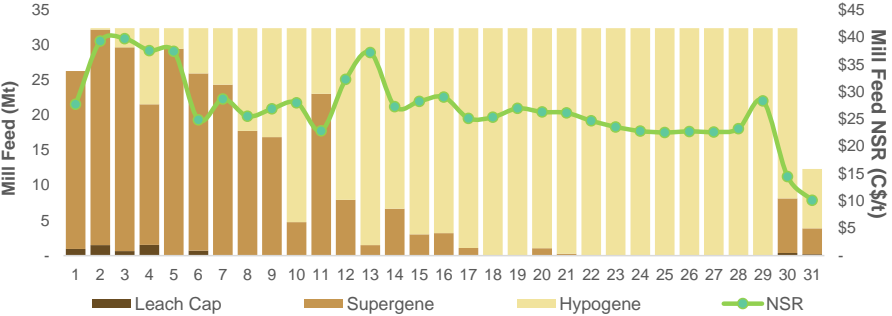
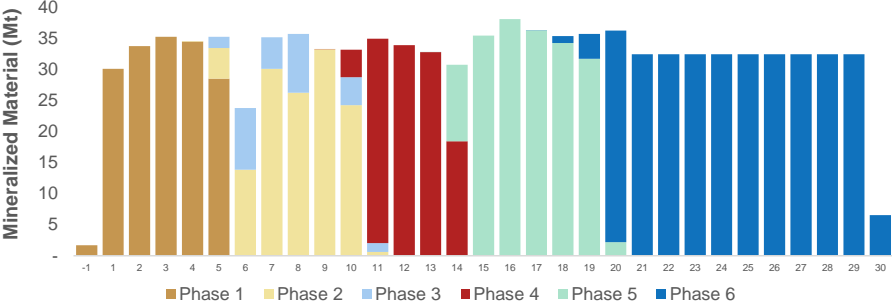
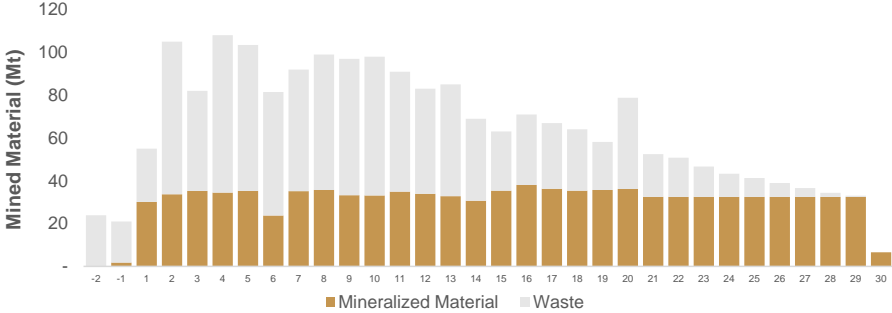
SIMPLE, SIX-PHASE OPEN PIT PLAN USING OWNER OPERATED FLEET

## Overview

- Conventional drill-blast-load-haul open pit
- Six engineered phases based on LG shells to ultimate pit allows better access to high grade material and low grade stockpiling
- LOM strip ratio of 1.1

