



***Focused on Expansion and Discovery  
of District-Scale Gold and Copper  
Assets in British Columbia***

APRIL 2024 | [SUNSUMITMINERALS.COM](https://www.sunsumitminerals.com) | TSX-V: **SMN** | OTCQB: **SMREF**

# FORWARD LOOKING STATEMENTS



## Forward-Looking Information

Statements contained in this presentation that are not historical facts may be forward-looking statements, which involve risks, uncertainties and other factors that could cause actual results to differ materially from those expressed or implied by such forward-looking statements. In addition, the forward-looking statements require management to make assumptions and are subject to inherent risks and uncertainties. There is significant risk that the forward-looking statements will not prove to be accurate, that the management's assumptions may not be correct and that actual results may differ materially from such forward-looking statements. Accordingly, readers should not place undue reliance on the forward-looking statements. Generally forward-looking statements can be identified by the use of terminology such as "anticipate", "will", "expect", "may", "continue", "could", "estimate", "forecast", "plan", "potential" and similar expressions. These forward-looking statements are based on a number of assumptions which may prove to be incorrect which, without limiting the generality of the following, include: risks inherent in exploration activities; the impact of exploration competition; unexpected geological or hydrological conditions; changes in government regulations and policies, including trade laws and policies; failure to obtain necessary permits and approvals from government authorities; volatility and sensitivity to market prices; volatility and sensitivity to capital market fluctuations; the ability to raise funds through private or public equity financings; environmental and safety risks including increased regulatory burdens; weather and other natural phenomena; and other exploration, development, operating, financial market and regulatory risks. The forward-looking statements contained in this presentation are made as of the date hereof or the dates specifically referenced in this presentation, where applicable. Except as required by applicable securities laws and regulation, Sun Summit disclaims any intention or obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by applicable securities laws. All forward-looking statements contained in this presentation are expressly qualified by this cautionary statement.

## National Instrument 43-101 Disclosure

This presentation has been approved by Sun Summit's Vice President Exploration, Ken MacDonald, P.Geol. and Technical Advisor, Christopher Leslie, P.Geol. a "Qualified Person" as defined in National Instrument 43-101 *Standards of Disclosure for Mineral Projects* of the Canadian Securities Administrators. They have not been able to verify the historical exploration data disclosed, including sampling, analytical and test data underlying the technical information in this presentation since such data is historical and the original drill core and samples are not readily available. Some technical information contained in this presentation is historical in nature and has been compiled from public sources believed to be accurate. This technical information has not been verified by Sun Summit and may in some instances be unverifiable dependent on the existence of historical drill core and samples.

## Quality Assurance & Quality Control

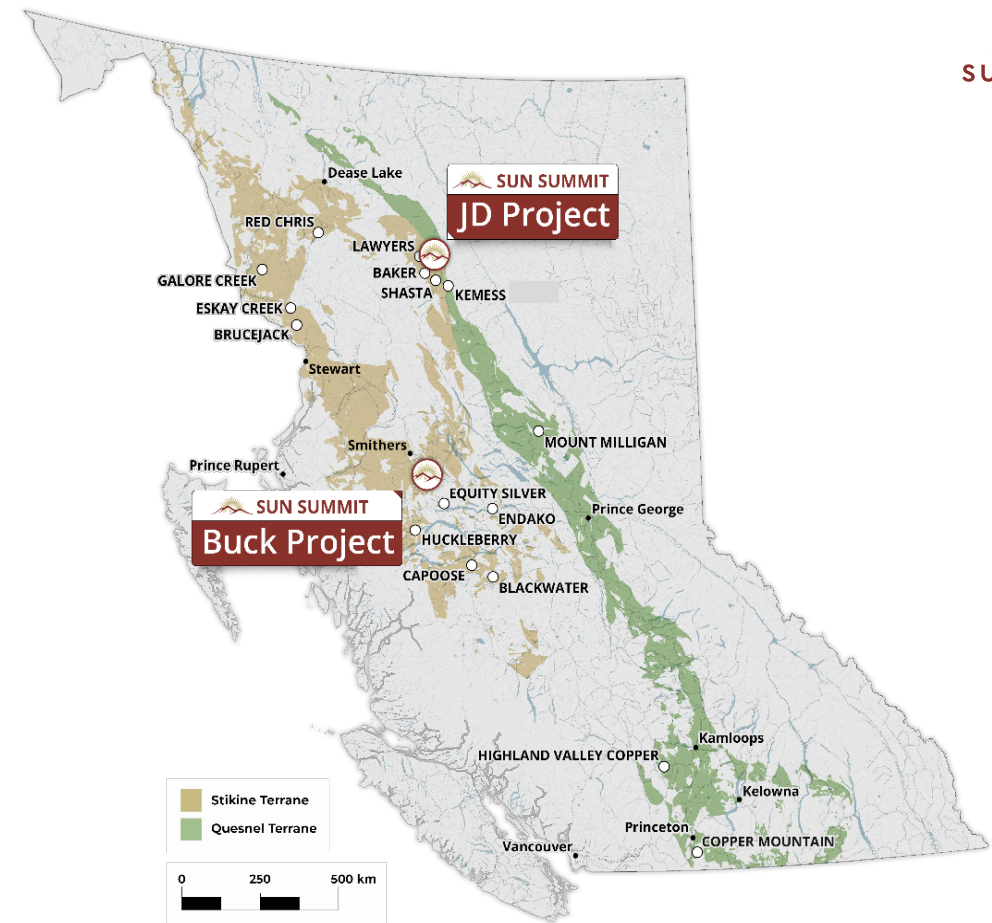
Sun Summit has implemented a quality assurance and quality control program to ensure sampling and analysis of all exploration work is conducted in accordance with the best possible practices. All sampling programs are carried out in a careful and diligent manner using scientifically established sampling practices designed and tested to ensure that the results are representative and reliable. Quality control programs appropriate to the type of sample and the mineralization are implemented, including such measures as insertion of external blanks, standards and duplicate samples into the sample stream. The security of samples from sample acquisition to analysis is a vital component of the sampling process. Procedures include the use of secure core logging, sampling, storage and preparation facilities as appropriate and the prompt, secure and direct shipping of samples to the laboratories. Appropriate sample security procedures are employed given the geographic and topographic conditions and the logistics created by the site location.



# Sun Summit – Investment Highlights

## FOCUSED ON EXPANSION AND DISCOVERY IN BRITISH COLUMBIA

- Located in a premier / Tier 1 jurisdiction
- Diverse portfolio includes two Gold-Copper projects:
  - JD Project (epithermal Au-Ag, porphyry Cu-Au)
  - Buck Project (epithermal Au-Ag, porphyry Cu-Mo)
- Existing infrastructure and excellent accessibility
- Both projects have significant growth potential
- Advanced exploration and grassroots targets
- Proven discovery team, BC jurisdictional advantage
- Potential for wealth creation – project advancement, drill ready targets, news flow, near-term catalysts
- Compelling current valuation – significant potential for re-rating upwards as the team pursues new discovery



### VALUE DRIVERS

- Near-term value creation by rapid project advancement
- Creating tangible value on existing assets
- Expansion and discovery potential

# JD Project – Prolific Region

## BC'S NEXT PREMIERE MINING JURISDICTION

- Metal endowed Toodoggone Mining District
- Significant deposits / proven mineralization
- Renewal of historic mining camp
- Emerging district: recent project activity and infrastructure development
- “Golden Horseshoe”, similar geological environment to Golden Triangle
- Au-Ag-Cu mineralization throughout Stikine Terrane
- Ideal geological setting for discovery of high-value copper-gold deposits
- Mining friendly and low-risk jurisdiction
- Targeted by major mining companies



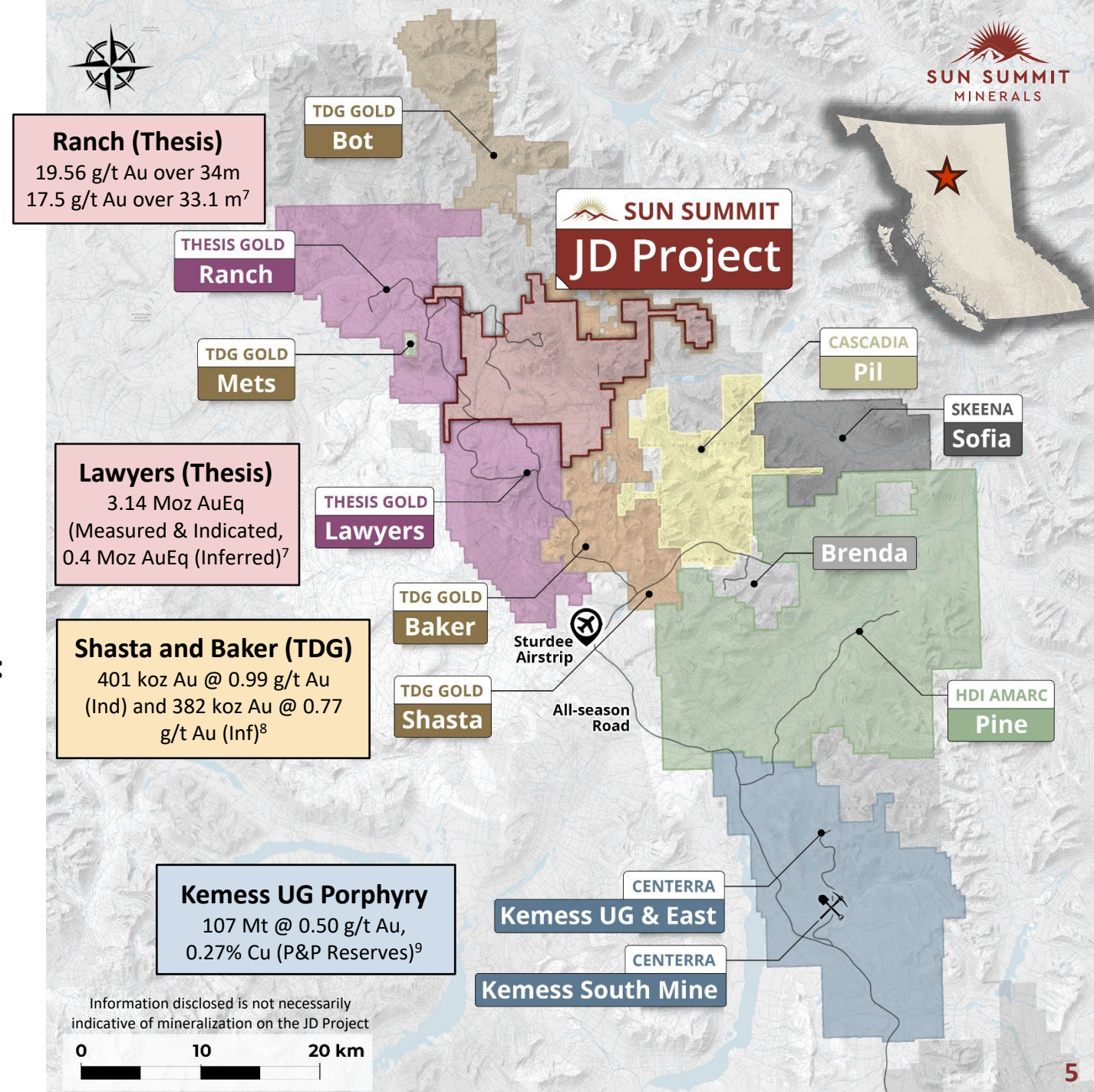


# JD Project – Toodoggone

**SIGNIFICANT LAND PACKAGE ~15,000 ha**

- Under-explored, significant discovery potential
- Opportunity to explore for two deposit types:
  - Epithermal gold-silver mineralization
  - Porphyry-related copper-gold mineralization
- Adjacent to high-grade epithermal gold systems:
  - Lawyers, Ranch (Thesis Gold)
  - Shasta, Baker, Mets (TDG Gold)
- Captures northern extension of Kemess Cu-Au belt:
  - Kemess South, Kemess East & North UG (Centerra)
  - Joy District (HDI Amarc)
- Potential for significant expansion
- Developing infrastructure from recent activity
- Sturdee Airstrip (Terrace, Smithers, Prince George)
- Kemess South mine hydroelectric power grid

References resource and reserve statements can be found at the end of this presentation.



