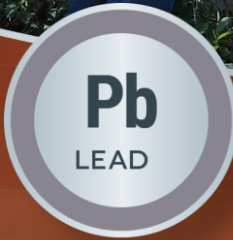


HIGH GRADE, SAFE JURISDICTION, SOLID PARTNERS



FORWARD LOOKING STATEMENTS

This presentation includes certain "forward-looking information" and "forward-looking statements" (collectively "forward-looking statements") within the meaning of applicable Canadian and United States securities legislation including the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, included herein, including, without limitation, the future price of copper, zinc, lead, gold and silver; the timing and amount of estimated future production; net present values and internal rates of return at Arctic; recovery rates; payback periods; costs of production; capital expenditures; costs and timing of the development of projects; mine life; the potential future development of Arctic and the future operating or financial performance of the Company, are forward-looking statements. Forward-looking statements are frequently, but not always, identified by words such as "expects", "anticipates", "believes", "intends", "estimates", "potential", "possible", and similar expressions, or statements that events, conditions, or results "will", "may", "could", or "should" occur or be achieved. These forward-looking statements may include statements regarding perceived merit of properties; exploration plans and budgets; mineral reserves and resource estimates; work programs; timelines; strategic plans; market prices for precious and base metals; or other statements that are not statements of fact. Forward-looking statements involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's expectations include: risks related to inability to define proven and probable reserves; risks related to our ability to finance the development of our mineral properties through external financing, strategic alliances, the sale of property interests or otherwise; uncertainty as to whether there will ever be production at the Company's mineral exploration and development properties; risks related to our ability to commence production and generate material revenues or obtain adequate financing for our planned exploration and development activities; risks related to lack of infrastructure including but not limited to the risk whether or not the Ambler Mining District Industrial Access Project ("AMDIAP") will receive the requisite permits and, if it does, whether the Alaska Industrial Development and Export Authority will build the AMDIAP; risks related to inclement weather which may delay or hinder exploration activities at our mineral properties; risks related to the impact of the novel coronavirus (COVID-19) on the Company and its operations; risks related to our dependence on a third party for the development of our projects; none of the Company's mineral properties are in production or are under development; risks related to future sales or issuances of equity securities decreasing the value of the Company's existing common shares, diluting voting power and reducing future earnings per share; commodity price fluctuations; our history of losses and expectation of future losses; uncertainties relating to the assumptions underlying our resource estimates, such as metal pricing, metallurgy, mineability, marketability and operating and capital costs; uncertainty related to inferred mineral resources; mining and development risks, including risks related to infrastructure, accidents, equipment breakdowns, labor disputes or other unanticipated difficulties with or interruptions in development, construction or production; risks related to market events and general economic conditions, including the impact of COVID-19; risks and uncertainties relating to the interpretation of drill results, the geology, grade and continuity of our mineral deposits; risks related to governmental regulation and permits, including environmental regulation, including the risk that more stringent requirements or standards may be adopted or applied due to circumstances unrelated to the Company and outside of our control; the risk that permits and governmental approvals necessary to develop and operate mines at our mineral properties will not be available on a timely basis or at all; risks related to the need for reclamation activities on our properties and uncertainty of cost estimates related thereto; uncertainty related to title to our mineral properties; risks related to the acquisition and integration of operations or projects; risks related to increases in demand for equipment, skilled labor and services needed for exploration and development of mineral properties, and related cost increases; our need to attract and retain qualified management and technical personnel; risks related to conflicts of interests of some of our directors and officers; risks related to potential future litigation; risks related to the voting power of our major shareholders and the impact that a sale by such shareholders may have on our share price; risks related to global climate change; risks related to adverse publicity from non-governmental organizations; uncertainty as to our ability to maintain the adequacy of internal control over financial reporting as per the requirements of Section 404 of the Sarbanes-Oxley Act; increased regulatory compliance costs, associated with rules and regulations promulgated by the United States Securities and Exchange Commission, Canadian Securities Administrators, the NYSE American, the Toronto Stock Exchange, and the Financial Accounting Standards Boards, and more specifically, our efforts to comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act; uncertainty as to the volatility in the price of the Company's common shares; the Company's expectation of not paying cash dividends; adverse federal income tax consequences for U.S. shareholders should the Company be a passive foreign investment company; and other risks and uncertainties disclosed in the Company's Annual Report on Form 10-K or the year ended November 30, 2023 filed with Canadian securities regulatory authorities and with the United States Securities and Exchange Commission and in other Company reports and documents filed with applicable securities regulatory authorities from time to time. The Company's forward-looking statements reflect the beliefs, opinions and projections on the date the statements are made. The Company assumes no obligation to update the forward-looking statements or beliefs, opinions, projections, or other factors, should they change, except as required by law.

TECHNICAL INFORMATION AND CAUTIONARY STATEMENTS

TECHNICAL REPORT AND QUALIFIED PERSONS

The document referenced below provide supporting technical information for the Arctic project referenced throughout this presentation.

Project	Qualified Person(s)	Most Recent Disclosure
ARCTIC	Kevin Murray, Ausenco Engineering Canada Inc. Piers Wendlandt, P.E., Principal Mining Engineer, Wood Canada Limited Henry Kim, P.Geo, Principal Resource Geologist, Wood Canada Limited Calvin Boese, P. Eng., M.Sc., Principal Consultant, SRK Consulting (Canada) Inc. Bruce Murphy, P.Eng., Principal Consultant, Rock Mechanics, SRK Consulting (Canada) Inc. Andrea Bowie, P.Eng., Senior Consultant, Water Management, SRK Consulting (Canada) Inc. Dennis Fink, Brown and Caldwell	Arctic Project, NI 43-101 Technical Report on Feasibility Study, Ambler Mining District, Alaska, with an effective date of January 20, 2023 and filed on February 14, 2023 Arctic Project S-K 1300 Technical Report Summary with report date of November 30, 2022, filed February 14, 2023
BORNITE	Henry Kim, P.Geo., Wood Canada Limited Alan Drake, P.L.Eng., Wood Canada Limited	NI 43-101 Technical Report Mineral Resource Update of the Bornite Project, Northwest Alaska, USA with an effective date of January 26, 2023, filed February 14, 2023 Bornite Project S-K 1300 Technical Report Summary with report date of November 30, 2022, filed February 14, 2023

Richard Gosse, P.Geo., Vice President, Exploration for Trilogy, is a Qualified Person as defined by National Instrument 43-101. Mr. Gosse has reviewed the scientific and technical information in this presentation and approves the disclosure contained herein.

CAUTIONARY NOTE TO UNITED STATES INVESTORS

This presentation has been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ in some respects from the requirements of U.S. securities laws. The SEC's new mining disclosure rules under Regulation S-K 1300 are closer, but not identical to NI 43-101 and CIM Definition Standards. The Company began reporting in accordance with Regulation S-K 1300 with its Form 10-K for the year ended November 30, 2022. The Mineral Resource and Mineral Reserve Estimates determined in accordance with S-K 1300 are set forth in the Appendix in addition to tables showing the Mineral Resource and Mineral Reserve Estimates determined in accordance with Canadian standards.

NON-GAAP PERFORMANCE MEASURES

Some of the financial measures referenced in this presentation are non-GAAP performance measures. We have not reconciled forward-looking full year non-GAAP performance measures contained in this presentation to their most directly comparable GAAP measures, as permitted by Item 10(e)(1)(i)(B) of Regulation S-K. Such reconciliations would require unreasonable efforts at this time to estimate and quantify with a reasonable degree of certainty various necessary GAAP components, including for example those related to future production costs, realized sales prices and the timing of such sales, timing and amounts of capital expenditures, metal recoveries, and corporate general and administrative amounts and timing, or others that may arise during the year. These components and other factors could materially impact the amount of the future directly comparable GAAP measures, which may differ significantly from their non-GAAP counterparts. These measures are not recognized measures under US GAAP and do not have a standardized meaning prescribed by US GAAP and are therefore unlikely to be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement those US GAAP measures by providing further understanding of our results of operations from management's perspective and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with US GAAP. The Company believes that these measures, in addition to conventional measures prepared in accordance with US GAAP, provide investors an improved ability to evaluate the underlying performance of the Company.