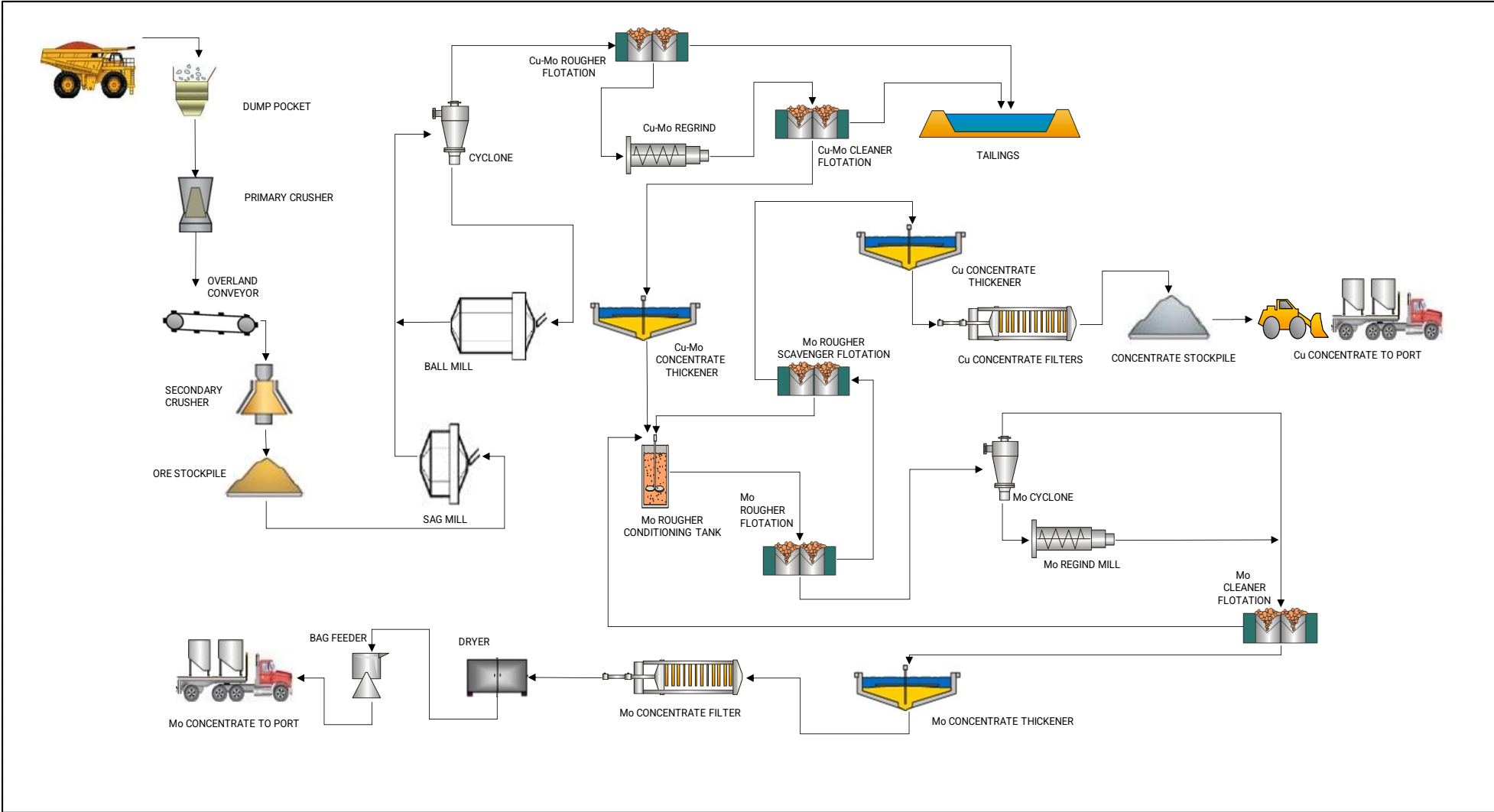


## Mine Plan Physicals



# Process Flowsheet

## CONVENTIONAL SULPHIDE FLOTATION AND MOLYBDENUM SEPARATION FLOWSHEET





# Opex Buildup

TOTAL ON-SITE UNIT OPERATING COSTS OF C\$10.66/T MILLED

## Overview

- Processing, mining, and G&A operating costs built up from first principles basis using recent benchmark data with certain items having quoted and available unit rates
- 50% of workforce would be local with hourly staff on a rotation shift basis
- All operating costs estimated on the basis of an owner-operated project