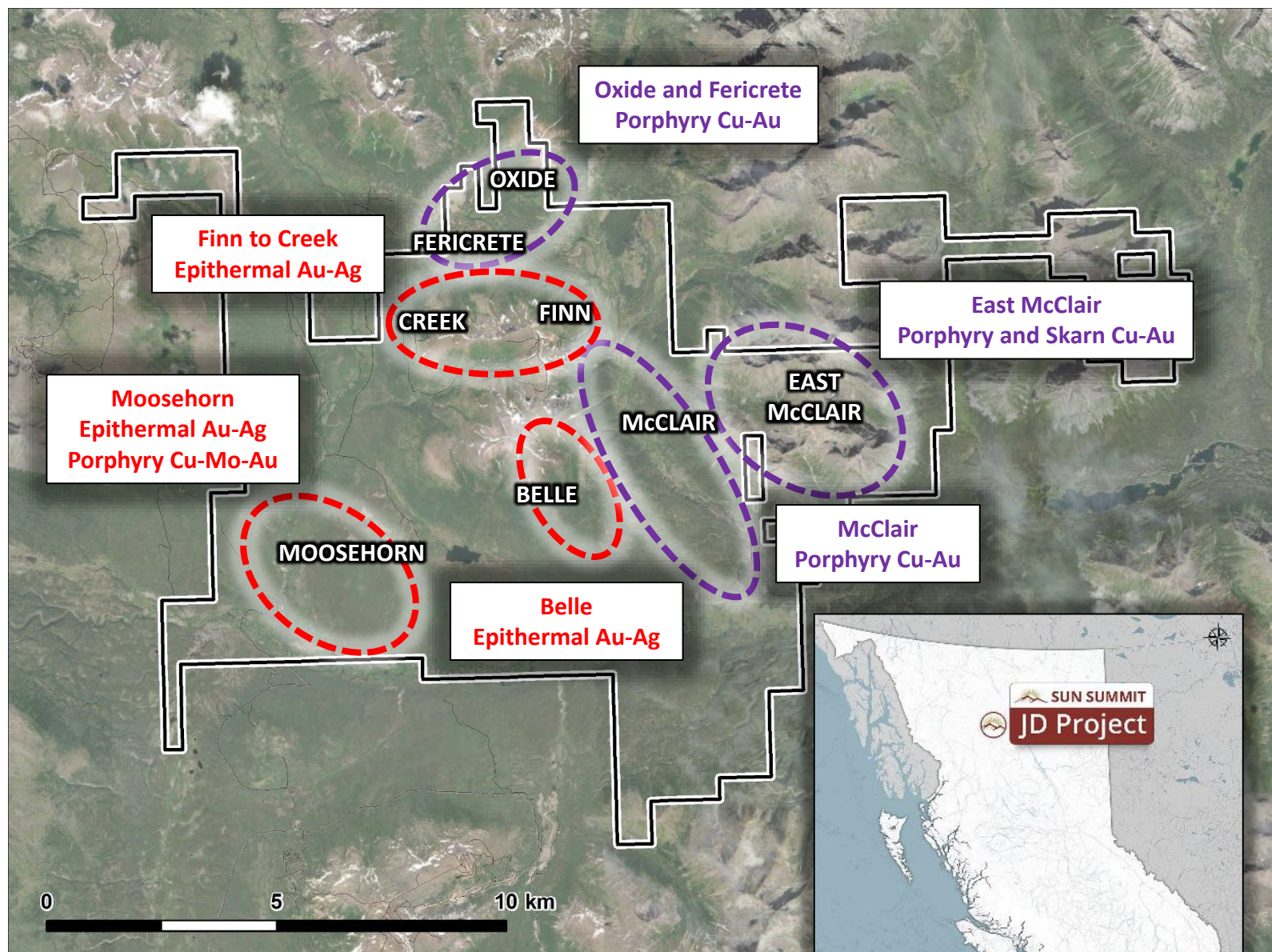


# JD PROJECT

## Multiple Priority Targets

### High-grade Epithermal Au-Ag and Porphyry Cu-Au potential

- Significant data compilation has **defined multiple priority targets**
- Historical data dates back to the 1970's; **data compilation is the first modern attempt at the JD project**
  - *~16,000 soil samples, 2,000 rock samples, 130 trenches, over 330 drill holes, ground- and airborne-based geophysical surveys*
- Data review and compilation **critical to ongoing target selection and prioritization**
- Will lead to **boots-on-ground exploration in 2024**





# JD PROJECT

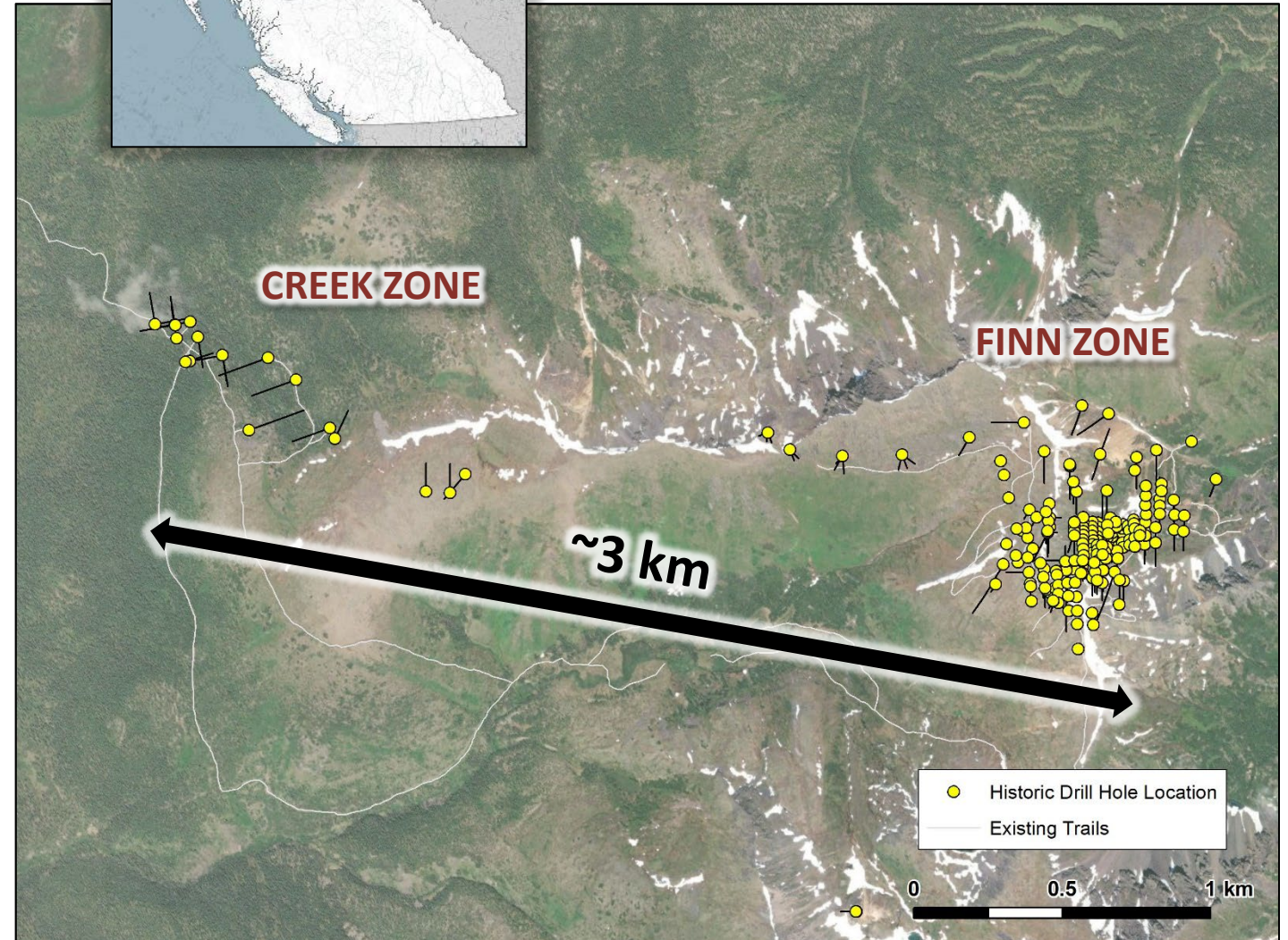
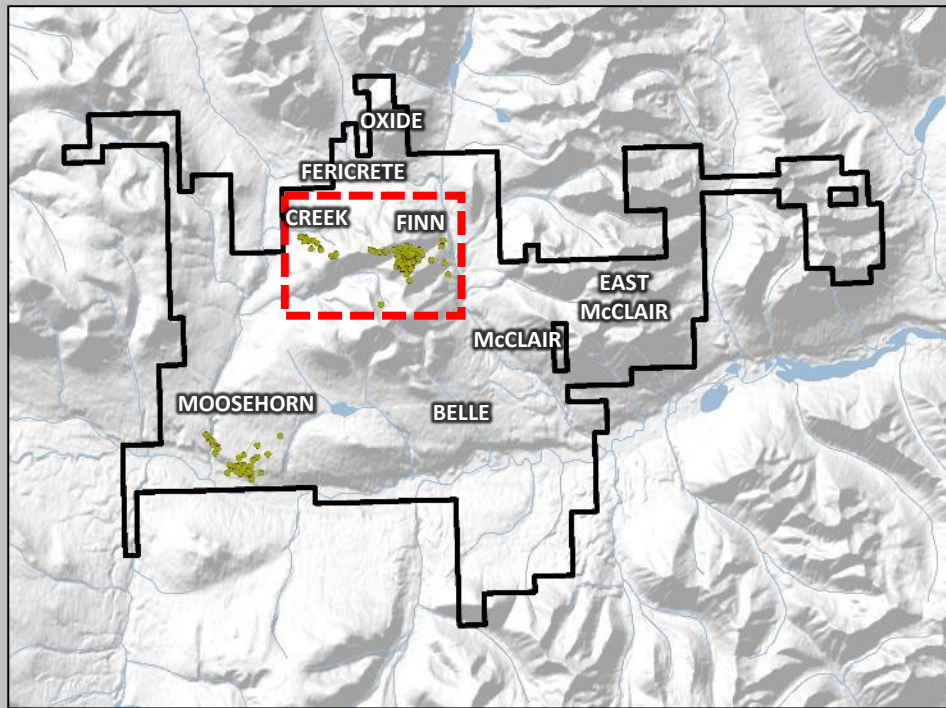
## Epithermal Gold Targets