AMBLER MINING DISTRICT¹

	COPPER billion pounds	ZINC billion pounds	GOLD million ounces	SILVER million ounces
ARCTIC (INDICATED)	2.35	3.22	0.675	52.0
ARCTIC (INFERRED)	0.19	0.29	0.062	5.0
BORNITE (INFERRED)	6.51			

 **High-Grade Copper**
with Zinc and Precious Metals

 **Located in Alaska**
a Safe, Rule of Law Jurisdiction

 **50/50 Joint Venture**
with South32 Limited

 **Ambler Mining District with**
Significant Exploration Upside

JV Focused on Developing the Upper Kobuk Mineral Projects (UKMP)

ARCTIC

- **Feasibility Study** results released Feb 14, 2023
- **Mineral Reserves:**
46.7 Mt @ 2.11% Cu, 2.9% Zn, 0.56% Pb,
0.42 g/t Au, 31.8 g/t Ag

Pre-Tax \$1.5 Billion NPV and 25.8% IRR

BORNITE







- 6.5 billion lbs of copper (Inferred)
- Cobalt mineralization at Bornite is comprised of cobaltiferous pyrite within and enveloping the copper mineralized zones

1. See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

SHARE CAPITALIZATION

Solid, Supportive Shareholder Base

WELL FUNDED BALANCE SHEET






-  **Cash ~US\$2.0 Million¹**
-  **No Debt**
-  **JV Cash ~US\$61.3 Million (TMQ's Interest ~US\$30.7 Million)¹**
-  **Market Cap ~US\$82 Million**
-  **Largely Institutionally Held**
-  **Meaningful Management Ownership**

1. As of February 29, 2024.
2. As of April 3, 2024. Fully diluted shares include 2.8 M Deferred Share Units and 2.3 M Restricted Share Units.
3. As of December 31, 2023. Sources: SEC filings and Bloomberg.

TSX, NYSE | TMQ

Issued and Outstanding	160.2 M ²
Options	14.4 M ²
Fully Diluted	179.6 M ²

MAJOR SHAREHOLDERS³

 THE ELECTRUM GROUP™ Electrum Group ~20.4%	TSP Capital ~3.0% TSP Capital Management Group, LLC
 SOUTH32 South32 Limited ~11.6%	RCF ~2.3% 
 PAULSON & CO. INC. Paulson & Co. ~9.0%	Tony Giardini (CEO) ~3.2%
 Konwave Konwave Transition Metals Fund ~3.3%	Elaine Sanders (CFO) ~1.8%

Above totals approximately 56%

THE AMBLER MINING DISTRICT IS MORE THAN A HIGH-GRADE COPPER DISTRICT

It is a Source of Essential Minerals Listed on the
U.S. Critical Minerals List



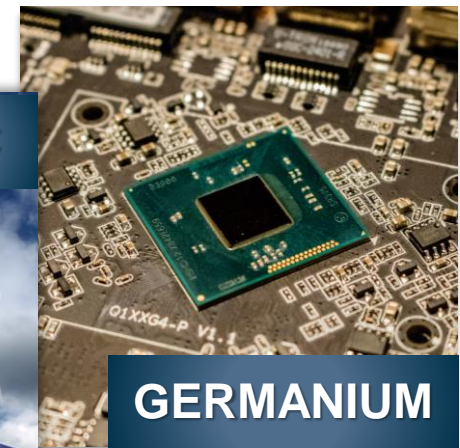
*Used in electric motors,
batteries of electric
vehicles*



*Used in electric vehicle
batteries*



*Used in solar and wind
energy, galvanizing steel*



*Used in semiconductor
chips*

The U.S. Inflation Reduction Act provides a 10% annual tax credit on production costs for critical minerals that are mined or produced in the U.S.

CORPORATE HIGHLIGHTS – PARTNERSHIPS

Strong Partnerships to Advance the Ambler Mining District in Alaska

1. Joint Venture Partnership with South32

South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

2. Local Native Partnership with NANA

Agreement/Business Relationship with strong community relationships

3. Infrastructure Partnership with State of Alaska

AIDEA currently advancing road access



JOINT VENTURE PARTNERSHIP with South32

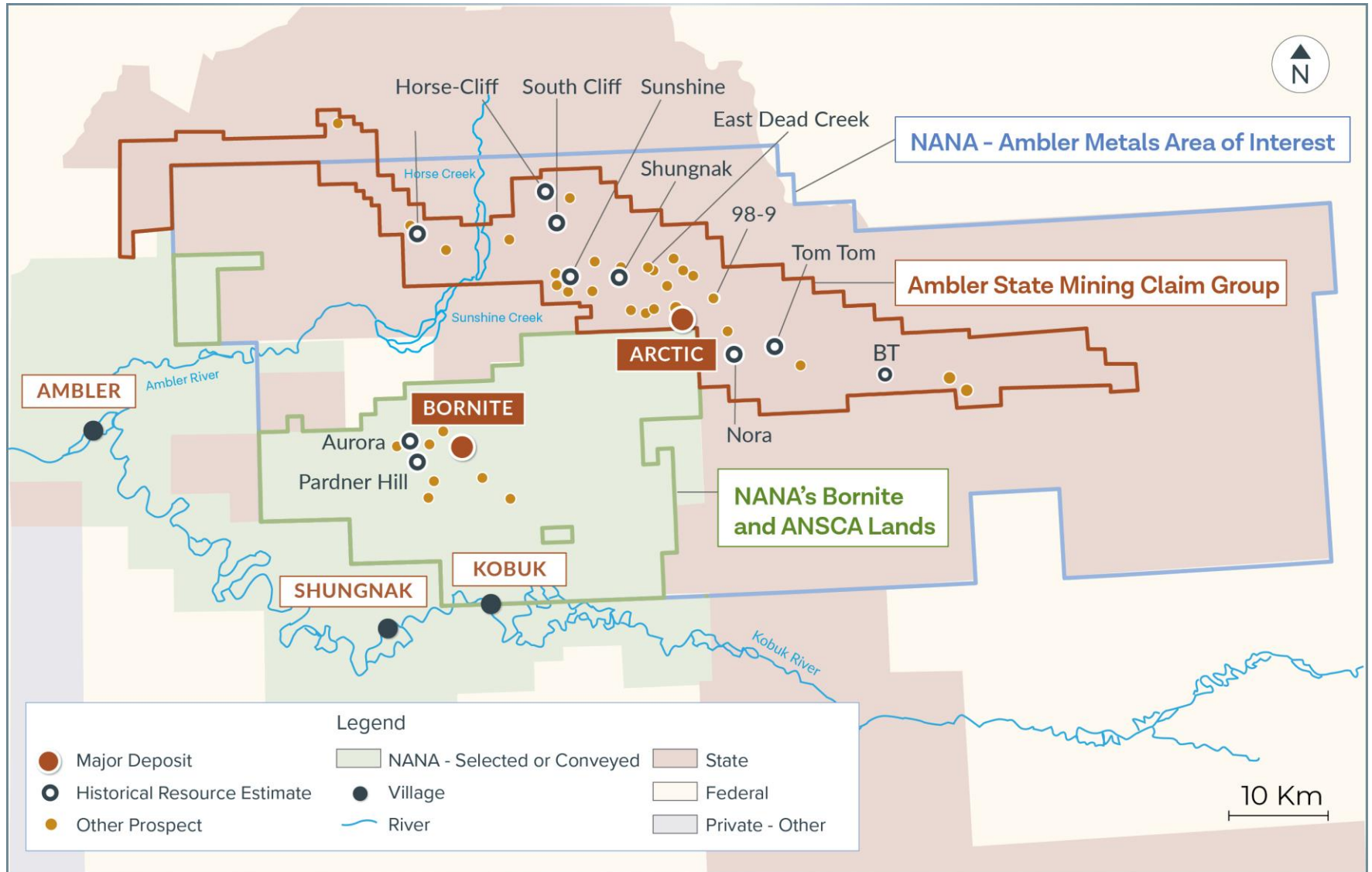
South32 Limited Exercised its Option to Form a
Joint Venture with Trilogy



- South32 is a global diversified metals and mining company with a market capitalization of ~\$9 billion
- In early 2020, South32 contributed ~\$145 million into the Joint Venture and Trilogy contributed the Upper Kobuk Mineral Projects (includes Arctic and Bornite)
- \$72.5 million of initially contributed cash is attributable to each of South32 and Trilogy

UPPER KOBUK MINERAL PROJECTS JV AREA

Total Land Package of 190,929 Ha (471,796 Acres)



CORPORATE HIGHLIGHTS – PARTNERSHIPS

Strong Partnerships to Advance the Ambler Mining District in Alaska

1. Joint Venture Partnership with South32

South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

2. Local Native Partnership with NANA

Agreement/Business Relationship with strong community participation

3. Infrastructure Partnership with State of Alaska

AIDEA currently advancing road access



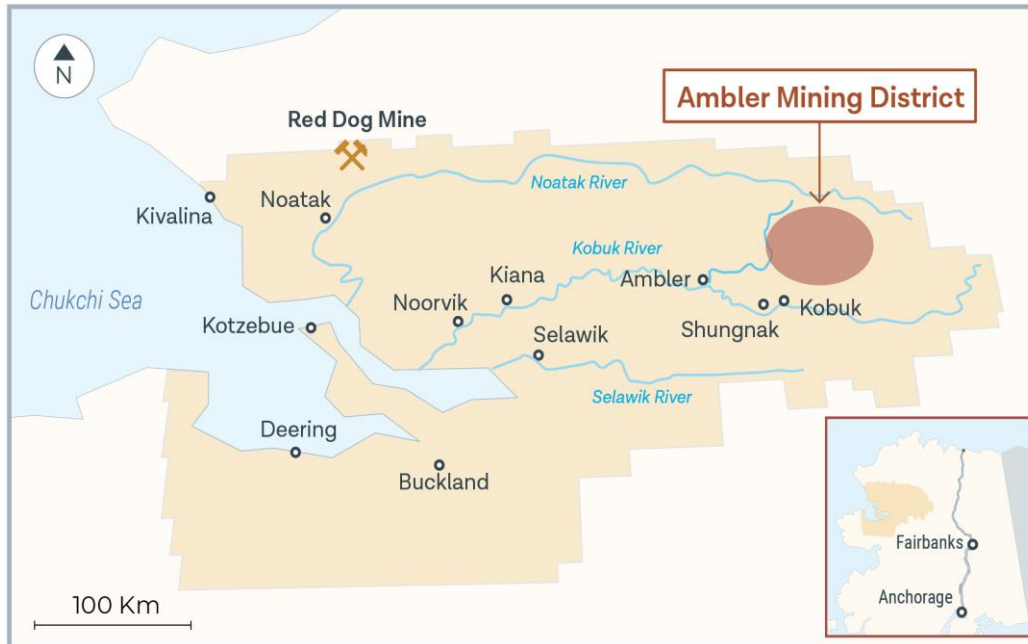
NANA



AMBLER MINING DISTRICT

Strong Local Support for Mining

NANA has an established mining history in Northwest Alaska, with its partnership in the Red Dog Mine, one of world's largest producers of zinc