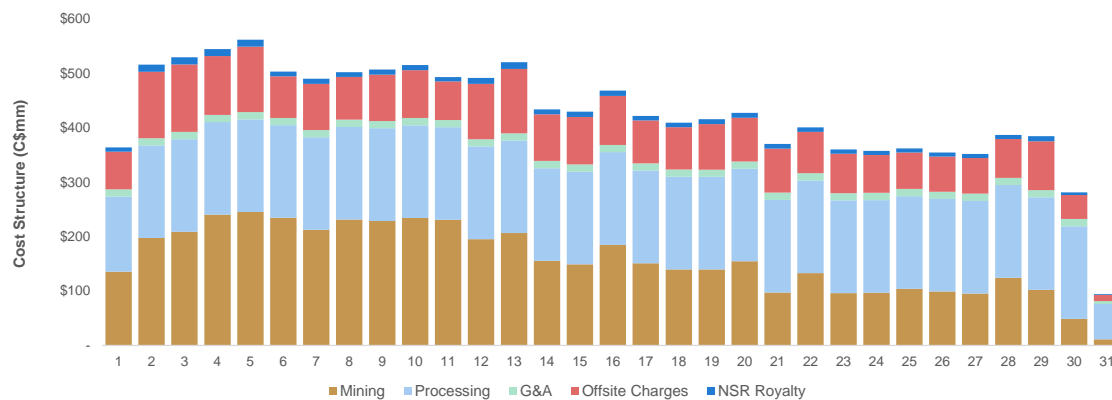
## Operating Cost Estimates

On-site Unit Operating Costs		
Mining*	C\$/t mined	\$2.40
Mining*	C\$/t milled	\$5.00
Processing	C\$/t milled	\$5.25
G&A	C\$/t milled	\$0.41
<b>Total</b>	<b>C\$/t milled</b>	<b>\$10.66</b>

\*Excludes lease payments

Off-site Unit Operating Costs		
Transport	C\$/t milled	\$1.00
Cu Treatment	C\$/t milled	\$0.60
Refining	C\$/t milled	\$1.01
<b>Total</b>	<b>C\$/t milled</b>	<b>\$2.60</b>

## LOM Aggregate Cost Structure



# Capex Buildup

TOTAL PRE-PRODUCTION CAPEX OF C\$2.0 BILLION

## Overview

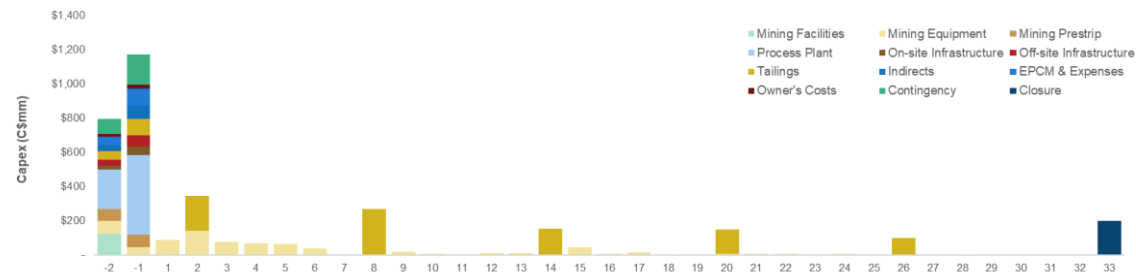
- Capital cost estimate developed by Ausenco based on EPCM approach to development
- Approach makes maximum use of in place infrastructure including roads and grid power
- Includes a 20% contingency on all direct and indirect capital costs with some specific items treated with less contingency based on confidence of recent quotes and information provided by equipment suppliers
- Contemplates a two year construction period
- Mining equipment capital estimated as leased with a 20% initial down payment on fleet requirements
- Majority of sustaining capital is for TSF construction

## Capital Cost Estimates

Initial Capital (C\$mm)	
<b>Mine</b>	
Pre-stripping	\$143
Mining Equipment Down Payments	\$123
Mining Capital	\$124
Subtotal	\$390
<b>Processing</b>	
Crushing and Grinding	\$506
Processing	\$157
Concentrate Handling	\$31
Subtotal	\$693
<b>Infrastructure</b>	
Power Supply	\$66
Access and Buildings	\$106
Tailings Storage	\$149
Subtotal	\$321
<b>Total Directs</b>	<b>\$1,404</b>
Indirects	\$110
Engineering Services	\$152
Owner's Costs	\$35
Contingency	\$266
<b>Total</b>	<b>\$1,968</b>