### High-Grade Epithermal Gold-Silver

**FINN ZONE** ~270 historical drillholes

**CREEK ZONE** ~20 historical drillholes

**MOOSEHORN ZONE** ~40 historical drillholes





# JD PROJECT

## Finn Zone

- Broad zone of near-surface, epithermal-related gold-silver mineralization
- Structurally controlled mineralization; hosted within low angled fault zone
- Open along strike and down dip
- Historical drill core only selectively sampled; left significant gaps in prospective geology
- Priority drill target areas defined at Finn; target high grade core, understand structural controls, high grade shoots

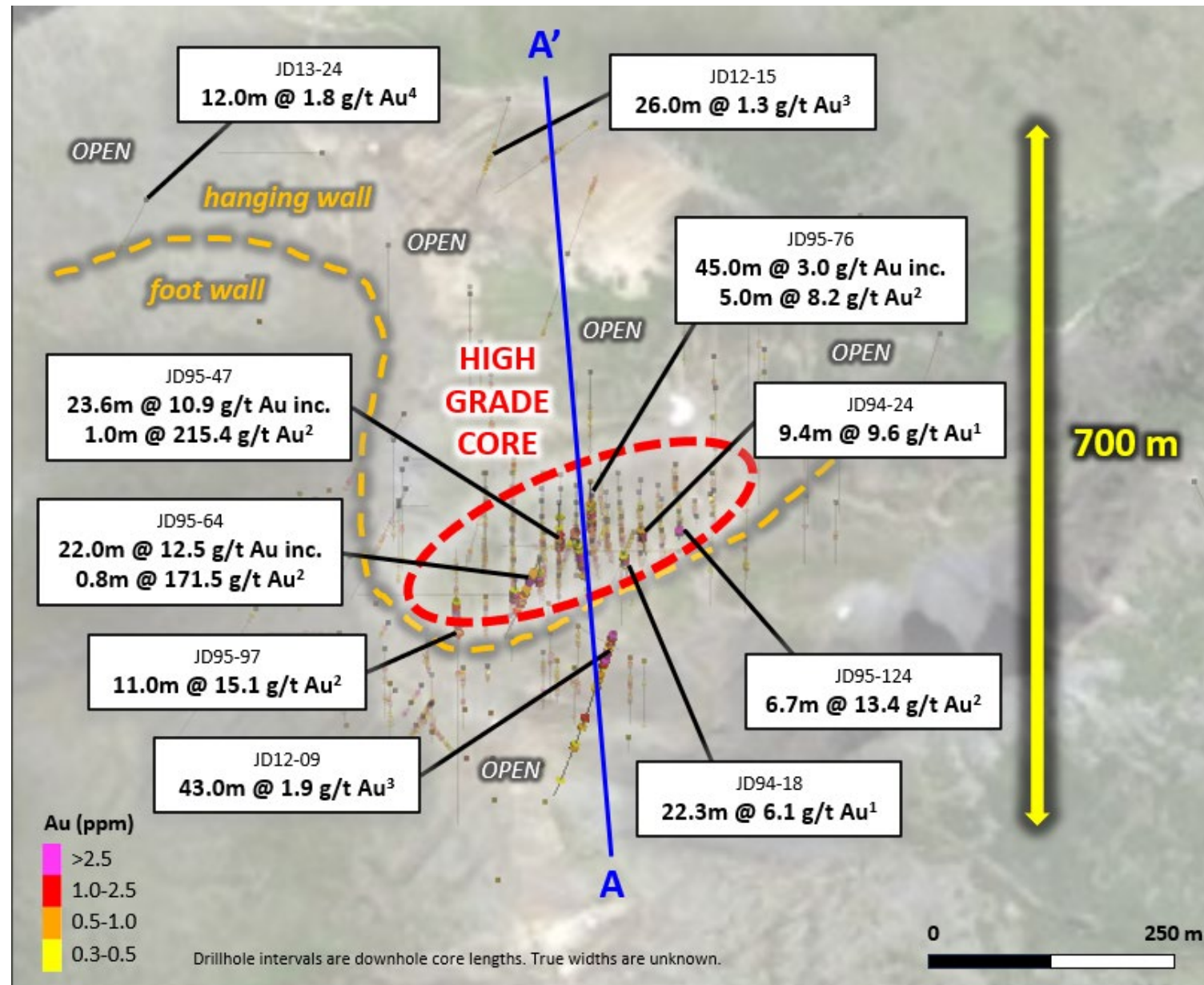
**FINN ZONE** ~270 historical drillholes

### Hangingwall

35.7 m @ 7.3 g/t Au incl. 1.0 m @ 215.4 g/t Au (JD95-047<sup>2</sup>)  
 22 m @ 12.5 g/t Au incl. 0.8 m of 171.5 g/t Au (JD95-064<sup>2</sup>)  
 27.8 m @ 6.6 g/t Au incl. 11.0 m @ 15.1 g/t Au (JD95-097<sup>2</sup>)  
 77 m @ 2.4 g/t Au incl. 12.6 m @ 10.8 g/t Au (JD12-003<sup>5</sup>)

### Footwall

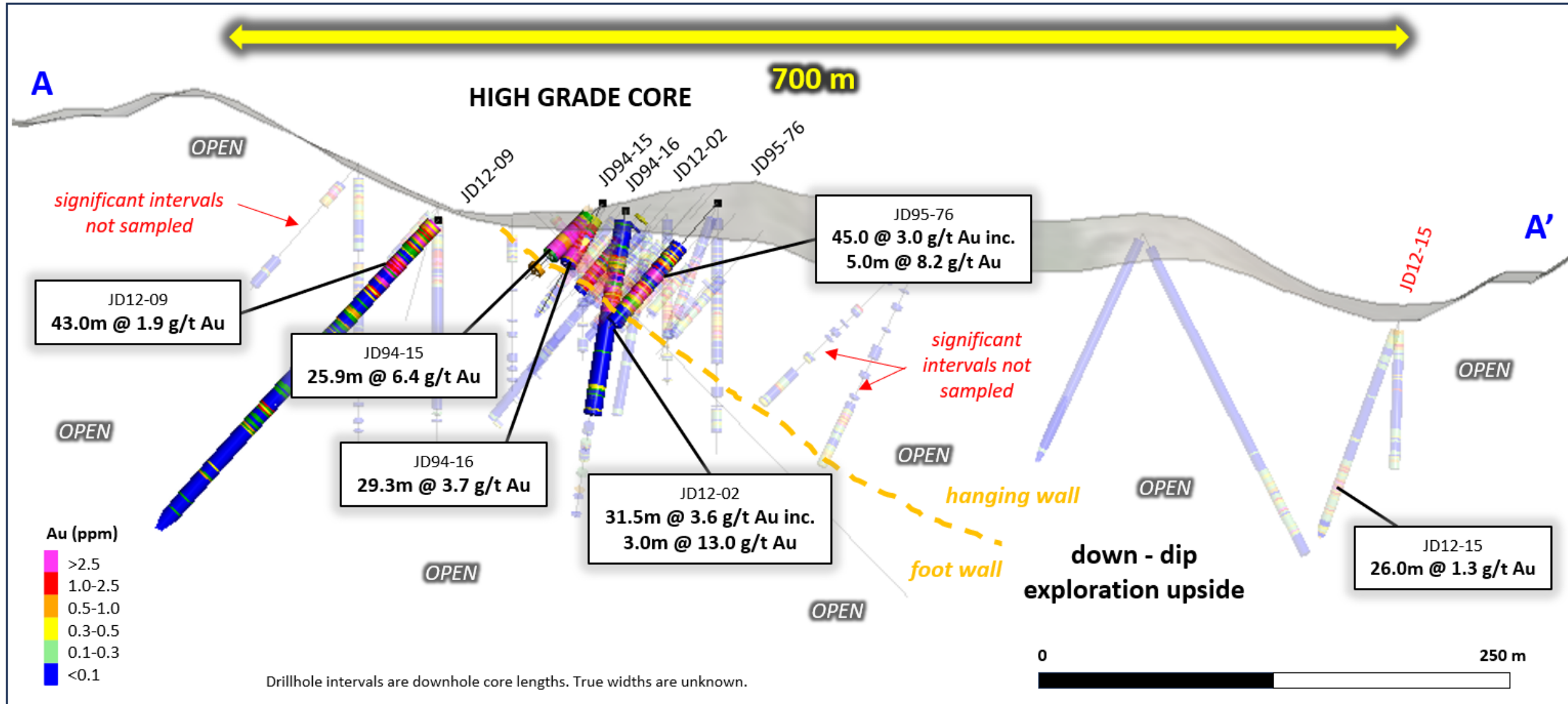
91 m @ 1.0 g/t Au incl. 43 m @ 1.9 g/t Au (JD12-009<sup>5</sup>)



References for historical drill hole results can be found at the end of this presentation.



# JD PROJECT – Finn Zone



References for historical drill hole results can be found at the end of this presentation.