- 🌐 **Politically Stable**
- 🌐 **Rule of Law**
- 🌐 **Recognized Mineral Potential**
- 🌐 **Resource Extractive Industries**
are the Largest Contributors to Alaska's Economy
- 🌐 **Well Established Permitting Process**
- 🌐 **Supportive Borough Government – tax base for region**
- 🌐 **NANA Agreement**

- ▶ **NANA** - Alaskan Regional Native Corporation with 14,000 Iñupiat shareholders
- ▶ Land owner and Joint partner with **Teck Resources Ltd. on Red Dog**

- ▶ **Red Dog is the largest zinc mine in the world** operating for nearly 30 years
- ▶ **Good jobs and local taxes** from Red Dog support NW Arctic Borough and School District

CORPORATE HIGHLIGHTS – PARTNERSHIPS

Strong Partnerships to Advance the Ambler Mining District in Alaska

1. Joint Venture Partnership with South32

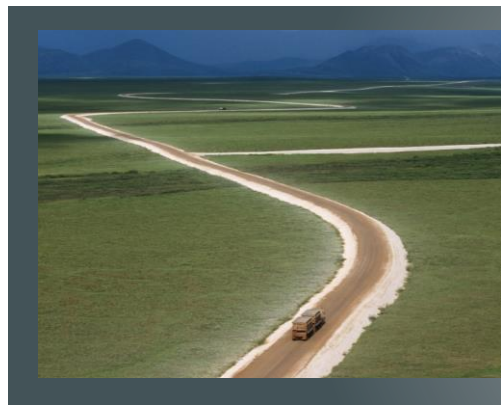
South32 contributed US\$145 million for its 50% interest in Ambler Metals. Trilogy contributed the UKMP assets into Ambler Metals.

2. Local Native Partnership with NANA

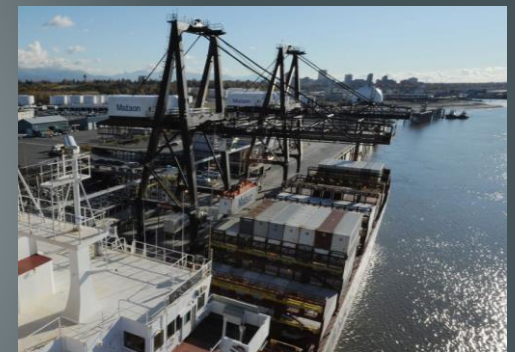
Agreement/Business Relationship with strong community relationships

3. Infrastructure Partnership with State of Alaska

Alaska Industrial Development & Export Authority ("AIDEA") currently advancing road access



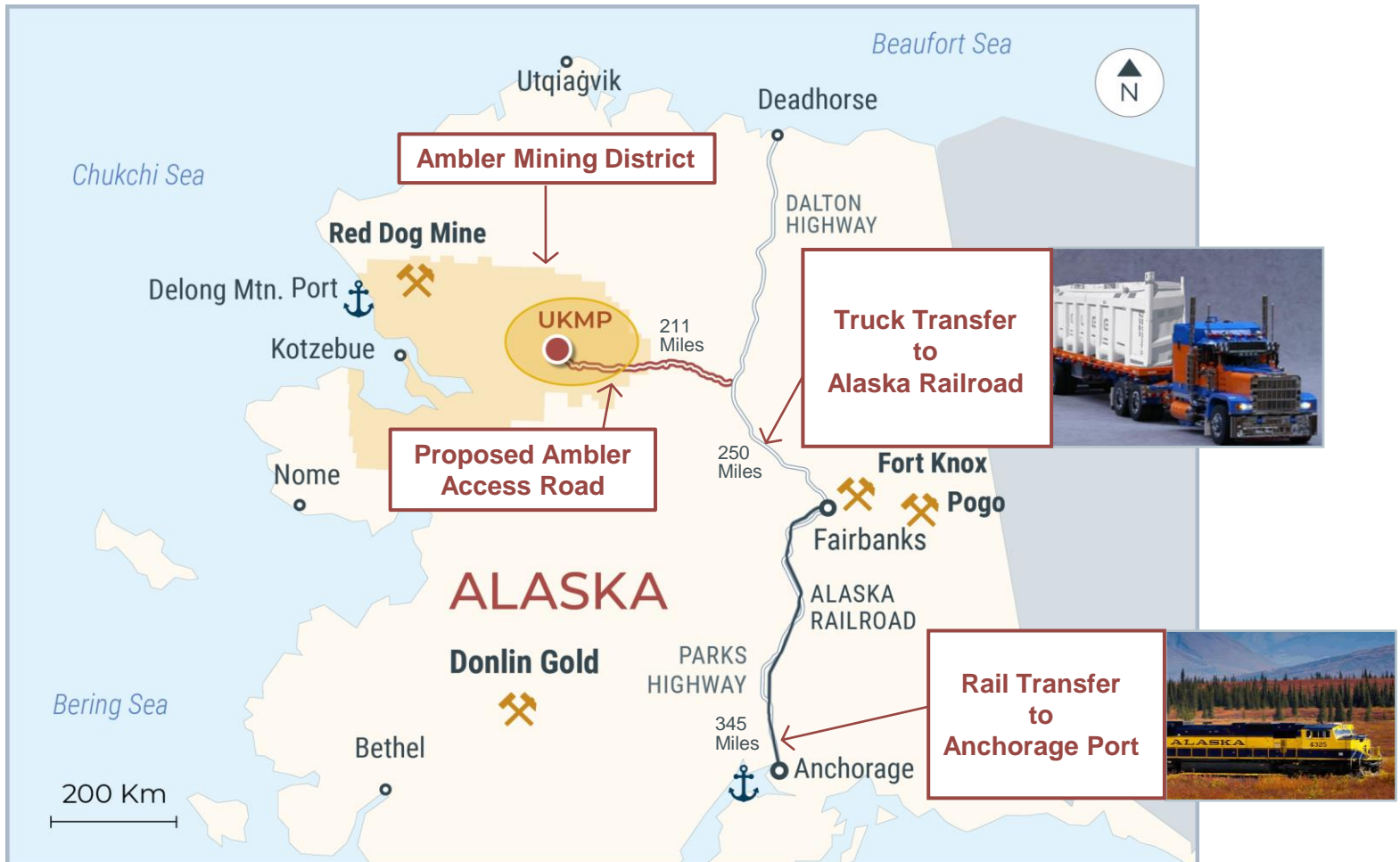
Access road to Red Dog Mine



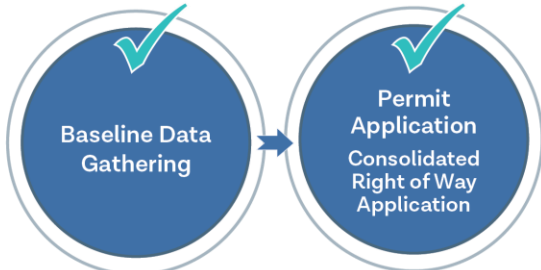
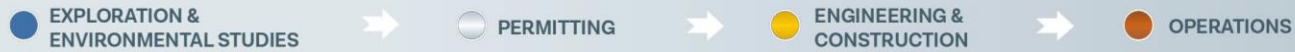
Port of Alaska in Anchorage