N.B.: numbers may not sum due to rounding

## LOM Capex Profile





# Berg Mineral Resources (2023)<sup>1</sup>

PIT-CONSTRAINED USING C\$8.50/T NSR CUT-OFF

<i>C\$8.50/t NSR Cut-off</i>	Tonnage (Mt)	NSR/t (C\$/t)	Grade				Gross Contained Metal			
			Cu (%)	Mo (%)	Ag (g/t)	Au (g/t)	Cu (Mlbs)	Mo (Mlbs)	Ag (Moz)	Au (koz)
<i>Supergene</i>										
Measured	14	\$43.03	0.39	0.03	5.6	0.04	120	8	3	18
Indicated	227	\$32.60	0.29	0.02	5.4	0.03	1,443	107	39	224
<b>Total M+I</b>	<b>241</b>	<b>\$33.20</b>	<b>0.29</b>	<b>0.02</b>	<b>5.4</b>	<b>0.03</b>	<b>1,564</b>	<b>115</b>	<b>42</b>	<b>242</b>
Inferred	42	\$18.12	0.17	0.01	3.3	0.02	160	8	4	29
<i>Hypogene</i>										
Measured	19	\$35.02	0.26	0.04	4.6	0.03	110	16	3	16
Indicated	743	\$28.18	0.21	0.03	4.4	0.02	3,399	500	104	481
<b>Total M+I</b>	<b>762</b>	<b>\$28.35</b>	<b>0.21</b>	<b>0.03</b>	<b>4.4</b>	<b>0.02</b>	<b>3,508</b>	<b>516</b>	<b>107</b>	<b>497</b>
Inferred	500	\$22.91	0.17	0.03	3.8	0.02	1,885	280	60	255
<i>Leach Cap</i>										
Measured	0	\$18.39	0.14	0.02	3.4	0.03	1	0	0	0
Indicated	6	\$17.19	0.13	0.01	5.1	0.03	16	2	1	4
<b>Total M+I</b>	<b>6</b>	<b>\$17.24</b>	<b>0.13</b>	<b>0.01</b>	<b>5.1</b>	<b>0.03</b>	<b>17</b>	<b>2</b>	<b>1</b>	<b>5</b>
Inferred	0	\$17.87	0.12	0.01	7.5	0.02	0	0	0	0
<i>Total</i>										
Measured	34	\$38.22	0.31	0.03	5.0	0.03	230	24	5	34
Indicated	976	\$29.15	0.23	0.03	4.6	0.02	4,858	609	145	709
<b>Total M+I</b>	<b>1,009</b>	<b>\$29.45</b>	<b>0.23</b>	<b>0.03</b>	<b>4.6</b>	<b>0.02</b>	<b>5,089</b>	<b>633</b>	<b>150</b>	<b>744</b>
Inferred	542	\$22.54	0.17	0.02	3.7	0.02	2,045	288	65	284

# Ootsa Mineral Resources (2022)<sup>1</sup>

PIT-CONSTRAINED USING C\$8.27/T NSR CUT-OFF

	Tonnage (Mt)	Grade				Gross Contained Metal			
		Cu (%)	Mo (%)	Au (g/t)	Ag (g/t)	Cu (Mlbs)	Mo (Mlbs)	Au (Moz)	Ag (Moz)
<i>See/</i>									
Measured	103.7	0.19	0.014	0.15	2.6	440	32	0.5	8.7
Indicated	276.1	0.16	0.017	0.12	2.0	974	105	1.1	18.2
<b>Total M+I</b>	<b>379.8</b>	<b>0.17</b>	<b>0.016</b>	<b>0.13</b>	<b>2.2</b>	<b>1,414</b>	<b>137</b>	<b>1.6</b>	<b>26.9</b>
Inferred	135.4	0.15	0.015	0.10	2.0	455	45	0.4	8.8
<i>Ox</i>									
Measured	30.1	0.24	0.026	0.04	1.4	157	17	0.0	1.4
Indicated	28.7	0.19	0.020	0.03	1.3	122	12	0.0	1.2
<b>Total M+I</b>	<b>58.8</b>	<b>0.22</b>	<b>0.023</b>	<b>0.03</b>	<b>1.4</b>	<b>280</b>	<b>29</b>	<b>0.1</b>	<b>2.6</b>
Inferred	2.4	0.13	0.011	0.03	1.1	7	1	0.0	0.1
<i>Total</i>									
Measured	133.8	0.20	0.017	0.13	2.4	597	49	0.5	10.1
Indicated	304.8	0.16	0.018	0.11	2.0	1,097	118	1.1	19.4
<b>Total M+I</b>	<b>438.6</b>	<b>0.18</b>	<b>0.017</b>	<b>0.12</b>	<b>2.1</b>	<b>1,694</b>	<b>167</b>	<b>1.6</b>	<b>29.5</b>
Inferred	137.7	0.15	0.015	0.10	2.0	462	46	0.4	8.9