# JD PROJECT

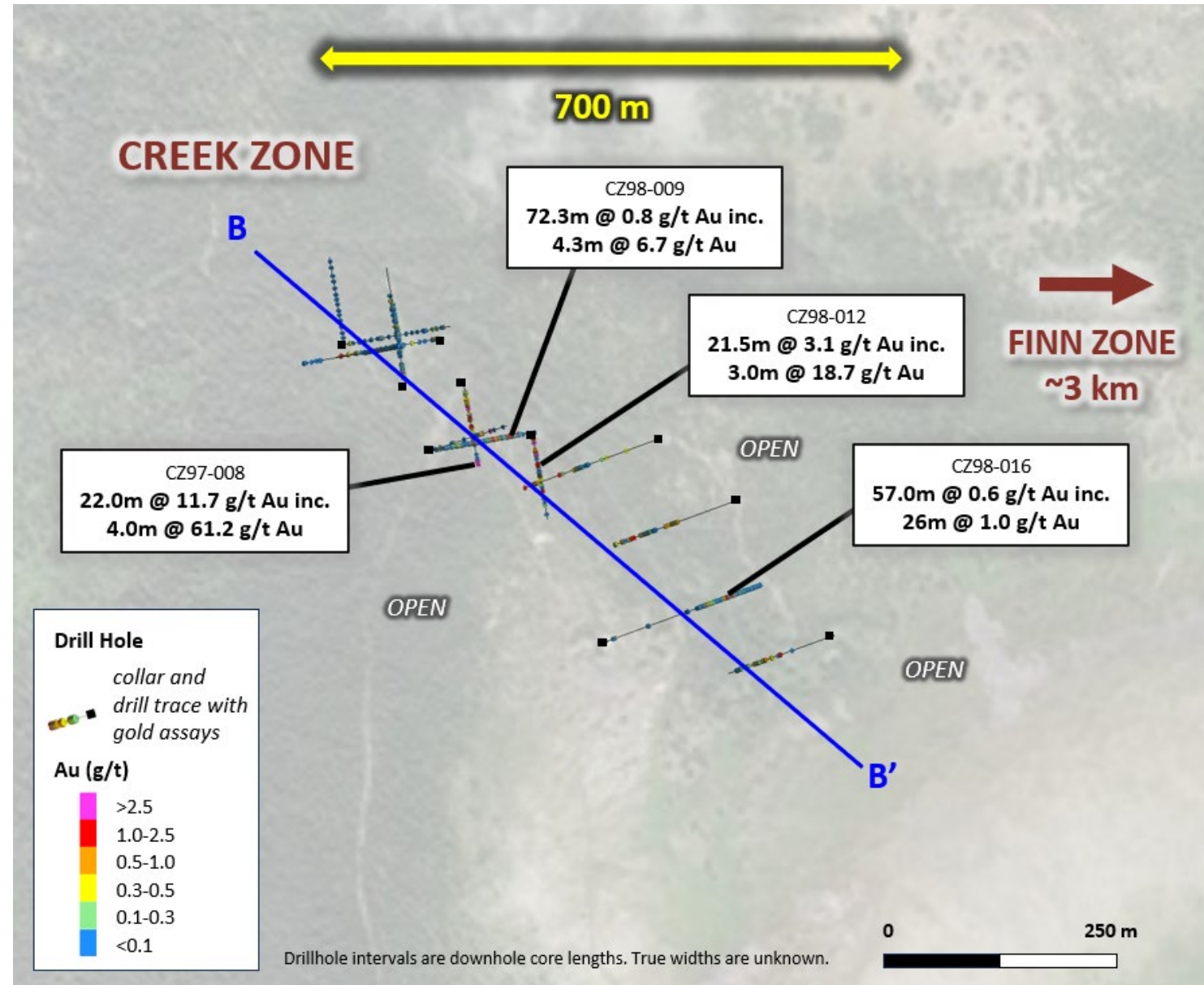
## Creek Zone

- Limited drilling, open in all directions
- High-grade gold potential of structurally controlled, sulfide-rich mineralization
- Intermittent down-hole sampling; holes that were continuously sampled demonstrate presence of continuous mineralization
- Priority drill target areas defined at Creek; systematic drilling to follow up on high grade
- High-resolution IP geophysics
- Detailed mapping and surface geochemistry

### CREEK ZONE ~20 historical drillholes

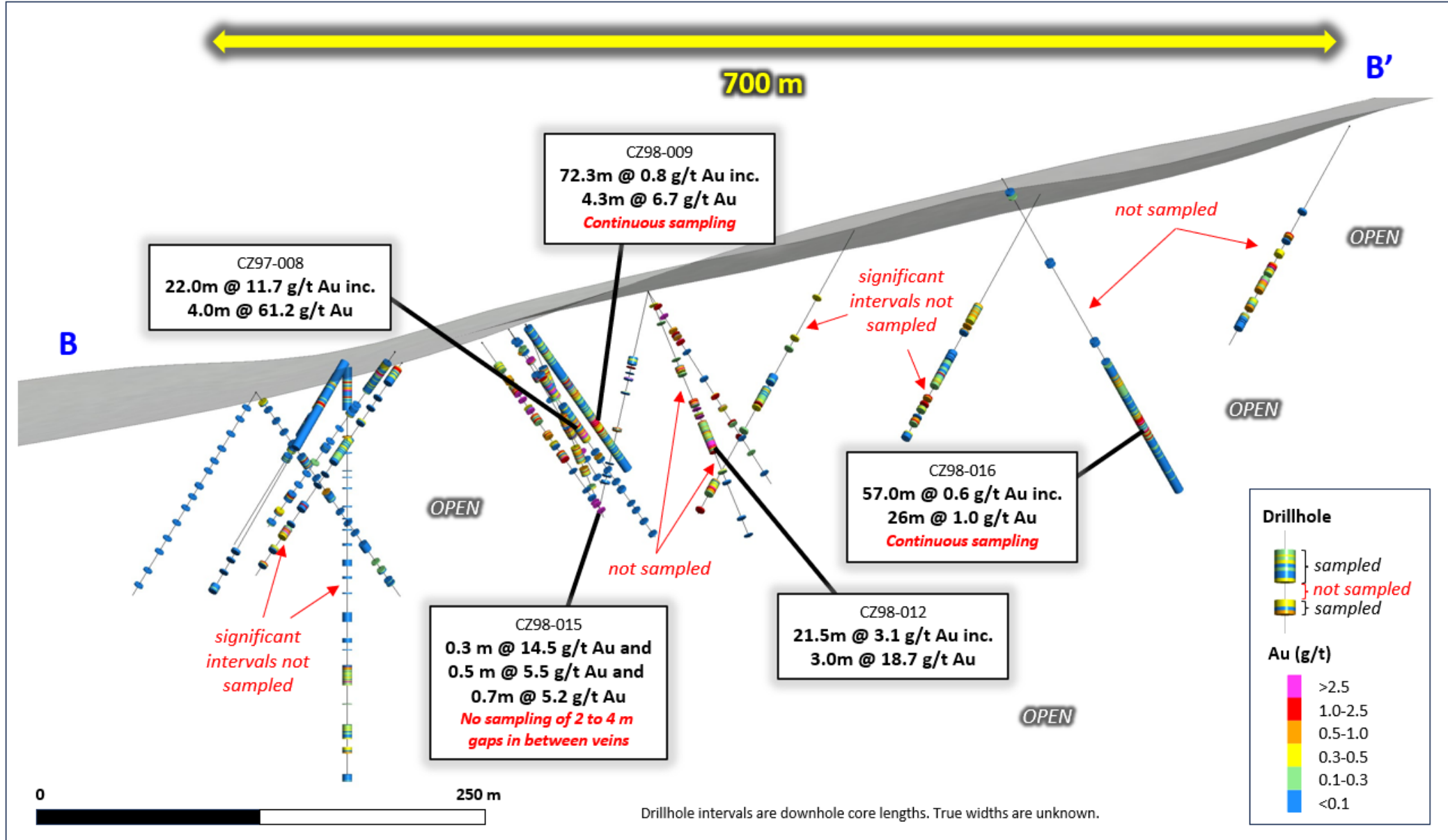
87 m @ 3.6 g/t Au incl. 22 m @ 11.7 g/t Au  
and incl. 4.0 m @ 61.2 g/t Au (CZ97-008<sup>3</sup>)

21.5 m @ 3.1 g/t Au incl. 3.0 m @ 18.7 g/t Au (CZ98-012<sup>4</sup>)



References for historical drill hole results can be found at the end of this presentation.







# JD PROJECT

## Finn to Creek Corridor

### Size and Scale Potential

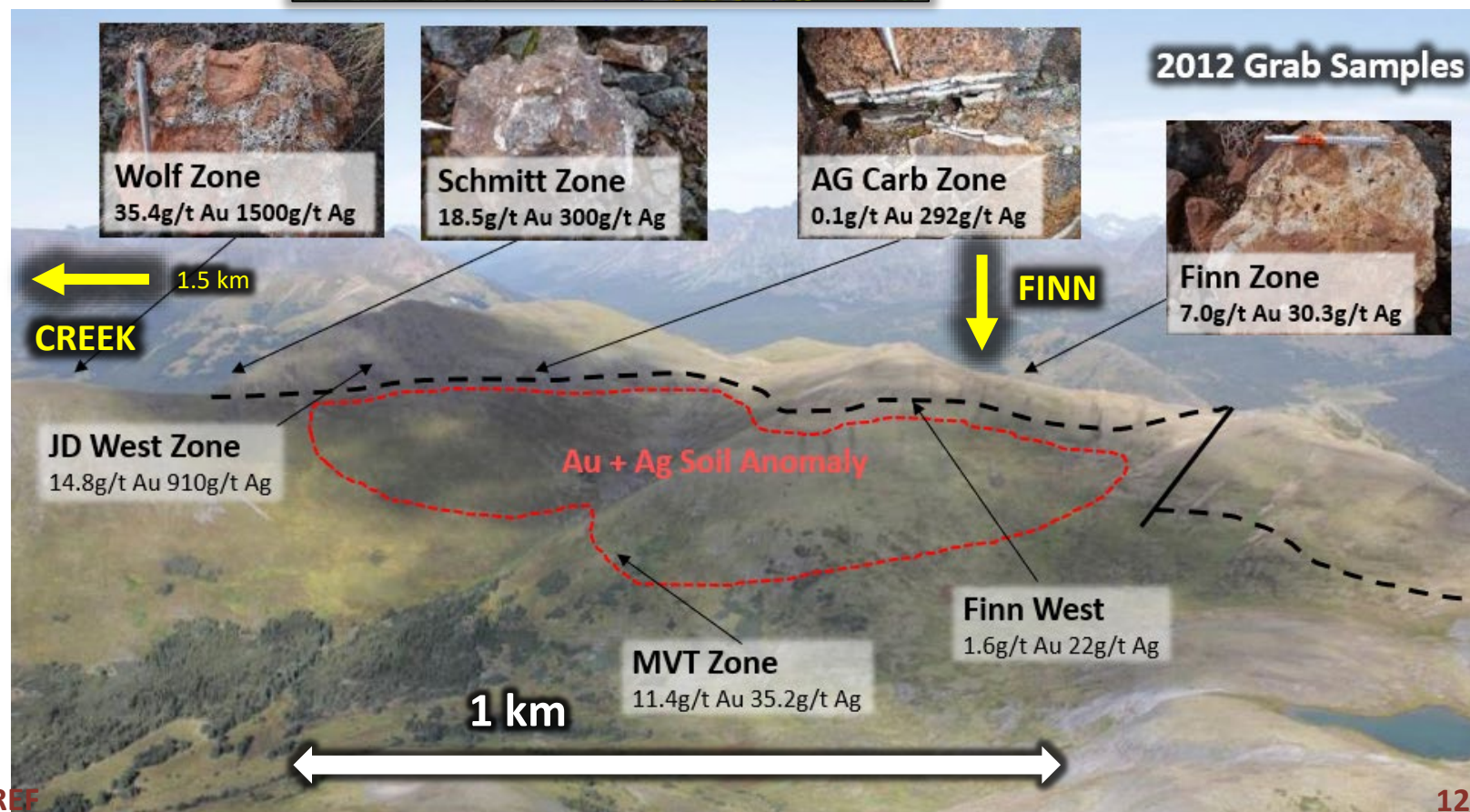
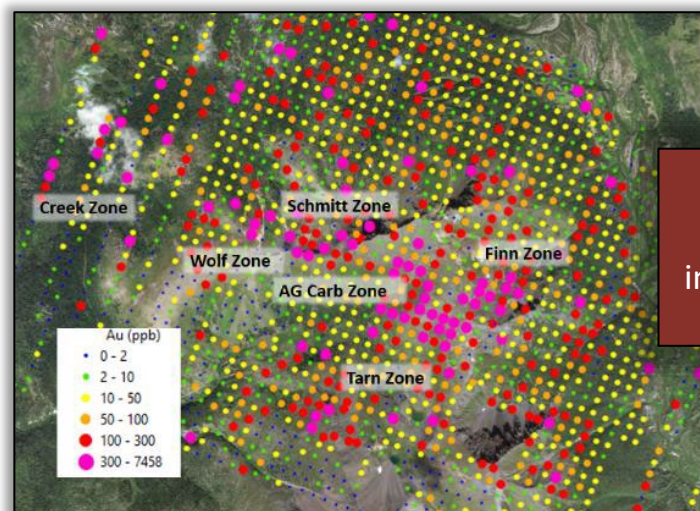
- Highly anomalous samples can be traced along strike from Finn to Creek
- Strong Au-Ag anomalism in soils/rocks
- Separated by ~3 km with limited drilling
- Underexplored, untested targets
- Significant expansion potential along strike to the west of Finn Zone

#### Rock samples <sup>5/6</sup>

35.4 g/t Au 1500 g/t Ag  
 18.5 g/t Au 300 g/t Ag  
 14.8 g/t Au 910 g/t Ag

#### Soil samples <sup>5</sup>

Up to 7.5 g/t Au (Creek Zone)



References for historical drill hole results can be found at the end of this presentation.