TRANSPORTATION PLAN

AIDEA Currently Advancing Road Access to Ambler Mining District

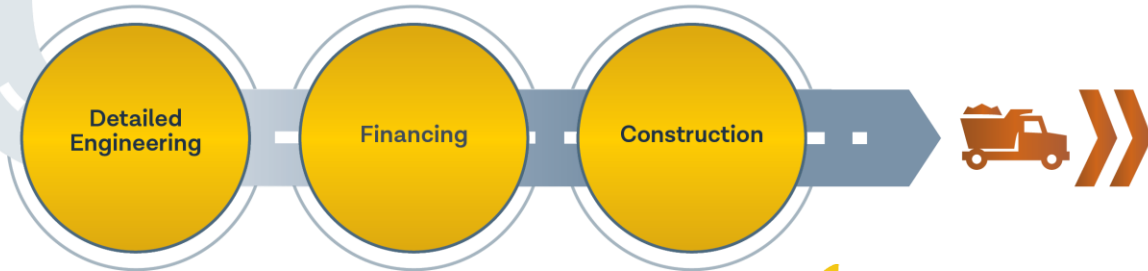
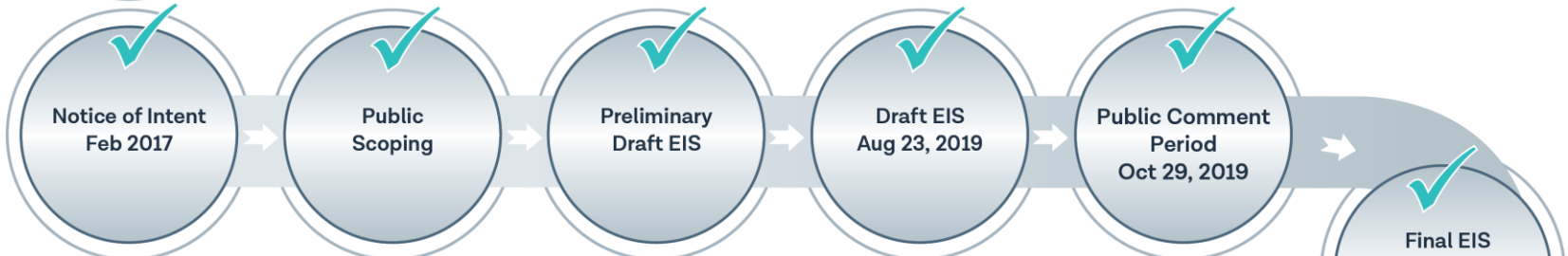


NEPA ROAD PERMITTING PROCESS (EIS)



- Bureau of Land Management was the lead agency for road permitting
- AIDEA is the proponent

- Detailed engineering has commenced on the road
- \$70M funding agreement for detailed engineering (50:50 split with Ambler Metals and AIDEA)



BI-PARTISAN SUPPORT FOR AMBLER ACCESS ROAD PROJECT

Letter sent from U.S. Senators Lisa Murkowski and Dan Sullivan, R-Alaska, and U.S. Representative Mary Peltola, D-Alaska, to U.S. Interior Secretary Deb Haaland reiterating strong support for the Ambler Access Project (AAP)

“ **Both Alaska and the nation need the jobs, revenues, and minerals that the AAP would facilitate access to.** [The Alaska National Interest Lands Conservation Act] mandates this project’s approval, and the Bureau of Land Management’s extensive analysis indicates that it can be **responsibly constructed with reasonable protections.**

Approving the AAP would **deliver significant economic and security benefits for Alaska and the U.S.**

Rejecting the AAP, or approving it in a non-viable manner, would cost us those benefits, prolong our deep dependence on foreign minerals, and magnify the vulnerabilities and atrocities associated with it.

– December 22, 2023

TRIBAL SUPPORT FOR AMBLER ACCESS ROAD PROJECT

Resolutions in support of the Road have been passed by the following Alaskan Tribal Councils

Ruby (Resolution passed March 2024)

“We want to have a say over our future and supporting the Ambler Road is one way we can plan for future generations.” – Patrick McCarty, First Chief of the Ruby Tribal Council

Hughes (Resolution passed March 2024)

“Supporting the Ambler Road is our way of steering towards a path of economic strength and job creation.” – Thelma Nicholia, Chief of Hughes Village

Allakaket (Resolution passed Dec 2023)

“What happens to our communities and Tribal members if a road is not built and no jobs or opportunity exists for our children and future generations.” – PJ Simon, First Chief of Allakaket Village Council

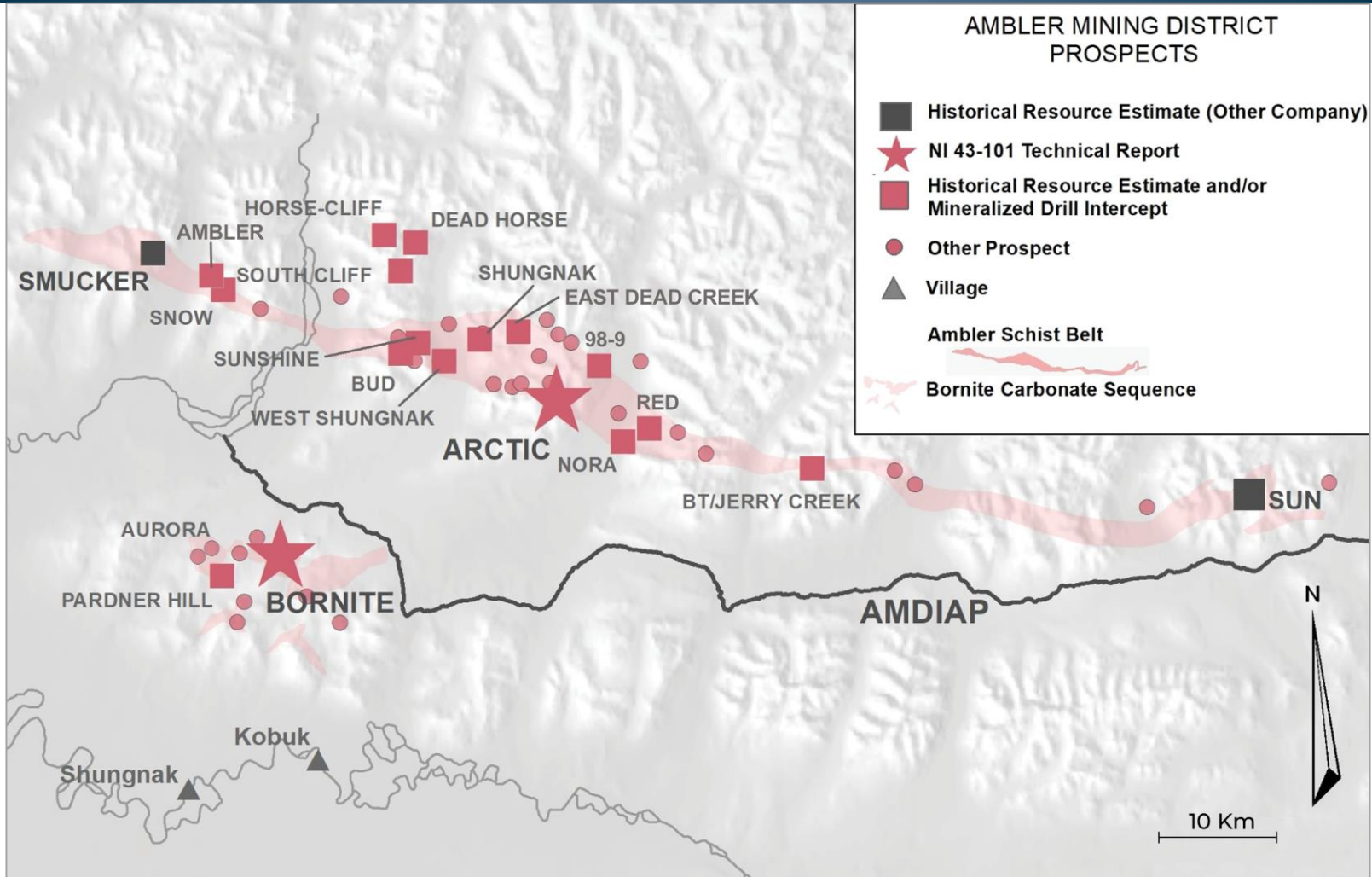
North Slope Borough & Northwest Arctic Borough

(Joint resolution passed April 2023)

“I strongly believe that the road will greatly benefit my community and I’m not alone. Many of my neighbors also support the road, as do other villages in the region.” – Miles Cleveland, President of the Native Village of Ambler and Northwest Arctic Borough Assembly Member