# End Notes

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- ◆ All references to copper equivalent (“CuEq”) are on the basis of recovered or payable metals, as indicated, with such recovered or payable metals converted into copper equivalent based on their respective price ratios using long-term metal prices assumptions of US\$4.00/lb Cu, US\$15.00/lb Mo, US\$23.00/oz Ag, and US\$1,800/oz Au and with the formula  $CuEq (lbs) = Cu (lbs) + 3.75 * Mo (lbs) + 5.75 * Ag (oz) + 450 * Au (oz)$ .
- ★ The Berg mineral resource estimate has an effective date of June 7, 2023. The technical report will be available under the Company’s profile at [www.sedar.com](http://www.sedar.com). The mineral resource estimate has been prepared by Sue Bird, P.Eng., an independent Qualified Person. Resources are reported using the 2014 CIM Definition Standards and were estimated in accordance with the CIM 2019 Best Practices Guidelines. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability. The Mineral Resource has been confined by a “reasonable prospects of eventual economic extraction” pit using the following assumptions: a) Cu price of US\$4.00/lb, Mo price of US\$15.00/lb, Au price of US\$1,800/oz, Ag price of US\$23/oz at an exchange rate of 0.77 US\$ per C\$; b) 96.5% payable for Cu, 90.0% payable for Ag and Au, 99.0% payable for Mo, 1% unit deduction for Cu and Mo, Cu concentrate smelting of US\$75/dmt, US\$0.08/lb Cu refining, US\$1.30/lb Mo refining, transport and offsite costs of US\$100/wmt and US\$130/wmt for Cu and Mo concentrates respectively, a 1.0% NSR royalty, and uses average recoveries for Cu, Mo, Ag, and Au of 82%, 70%, 66%, and 55% respectively in the supergene & leach cap and of 80%, 70%, 64% and 55% respectively in the hypogene; c) mining costs of C\$2.50/t mineralized material and C\$2.50/t waste; d) processing, G&A, and tailings management costs of C\$8.50/t; and e) pit slopes of 45 degrees. Numbers may not add due to rounding. The PEA is preliminary in nature and includes Inferred Mineral Resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as Mineral Reserves, and there is no certainty the PEA will be realized.
- ◇ The Ootsa mineral resource estimate has an effective of February 18, 2022. Economic viability can only be assessed through the completion of engineering studies defining reserves including PFS and FS. Resource classification adheres to CIM Definition Standards; it cannot be assumed that all or any part of Inferred Mineral Resources will be upgraded to Indicated or Measured as a result of continued exploration. A C\$8.27 per tonne NSR cut-off value was used as the base case for reporting mineral resources that have reasonable prospects for eventual economic extraction. The NSR cut-off was derived from US\$ metal prices of US\$3.85/lb Cu, US\$12.40/lb Mo, US\$1,750/oz Au, and US\$22.00/oz Ag, and a USDCAD exchange rate of 0.77. Process recoveries used were 90% Cu, 70% Au, 70% Mo, and 65% Ag with respective smelter payables of 96%, 90%, 98.5%, and 96%. Refining charges in US\$ were US\$0.05/lb Cu, US\$5/oz Au, and US\$0.50/oz Ag. A generated pit shell using Whittle (3DS Geovia) was used to report resources. The generation of the pit shell considered 45-degree slope angles, C\$ operating costs of C\$2.34/t for mining and C\$8.11/t for processing, G&A, and ore mining premium with a 2% ore dilution rate. Grades were estimated using ordinary kriging using capped assays composited to two-metre intervals, with estimation block sizes of 12x12x12 for both Seel and Ox. Copper equivalent assumes metal prices of US\$3.85/lb Cu, US\$12.40/lb Mo, US\$1,750/oz Au, and US\$22.00/oz Ag and uses the formula  $CuEq (\%) = Cu (\%) + 3.2208 * Mo (\%) + 0.6630 * Au (g/t) + 0.0083 * Ag (g/t)$ . The total waste tonnes within the Seel constraining pit are 1,443.4 Mt implying a strip ratio of 2.8 : 1, and the total waste tonnes within the Ox constraining pit are 65.6 Mt implying a strip ratio of 1.1 : 1. Mineral resources that are not mineral reserves do not have demonstrated economic viability. The Qualified Person for the Mineral Resource Estimate is James N. Gray, P.Geo, of Advantage Geoservices Ltd. All figures are rounded to reflect the relative accuracy of the estimate.