# JD PROJECT

## Porphyry Targets

### Porphyry Copper-Gold Potential

- Numerous poorly tested porphyry-related copper targets that warrant significant exploration
- Strong porphyry-related alteration
- Potential “porphyry roots” to shallow epithermal systems
- Flat-lying stratigraphy; epithermal-related systems are preserved on ridge tops and porphyry systems found in valley bottoms

#### McCLAIR PORPHYRY TARGET

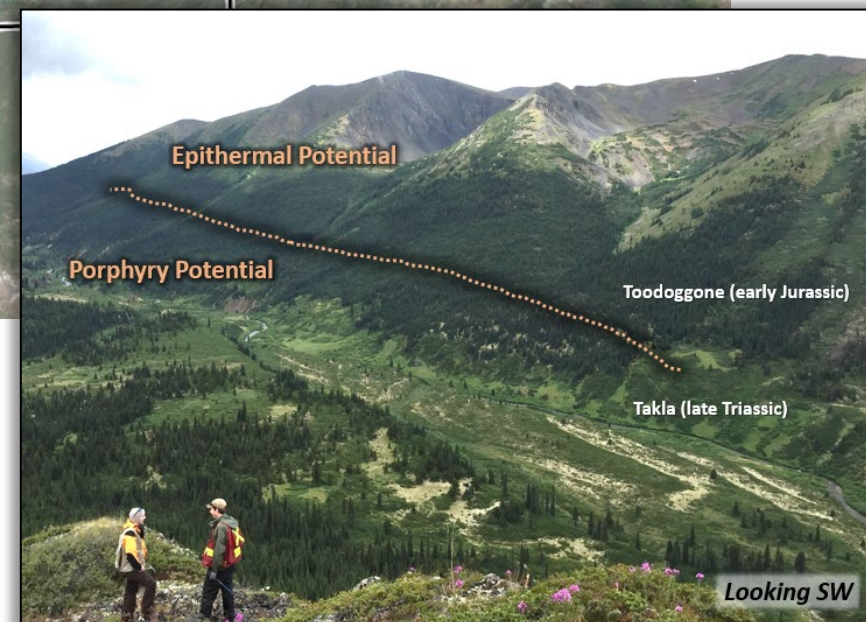
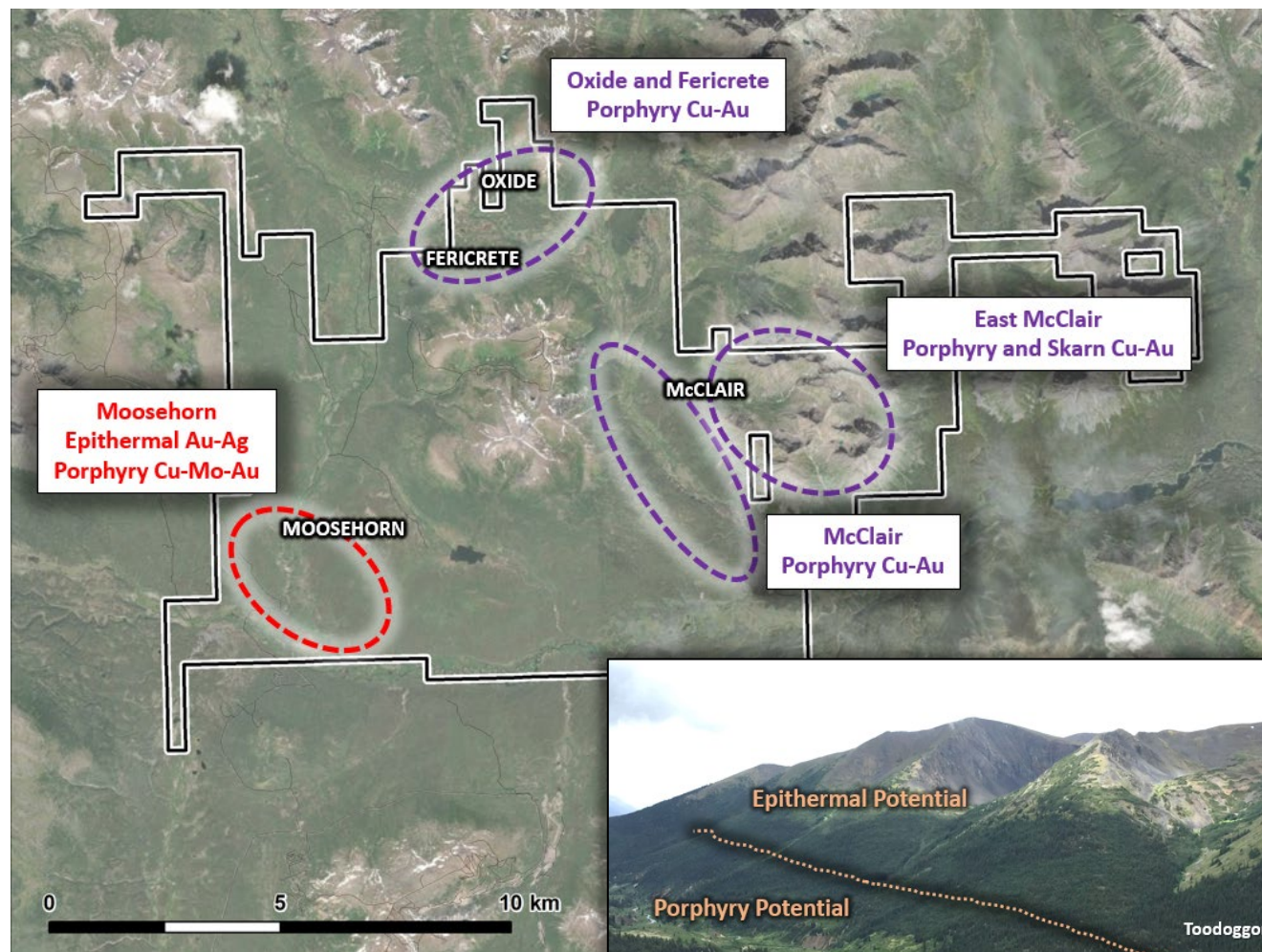
JD-13-025<sup>6</sup> bottomed in **0.46% Cu over 1.4 m** (@230 m)

#### McCLAIR EAST TARGET

**1.5% Cu, 1.32% Cu, 0.77% Cu** in rock samples<sup>5/6</sup>

*Drill intervals highlighted are downhole core lengths. True widths are unknown.*

References for historical drill hole results can be found at the end of this presentation.



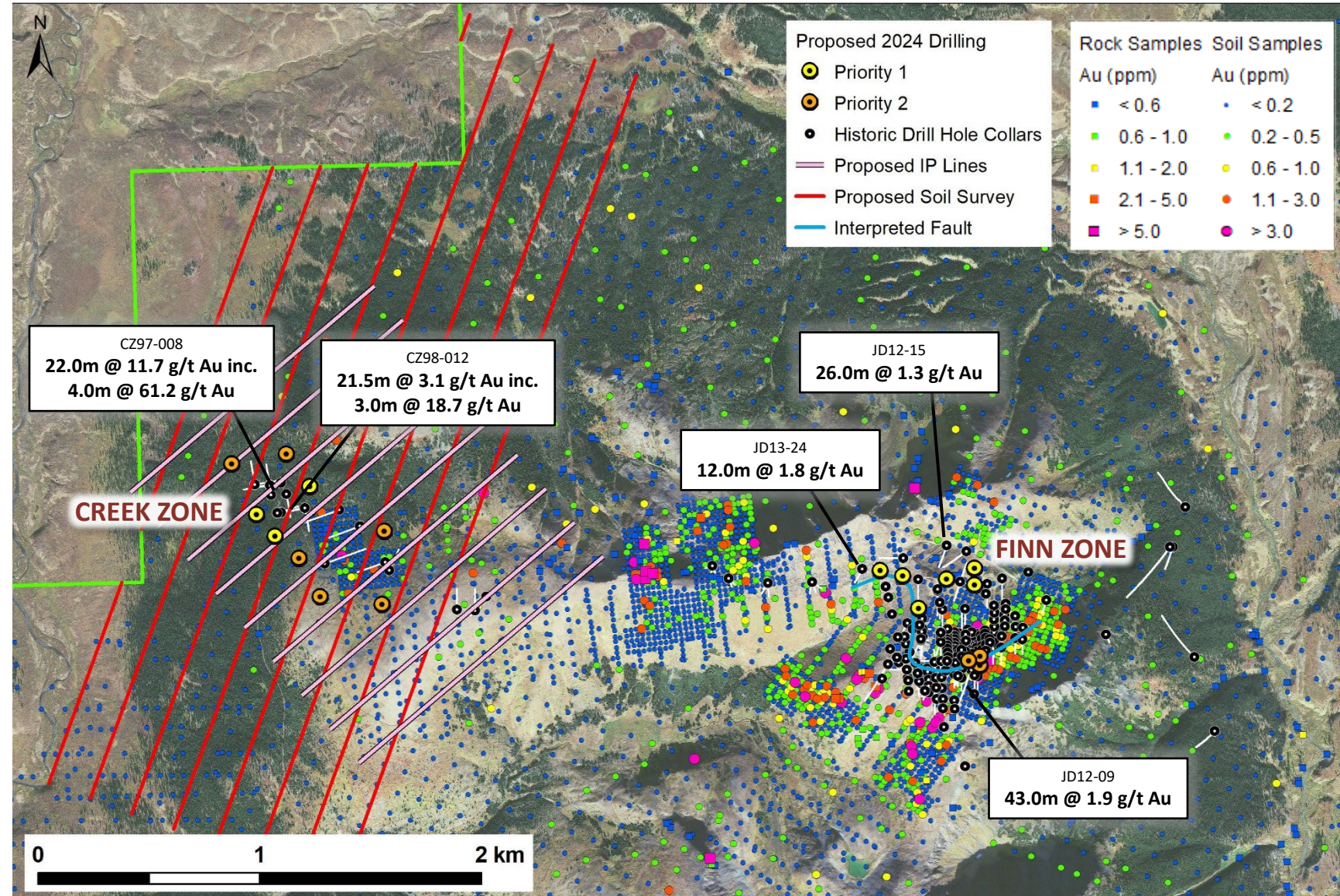


# JD PROJECT

## Exploration Program

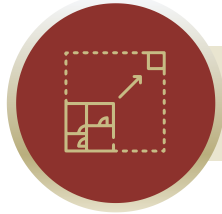
### PROPOSED 2024 PROGRAM

- **Priority drill targets at Finn;** step-out drilling to target high grade core, understand structural controls, high grade shoots
- **Priority drill targets at Creek;** step-out drilling to evaluate orientation/ extent of high-grade zones
- Tightly spaced **ground IP geophysics** at Creek
- **Geochemical surveys** (soil, rock and stream sampling)
- Detailed **geological and structural mapping and prospecting**
- High-resolution **airborne LiDAR data collection**