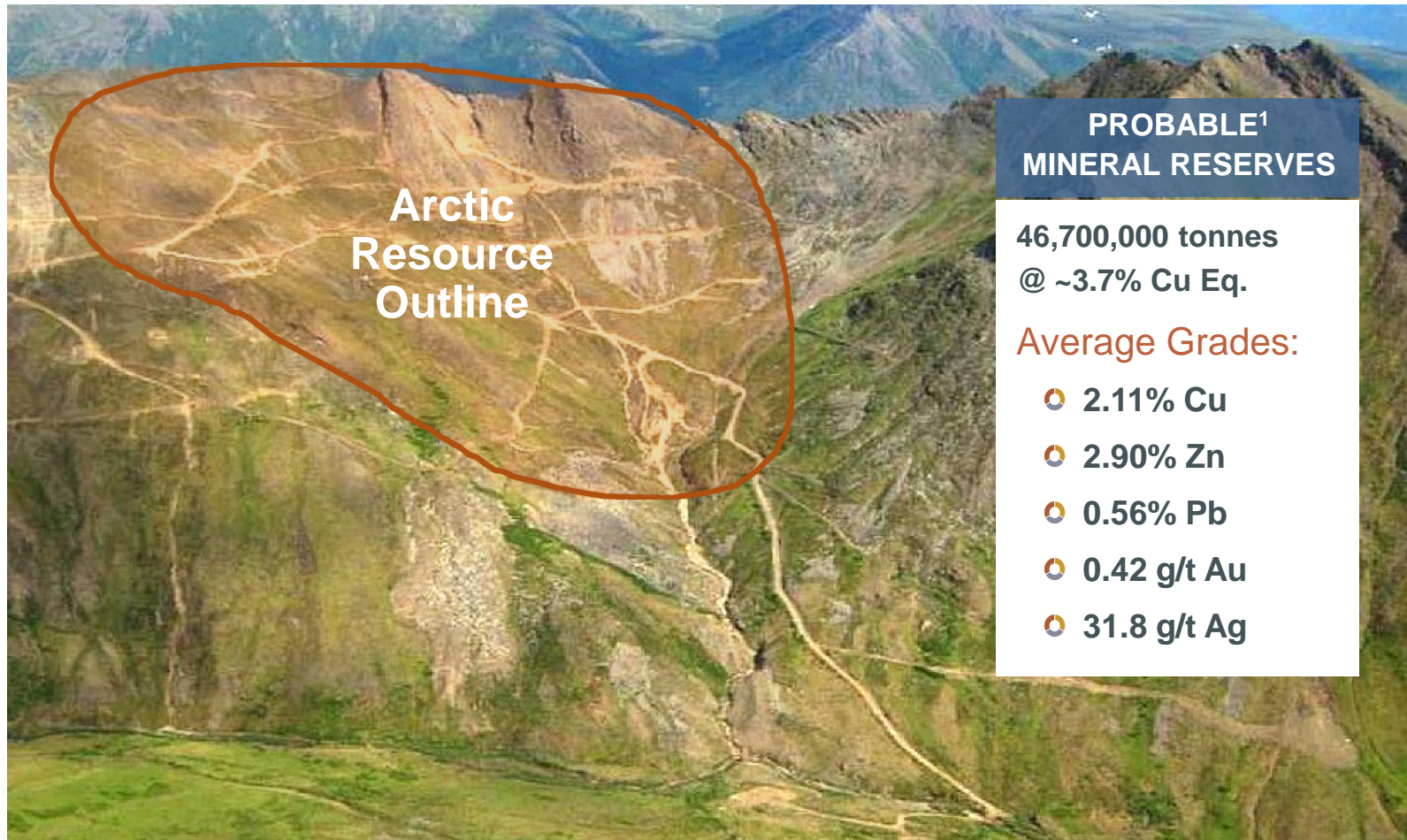
HIGH-GRADE STRING OF PEARLS

Ambler Mining District Hosts Deposits Rich in Copper, Zinc, Lead, Gold, Silver & Cobalt



RESERVES AT THE ARCTIC PROJECT

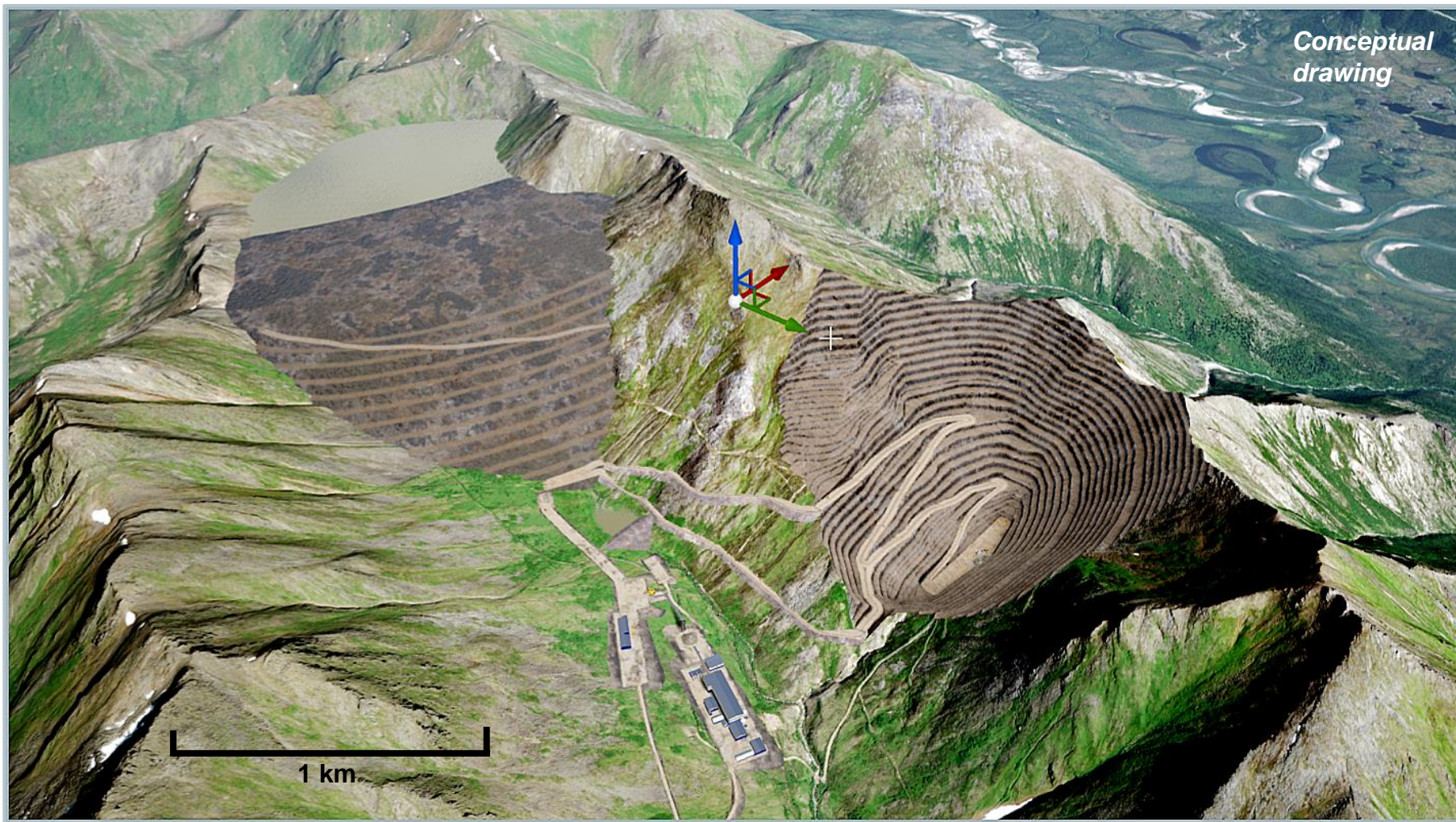
Probable Mineral Reserves



1. See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3. Copper Equivalent (CuEq) = Recovered Cu tonnes + (Au Price US\$/oz) / (Cu Price US\$/t) x (Recovered + gold ounces) + (Ag Price US\$/oz) / (Cu Price US\$/t) x (Recovered + silver ounces), using the Mineral Resource metal prices (see Arctic Report) and 100% metallurgical recoveries for all elements.

ARCTIC PROJECT GENERAL CONCEPT PLAN

Small Footprint Mine Site – Looking Northeast



ARCTIC FS – INPUTS & ECONOMIC RESULTS¹

Feasibility Inputs and Economic Results	Base Case Metal Prices	Spot Metal Prices (April 8, 2024)
Mine Life	13 Years	13 Years
Mill Capacity	10,000 tpd	10,000 tpd
Strip Ratio (Waste/Ore)	7.3:1	7.3:1
Average Annual Production	149M lbs Cu 173M lbs Zn 26M lbs Pb 2.8M oz Ag 32,500 oz Au	149M lbs Cu 173M lbs Zn 26M lbs Pb 2.8M oz Ag 32,500 oz Au
Base Case Metal Prices	\$3.65/lb Cu \$1.15/lb Zn \$1.00/lb Pb \$21.00/oz Ag \$1,650/oz Au	\$4.22/lb Cu \$1.18/lb Zn \$0.96/lb Pb \$27.76/oz Ag \$2,337/oz Au
Initial Capital Cost (\$ million)	\$1,176.8	\$1,176.8
Total Capital Cost (\$ million)	\$1,719.20	\$1,719.20
Operating Cost (\$/tonne milled)	\$59.83	\$59.83
Pre-Tax NPV (\$ million) at 8%	\$1,500.3	\$2,298.0
After-Tax NPV (\$ million) at 8%	\$1,108.1	\$1,691.0
Cash Costs, Net of By-Product Credits (\$/lb Cu Payable)	\$0.72	\$0.43
All-in Cost (\$/lb of Cu Payable)	\$1.61	\$1.32
Capital Intensity Ratio (\$ Initial Capital/Tonne of Copper Equivalent)	\$10,602	\$10,679
Pre-Tax IRR (%) / After-Tax IRR (%)	25.8/22.8	32.9/28.9
Payback Period - After-Tax (Years)	3.1	2.4