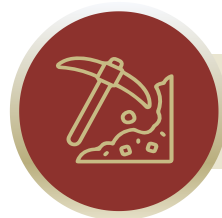


# JD Project – *Untapped Potential*



## SCALE

- Finn to Creek zones (~3km) show **continuous near-surface Au-Ag mineralization**
- **Limited drilling, promising geochemistry, systems open laterally and at depth**



## GRADE

- **High-grade Au-Ag** intersected in historic holes (e.g., 35.7 m @ 7.26 g/t Au, JD95-047<sup>2</sup>)
- Selective assay sampling left **significant gaps in prospective geology**



## DISTRICT

- **Renewal of historic mining camp** (Kemess South open pit Cu-Au mine)
- **Highly prospective and emerging region** in British Columbia



## TEAM

- Proven technical team with **track record of discovery and delineation**
- **BC mining experience and strong jurisdictional advantage**



# BUCK PROJECT

## District Scale Potential



**Large 52,000 ha / 520 km<sup>2</sup> property**  
Near Houston, B.C., 100% controlled

*Houston 20 min drive*  
*Smithers 1 hr drive*



### Emerging mineralized belt

Mining friendly jurisdiction, close proximity to former and developing mines:

- Equity Silver Mine (Newmont)
- Huckleberry Copper Mine (Imperial Metals)
- Blackwater Gold Mine (Artemis Gold)



### Recent transactions and acquisitions



### Existing infrastructure

Major highway, roads, power, rail, gas line

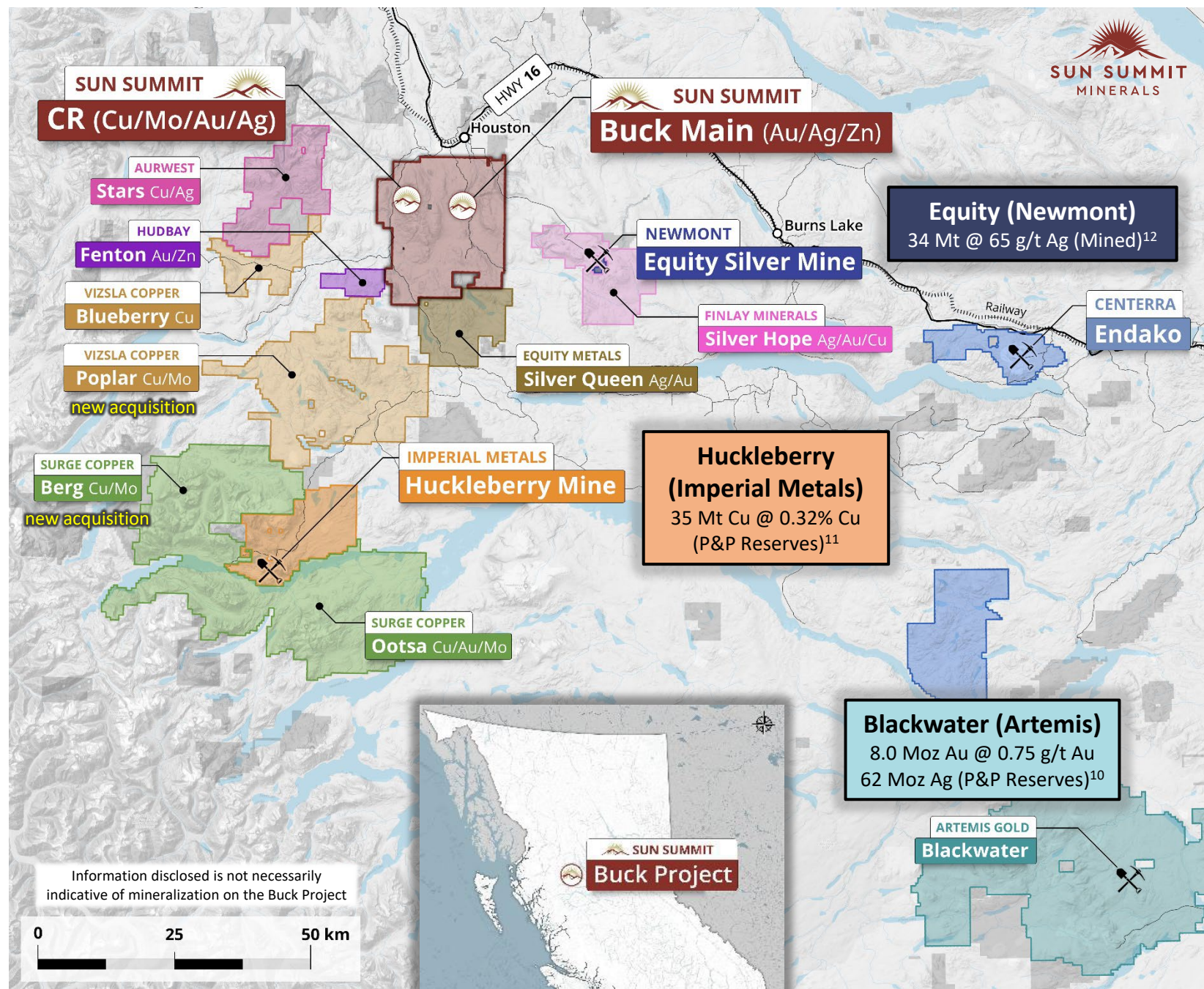


### Direct access to target area being explored

Through forestry roads and trails



### Year-round low cost of exploration



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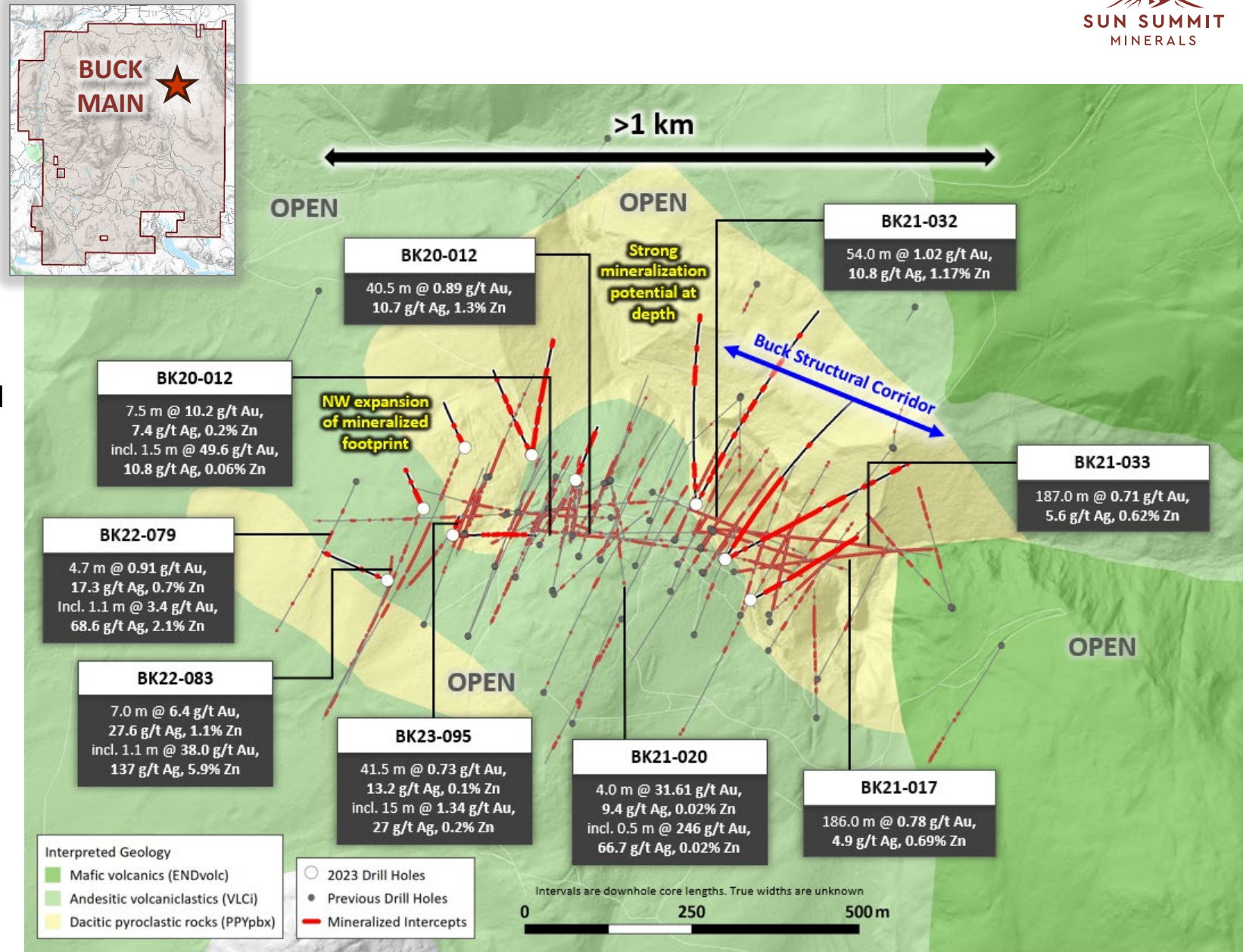