1. See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

ARCTIC PRODUCING QUALITY CONCENTRATES¹

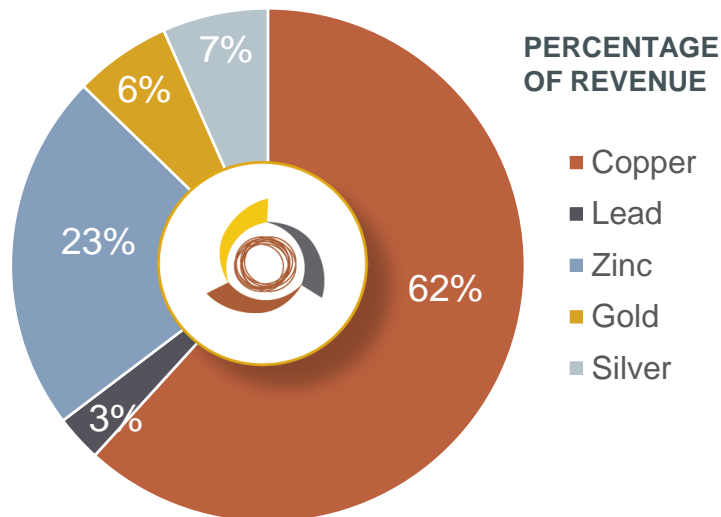
3 Separate High-Quality Concentrates

COPPER CONCENTRATE

- **92.1% recovery**
- **30.33% concentrate grade**
- Cu payable 96.5%
- Ag 161 g/t (4.67 oz); Ag payable 90%
- No significant penalty metals

ZINC CONCENTRATE

- **88.5% recovery**
- **53.73% concentrate grade**
- Zn payable 85%
- No significant penalty metals



PRECIOUS METAL CONCENTRATE

- **61.3% Pb recovery**
- **53.95% Pb concentrate grade**
- Pb payable 95%, subject to 3% deduction for concentrates <60% grade
- Ag 2,424 g/t (74.05 oz); Ag payable 95%
- Au 14 g/t (0.43 oz); Au payable 95%

1. See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

ARCTIC BOASTS ROBUST ECONOMIC METRICS

Profitability Index, After-Tax IRR and After-Tax NPV Benchmarking

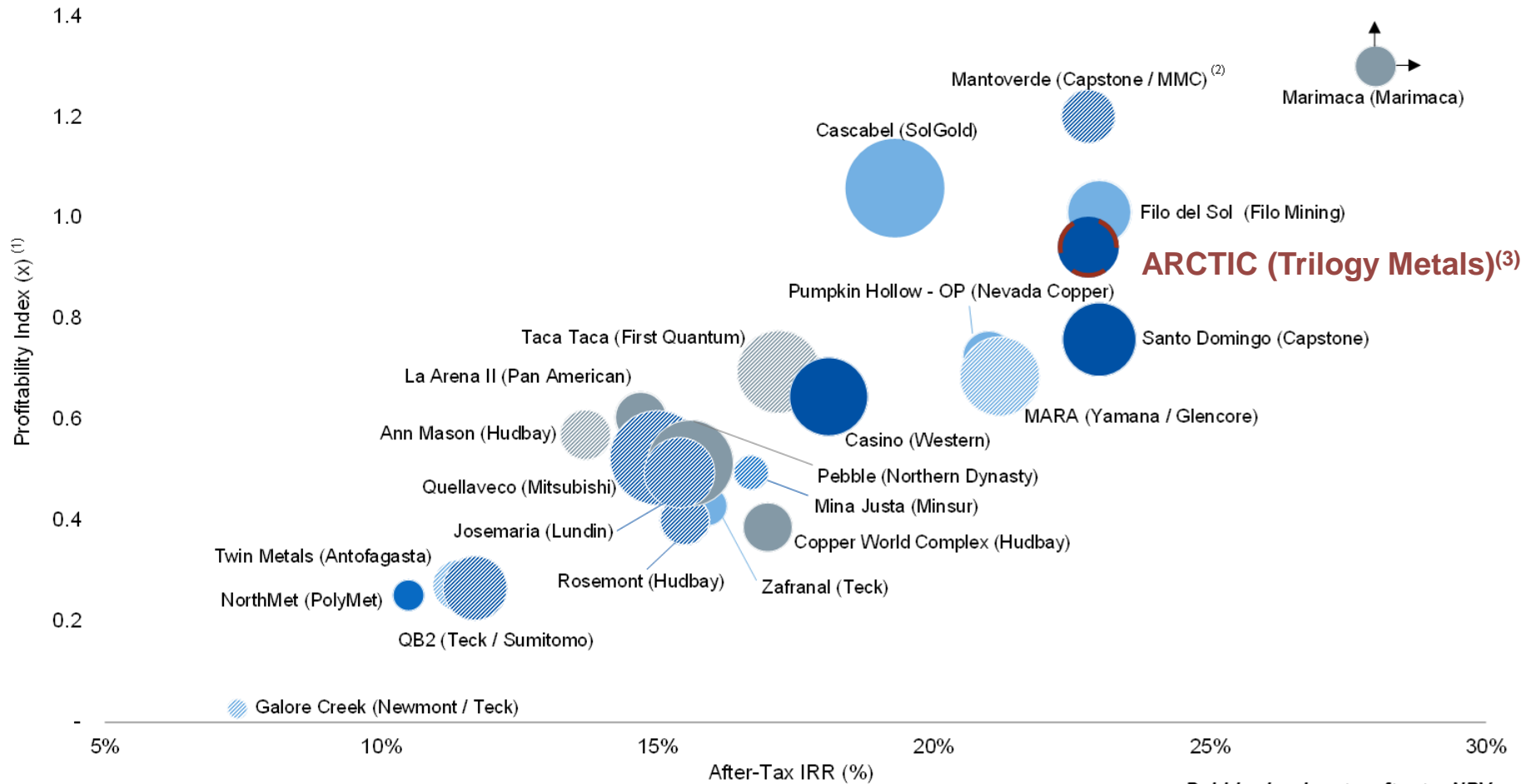


Chart by RBC Capital Markets

Data source: Wood Mackenzie, RBC database and company disclosure. Note: Project metrics shown on 100% basis.

1. Profitability index calculated as after-tax NPV divided by sum of initial capex and expansion capex
2. Based on adjusted Wood Mackenzie Model (assumes copper price of \$3.00/lb and gold price of \$1,350/oz)
3. See the Arctic Report for additional information, including details with respect to grade, quantity and metal or mineral content

Bubble size denotes after-tax NPV (US\$bn)