# BUCK MAIN

## Drilling and Initial MRE

- Initial Mineral Resource Estimate (MRE):  
Expected completion Q1 2024
- Over 34,000 m drilled in 98 drill holes
- Open in all directions and at depth: Results indicate significant mineralization extends laterally beyond limits of previous drilling and defines strong depth potential
- Broad intercepts of near surface bulk tonnage-style disseminated mineralization:
  - 1.07 g/t Au, 5.5 g/t Ag, 0.65% Zn over 109 m (BK21-017)
  - 0.67 g/t Au, 4.4 g/t Ag, 0.46% Zn over 187 m (BK21-032)
  - 0.71 g/t Au, 5.6 g/t Ag, 0.62% Zn over 187 m (BK21-033)
  - 0.68 g/t Au, 4.8 g/t Ag, 0.46% Zn over 175 m (BK21-038)
- Significant high-grade zones:
  - 49.6 g/t Au, 10.8 g/t Ag, 0.06% Zn over 1.5 m (BK20-012)
  - 246 g/t Au, 66.7 g/t Ag, 0.02% Zn over 0.5 m (BK21-020)
  - 31.3 g/t Au, 37.0 g/t Ag, 3.68% Zn over 1.0 m (BK21-035)
  - 38.0 g/t Au, 137.0 g/t Ag, 5.9% Zn over 1.1 m (BK22-083)

*Drill intervals highlighted are downhole core lengths. True widths are unknown.*





# BUCK MAIN

## Progression from 2020 to 2023

**~400% expansion of mineralized envelope over 4 yrs**

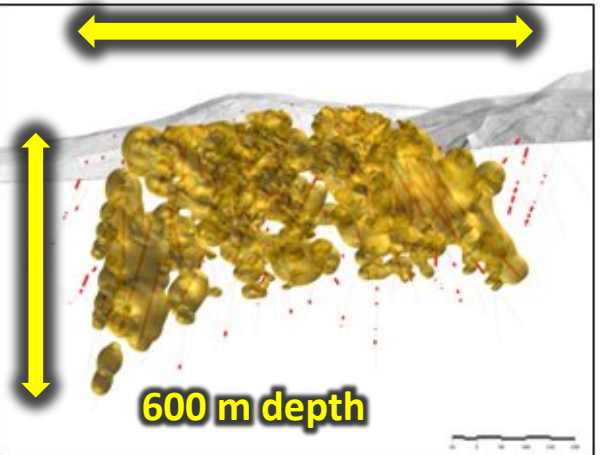
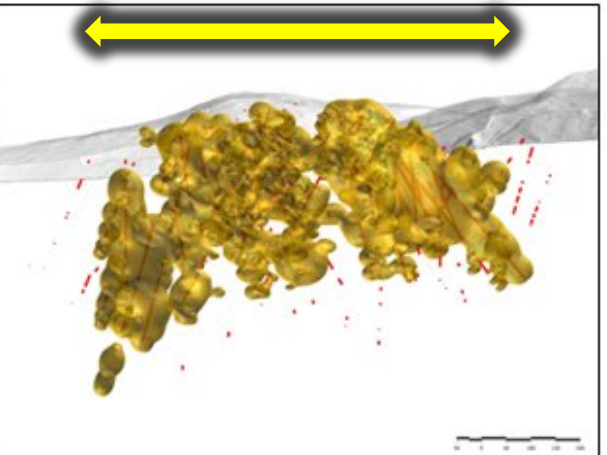
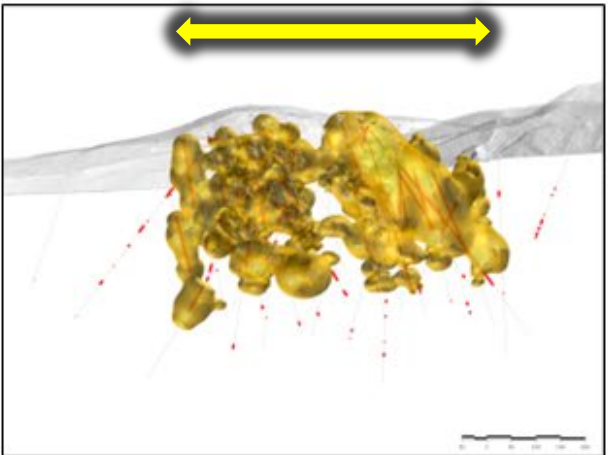
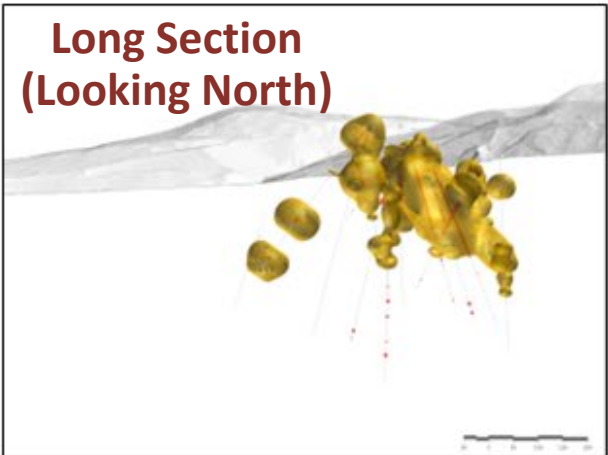
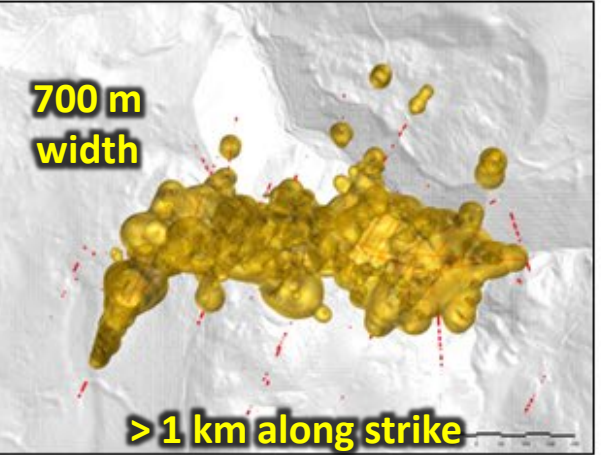
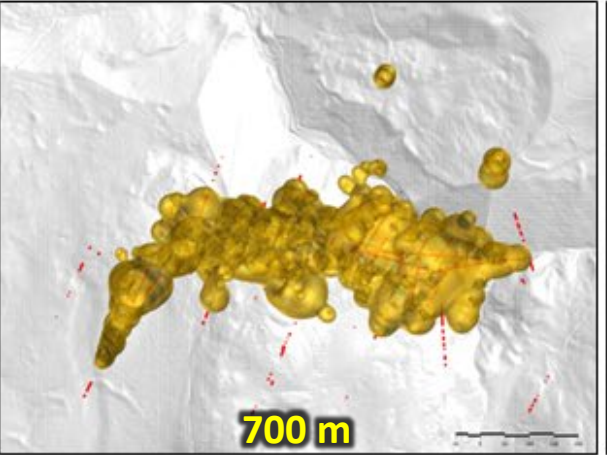
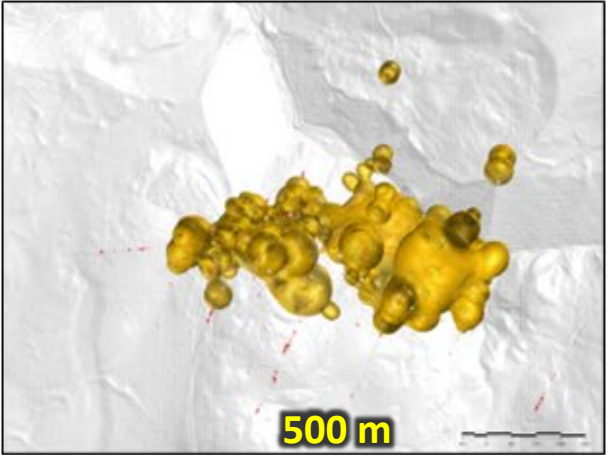
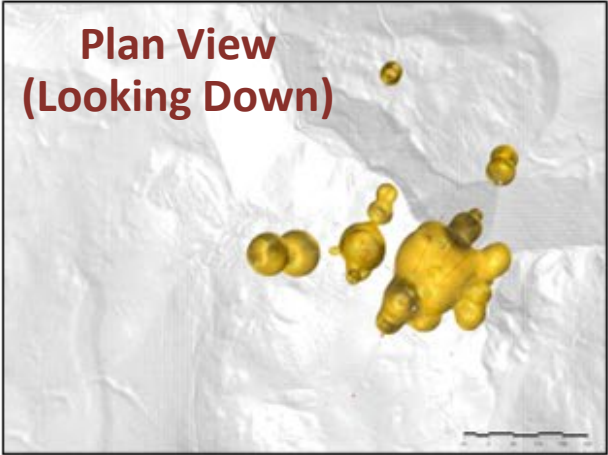
*Based on Sun Summit's drill programs*