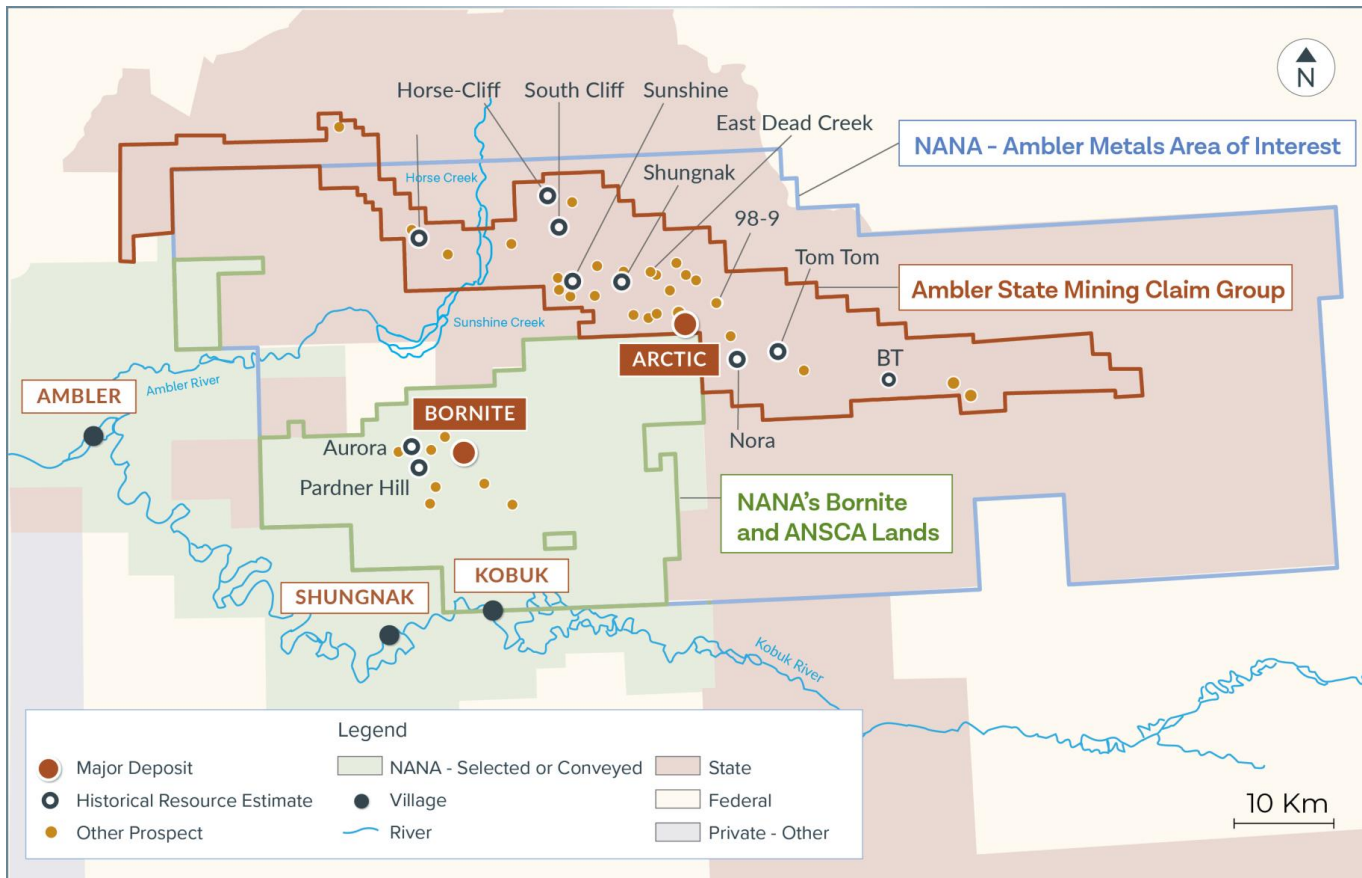
NO FEDERAL LANDS – EASIER TO PERMIT

Requires Federal, State and Borough Approvals

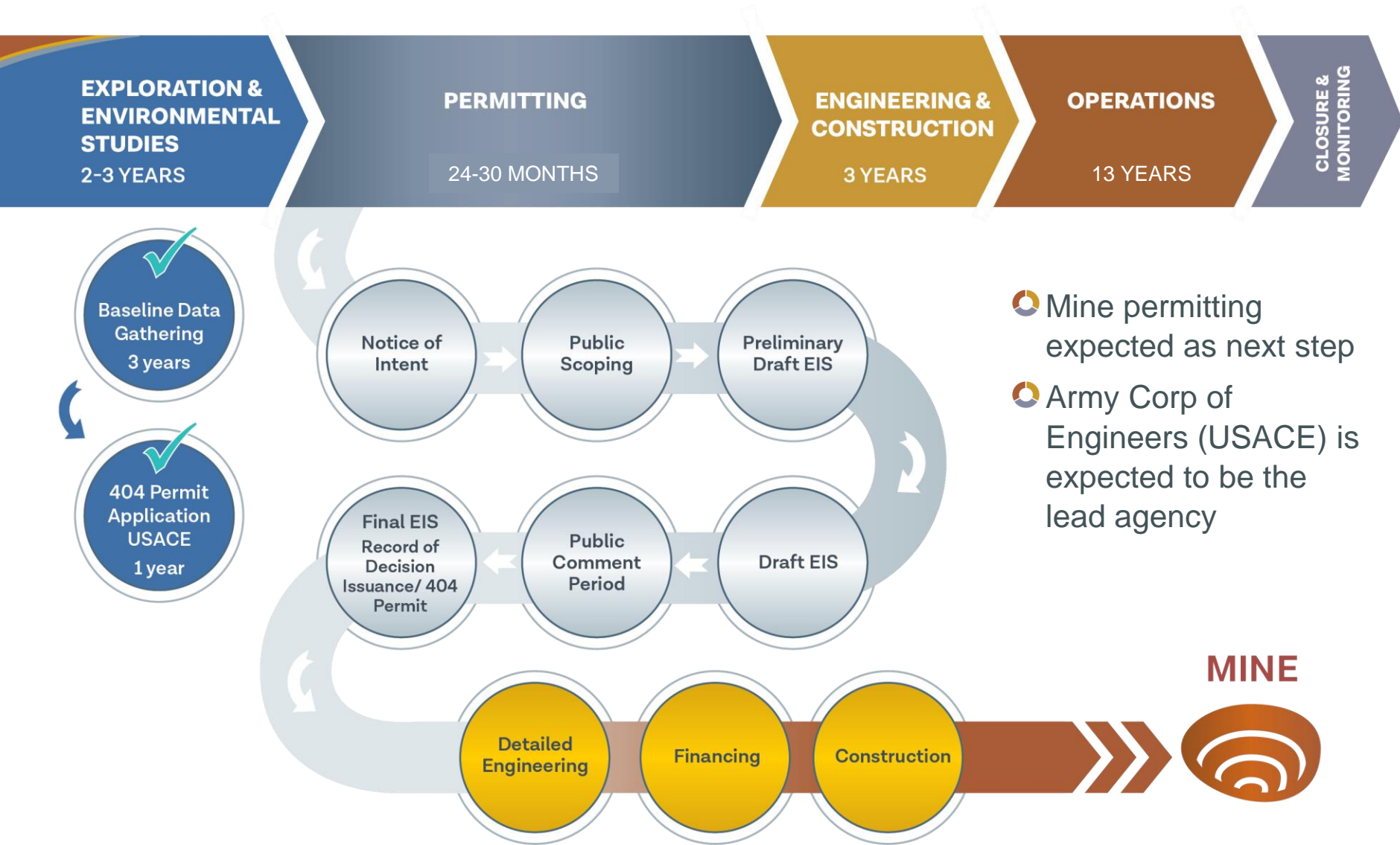
- ▶ 404 Wetlands Permit from the US Army Corps of Engineers is the only significant Federal Permit Required

- ▶ All other significant permits issued by the State of Alaska:

- ▶  Mine Operating Permit
- ▶  Dam Operating Permit
- ▶  Air Quality Permit
- ▶  Water Discharge Permit

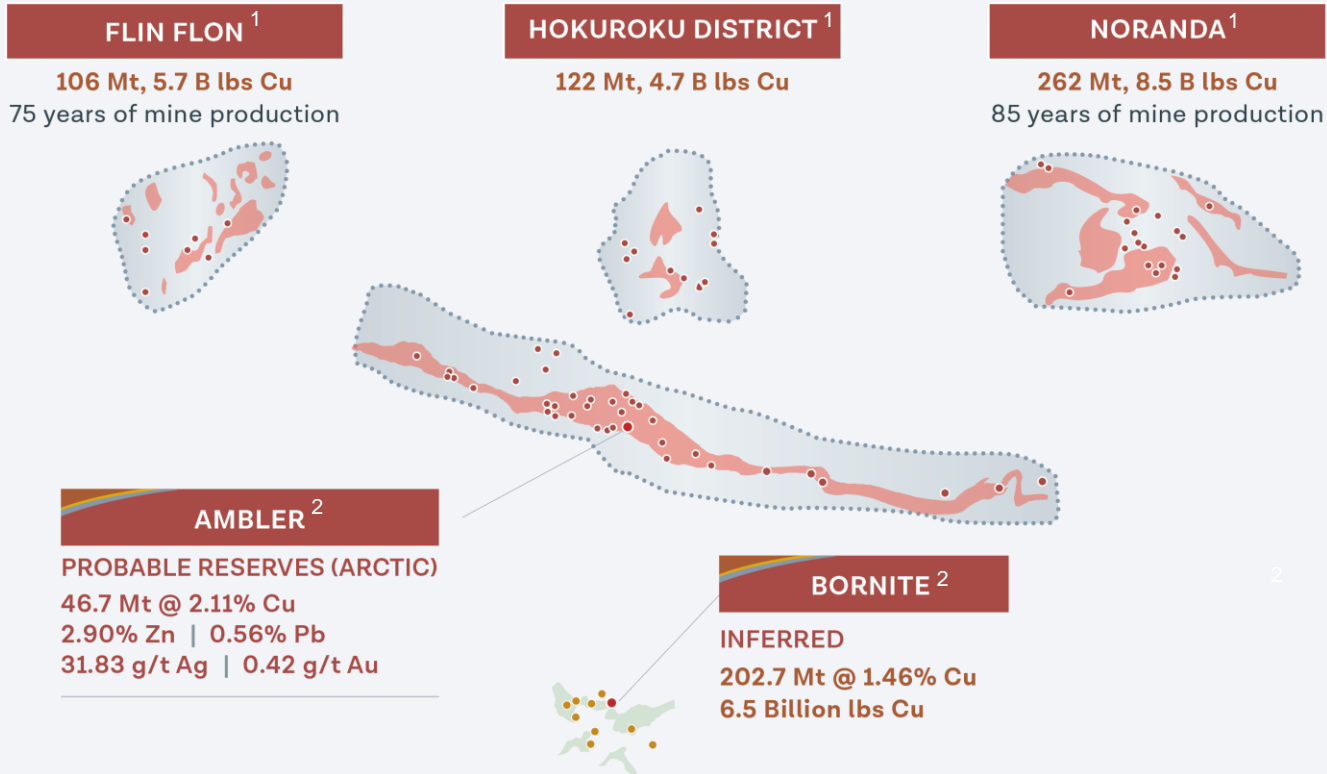


NEPA MINE PERMITTING PROCESS (EIS)