**2020 Drilling**  
15 holes for 6,000 m  
(total drilling)

**2021 Drilling**  
66 holes for 23,500 m  
(total drilling)

**2022 Drilling**  
84 holes for 30,600 m  
(total drilling)

**2023 Drilling**  
98 holes for 34,500 m  
(total drilling)



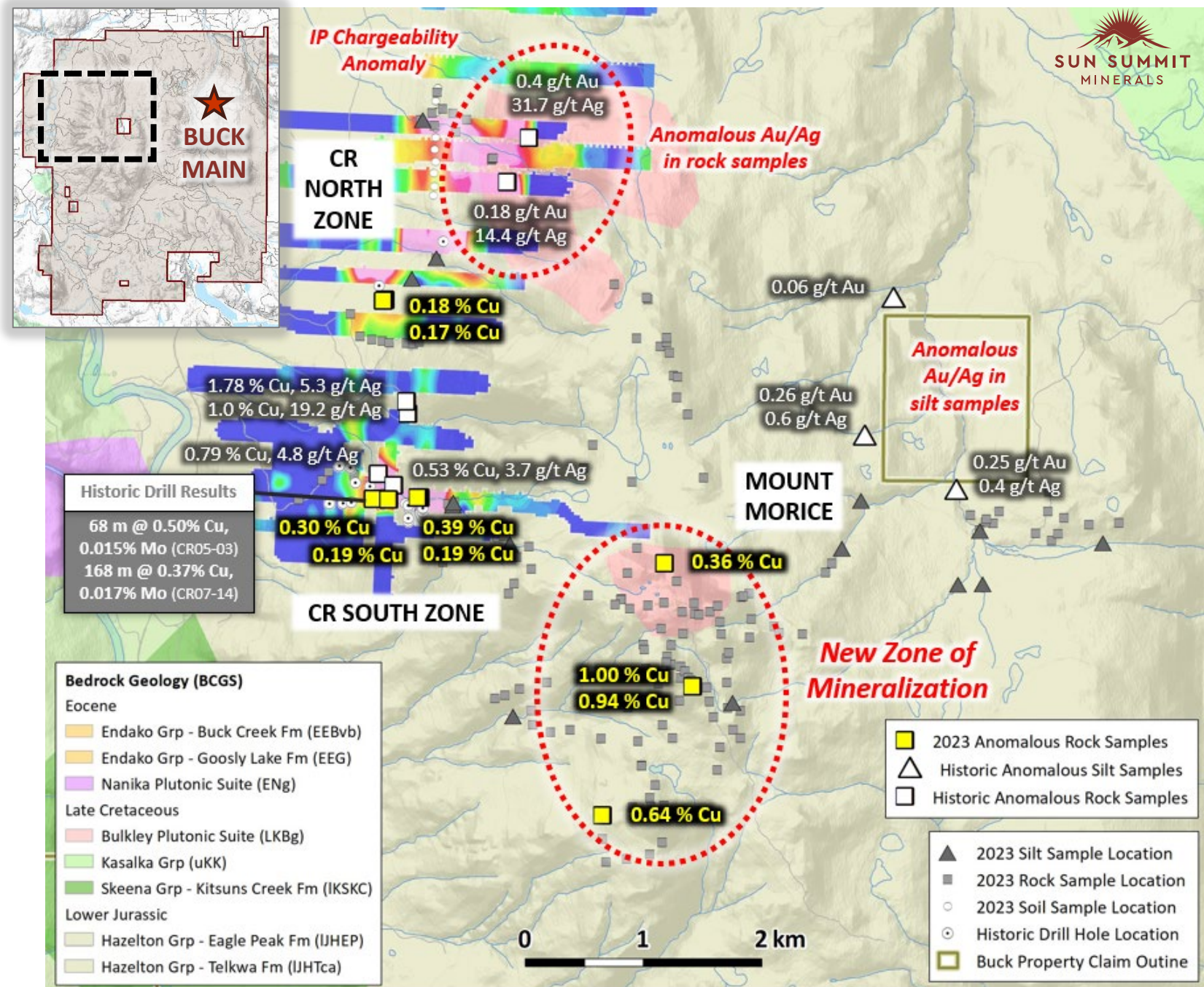


# BUCK PROJECT

## CR and Mount Morice



- Multiple under-explored targets within recently expanded 52,000 ha tenure package
- Significant discovery potential across the project: Multi-element soil anomalies with coincident geophysical anomalies
- Acquisition of the CR property from Teck, a drill-ready Au-Ag-Cu-Mo property
- Cu-Mo porphyry-style mineralization at CR South Zone; historical drill highlights include:
  - 168 m at 0.37% Cu, 0.017% Mo (CR-07-14)
  - 68 m at 0.50% Cu, 0.015% Mo (CR05-03)
  - 105 m at 0.35% Cu, 0.024% Mo, ending in 0.50% Cu (CR07-15)
- Strong porphyry-related mineralization and alteration and remain open for expansion:
  - 1.00% Cu and 3.2 g/t Ag
  - 0.94% Cu and 4.1 g/t Ag
- Anomalous Au-Ag samples near Mt Morice:
  - 0.26 g/t Au, 0.25 g/t Au, 0.6 g/t Ag





# Share Structure



**Outstanding Shares** 37,200,561

**Warrants** 8,668,535

**Options** 1,481,667

**Fully Diluted** 47,350,763

*Share structure as of March 26, 2024*

**52 week high/low** \$0.56/\$0.08

**Market Capitalization** ~\$4 Million CAD

**Working Capital** ~\$0.5 Million CAD

~8.7M warrants expiring May 10, 2025 (\$0.495)

Options are exercisable at prices varying from \$0.48 to \$1.71 per share

**TSX.V: SMN**  
**OTCQB: SMREF**



# Sun Summit Minerals

## Value Proposition

### NEAR TERM VALUE CREATION

Rapid project advancement, creating value on existing assets with ounces in the ground, expansion and discovery potential



#### DIVERSIFIED PROJECT PORTFOLIO IN BRITISH COLUMBIA

JD Project (Epithermal Au-Ag, Porphyry Cu-Au)

Buck Project (Epithermal Au-Ag, Porphyry Cu-Mo)



#### LOW-RISK JURISDICTION, EMERGING REGIONS

Near known deposits and existing mining camps

Existing infrastructure & access, renewed interest



#### EXPERIENCED MANAGEMENT & PROVEN TECHNICAL TEAM

Track record of discovery, BC jurisdictional advantage



#### ACCESS TO CAPITAL FOR ONGOING EXPLORATION

Compelling valuation with potential for upward re-rating

## Catalysts For Growth

### JD PROJECT

**EXTENSIVE HISTORIC DATA REVIEW AND COMPILATION UNDERWAY**

**COMMENCEMENT OF AGGRESSIVE EXPLORATION PROGRAM;** Summer 2024

### BUCK PROJECT

**INITIAL MINERAL RESOURCE ESTIMATE ON BUCK MAIN;** Expected completion shortly

**ADVANCEMENT OF EXPLORATION TARGETS TO DRILL-READY STAGE;** Drill target generation at CR and Mount Morice



# Sun Summit Minerals

## Directors & Management

### **Brian Lock** | *Executive Chairman*

Over 40 years of experience in the mining industry. Prior positions include Director, Executive VP, President and CEO of several public mining companies including Castle Peak Mining and Scorpio Gold Corp.

### **Sharyn Alexander, M.Sc.** | *President*

Geologist with 20 years of experience in mineral exploration and mining. Prior positions at B2Gold, Barrick Gold (Australia), SRK Consulting, as well as VP Technical Services for Sun Summit Minerals.

### **Robert D. Willis, B.Sc., P.Eng.** | *Senior Advisor*

Geological engineer with over 35 years of experience in the mining industry. Acquired and managed the development of projects through discovery, expansion, development and production. Founder of Geologix Resources, Manhattan Minerals, and Pioneer Metals.

### **Ken MacDonald, P.Geo.** | *Vice President of Exploration*

Registered professional geologist with over 30 years of experience in the mining sector. Prior roles include exploration geologist and senior permitting official with the BC Mines Branch. Responsible for design and implementation of exploration programs from grassroots to advanced drill definition.

### **Christopher Leslie, Ph.D., M.Sc., P.Geo.** | *Technical Advisor*

Economic geologist with 15 years of experience in project generation, project evaluation and district-scale targeting in porphyry to epithermal environments. Former Vice President Exploration for Tower Resources (JD Project) and Senior Project Geologist for Richfield Ventures (discovery of Blackwater Gold Mine).

### **Andrew Carstensen, P.Geo.** | *Director*

### **Craig B. Prenter, CGA, CPA** | *Director*

### **Purni Parikh** | *Director*

### **Waseem Javed, CPA, CA** | *CFO*





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**TSX-V: SMN | OTCQB: SMREF**



**Sharyn Alexander, M.Sc.**

President

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# References

1. Krause, R.G. (1995), 1994 Geological and Geochemical Report on the JD Gold Silver Property, Toadoggone River Area, Omineca Mining Division, British Columbia, Assessment Report Indexing System, Report 23663, <https://apps.nrs.gov.bc.ca/pub/aris>. **JD94-01 to 32**
2. Krause, R.G. (1996), 1995 Geological Report on the JD Gold Silver Property, Toadoggone River Area, Omineca Mining Division, British Columbia, Assessment Report Indexing System, Report 24284, <https://apps.nrs.gov.bc.ca/pub/aris>. **JD95-33 to 132**
3. Hawkins, P.A. (1998), 1997 Exploration Report on the Creek Zone for Antares Mining and Exploration Corporation and AGC Americas Gold Corporation, JD Property, Toadoggone River Area, Omineca Mining Division, Internal Report #98-065-1. **CZ97-01 to CZ97-08**
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6. McBride, S. and Leslie, C. (2014), 2013 Geological, geophysical and diamond drilling report on the JD Property, Assessment Report Indexing System, Report 34762, <https://apps.nrs.gov.bc.ca/pub/aris>. **JD13-19 to 28, rock samples 1709401 to 1709477**
7. Ranch and Lawyers: Thesis Gold Inc. (<https://thesisgold.com>) and NI 43-101
8. Shasta and Baker: TDG Gold Corp. (<https://tdggold.com>) and NI 43-101
9. Kemess North UG: Centerra Gold 2022 Year-End Mineral R&R Summary (<https://www.centerragold.com>)
10. Blackwater Mineral Reserve Statement, [www.artemisgoldinc.com](http://www.artemisgoldinc.com)
11. Huckleberry Mineral Reserve Statement, [www.imperialmetals.com](http://www.imperialmetals.com)
12. Equity Silver Minfile Report, [www.minfile.gov.bc.ca](http://www.minfile.gov.bc.ca)



# JD Property

## Acquisition Terms to Earn 100%

- Upon signing formal agreement and Exchange approval:  
\$175,000 cash | 2,000,000 shares

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- First Anniversary Dec 2024:  
\$200,000 cash | 1,000,000 shares | \$1,000,000 expenditure

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- Second Anniversary Dec 2025:  
\$200,000 cash | 1,000,000 shares | \$4,500,000 expenditure

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- Third Anniversary Dec 2026:  
\$200,000 cash | 1,000,000 shares | \$3,500,000 expenditure

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- Fourth Anniversary Dec 2027:  
\$200,000 cash | 1,000,000 shares | \$4,000,000 expenditure

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- Fifth Anniversary Dec 2028:  
\$200,000 cash | 1,000,000 shares | \$4,500,000 expenditure

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- Sixth Anniversary Dec 2029:  
1,000,000 shares | \$5,000,000 expenditure

**TOTAL    \$1,175,000 payment    8,000,000 shares**  
**\$22,500,000 exploration expenditure**

As part of the option agreement, Sun Summit completed a 3:1 share consolidation (Feb 8, 2024)

- 2% net smelter return (NSR) royalty on the JD claims, which can be reduced to 1% NSR with the payment of \$7,500,000 no later than the receipt of production financing or \$10,000,000 upon commercial production being achieved; 1.0% NSR royalty on the Belle claims; and 1.0% NSR royalty on any interest acquired by Sun Summit in an area of interest north of the Project
- \$250,000 advance royalty payments to the optionors on each anniversary of such exercise until the commencement of any commercial production
- Upon the commencement of commercial production from the Property, Sun Summit will make a payment of \$1,000,000 to the optionors

Please refer to the news release dated [January 9, 2023](#), for full details regarding the option terms

# Buck Property

## Acquisition Terms to Earn 100%

- Upon signing at Exchange approval (October 2019):  
\$25,000 cash | 250,000 shares

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- First Anniversary October 2020:  
\$25,000 cash | 400,000 shares

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- Second Anniversary October 2021:  
\$25,000 cash | 500,000 shares

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- Third Anniversary October 2022:  
\$25,000 cash | 750,000 shares

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- Fourth Anniversary October 2023:  
\$50,000 cash | 1,000,000 shares

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- Fifth Anniversary October 2024:  
\$150,000 cash | 1,100,000 shares

**TOTAL    \$300,000 payment    4,000,000 shares**

**On track to acquire 100% ownership**  
Currently in 5<sup>th</sup> year of option agreement

- Sun Summit has paid **\$150,000 cash and 2,900,000 shares** to date (October 2023)
- 2.5% net smelter return (NSR) royalty on the property, which can be reduced to 1.5% NSR with the payment of \$2,500,000 to the Optioners prior to the first anniversary of the commencement of commercial production
- An additional 4,000,000 shares of Sun Summit is payable upon the earlier of completion of a bankable feasibility study or the eighth anniversary of the Effective Date

*Note: The CR Project is 100% owned by Sun Summit Minerals and is not included in this option agreement*