COMPARISON OF THE AMBLER VMS BELT WITH OTHER KNOWN BELTS

Multi-Billion Pound Copper VMS Districts of the World



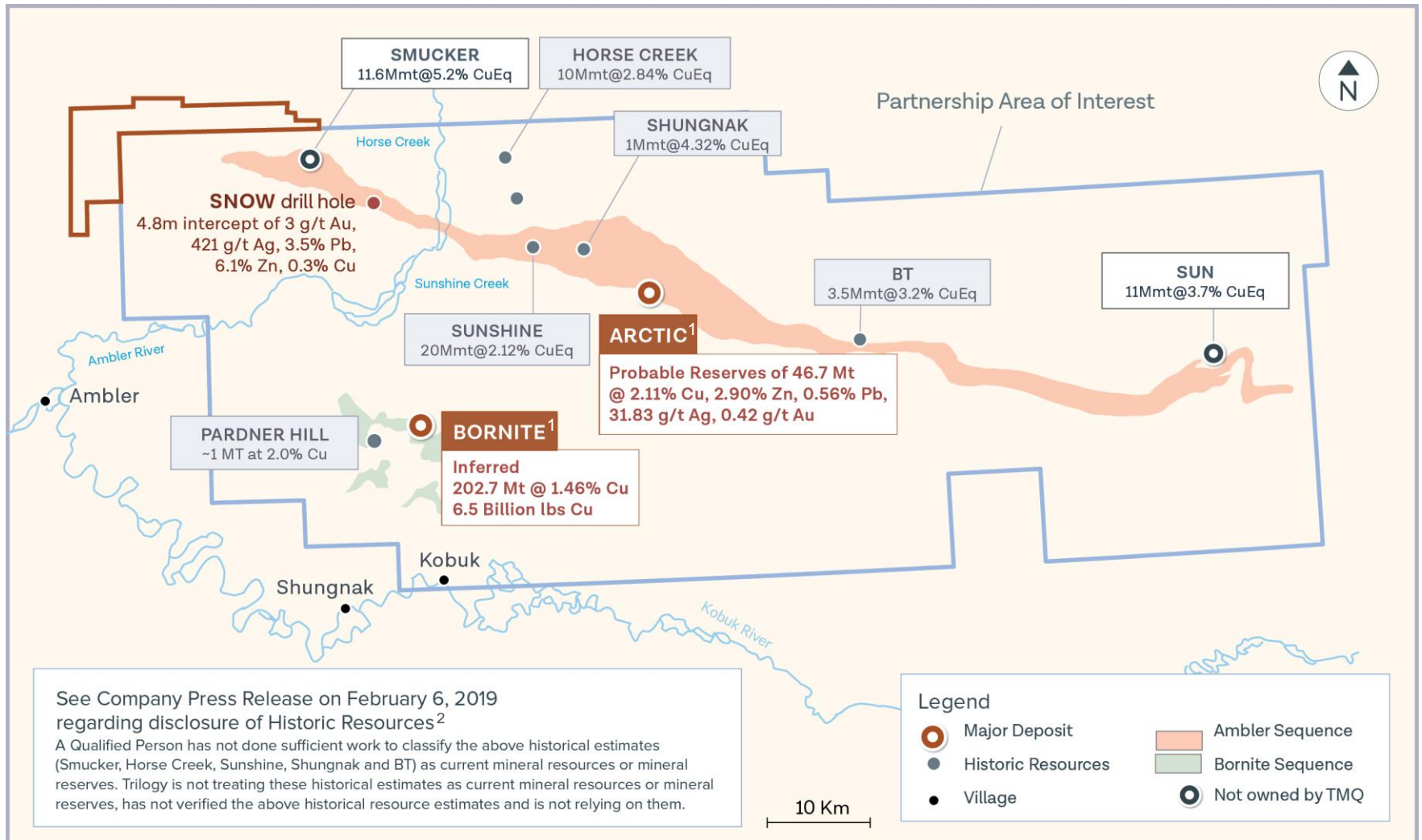
--- Dashed lines represent area of influence of proximal-scale alteration about each deposit

1. Source: Franklin et al., 2005, Volcanic-associated massive sulphides, Econ.Geol., Data includes all type of reserves and resources (inferred, indicated and measured resources, proven and probable reserves).
2. See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

20 Km



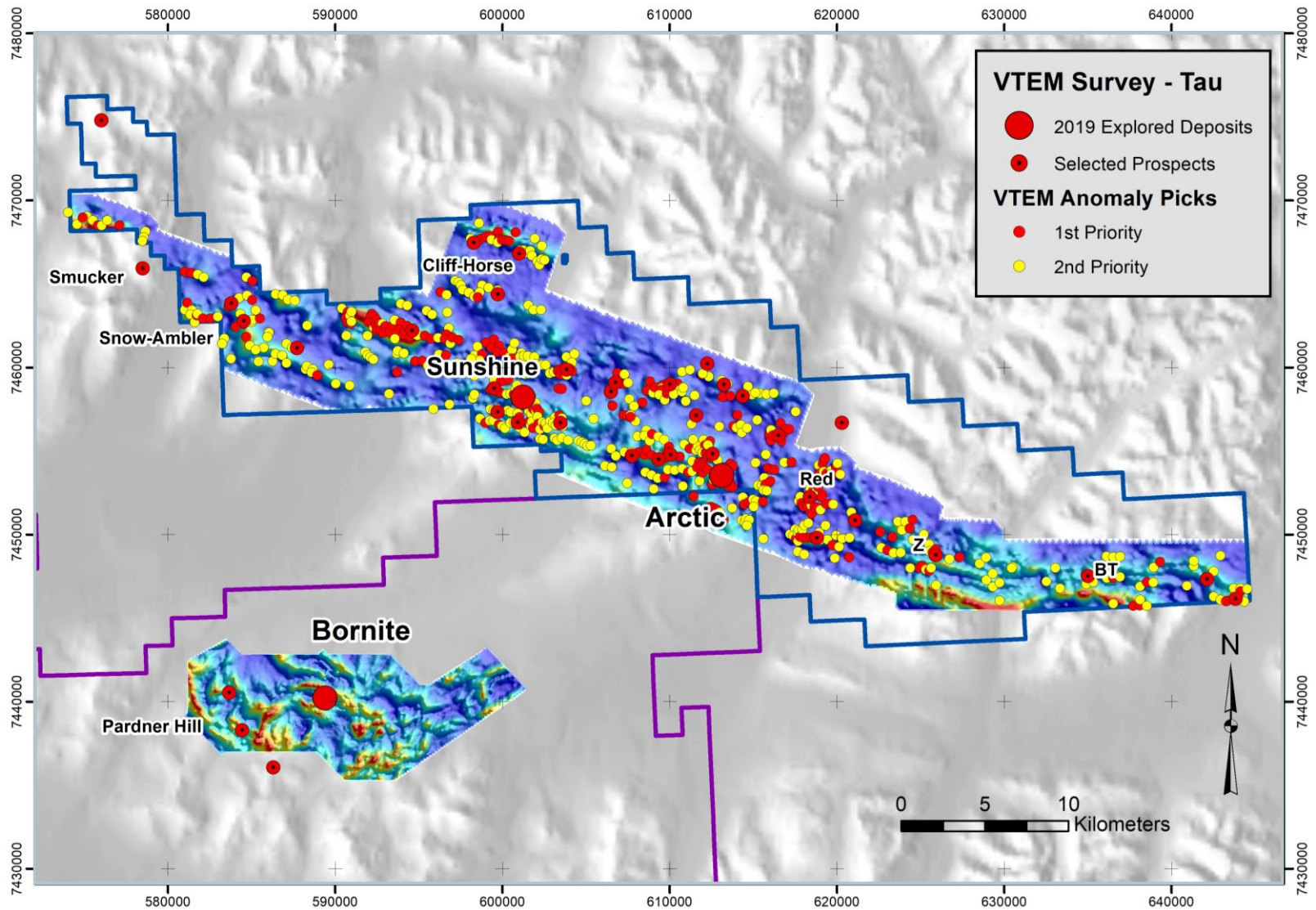
DISTRICT EXPLORATION: PEARLS ON A STRING



1. See the Arctic Report & Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

2. A Qualified Person has not done sufficient work to classify the above historical estimates (Smucker, Horse Creek, Sunshine, Shungnak and BT) as current mineral resources or mineral reserves. Trilogy is not treating these historical estimates as current mineral resources or mineral reserves, has not verified the above historical resource estimates and is not relying on them. The historical estimates were prepared prior to the adoption and implementation of National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101") and do not use categories that conform to the current Canadian Institute of Mining, Metallurgy and Petroleum Definition Standards for Mineral Resources and Mineral Reserves. Additional work, including drilling, would need to be carried out on these historical resources to make them compliant with NI 43-101.

NUMEROUS ELECTROMAGNETIC ANOMALIES



BORNITE¹

Testing Northern Extension

6.514 billion pounds of Inferred Copper Resource

Mineral Resources for the Bornite Deposit (effective date, January 26, 2023)

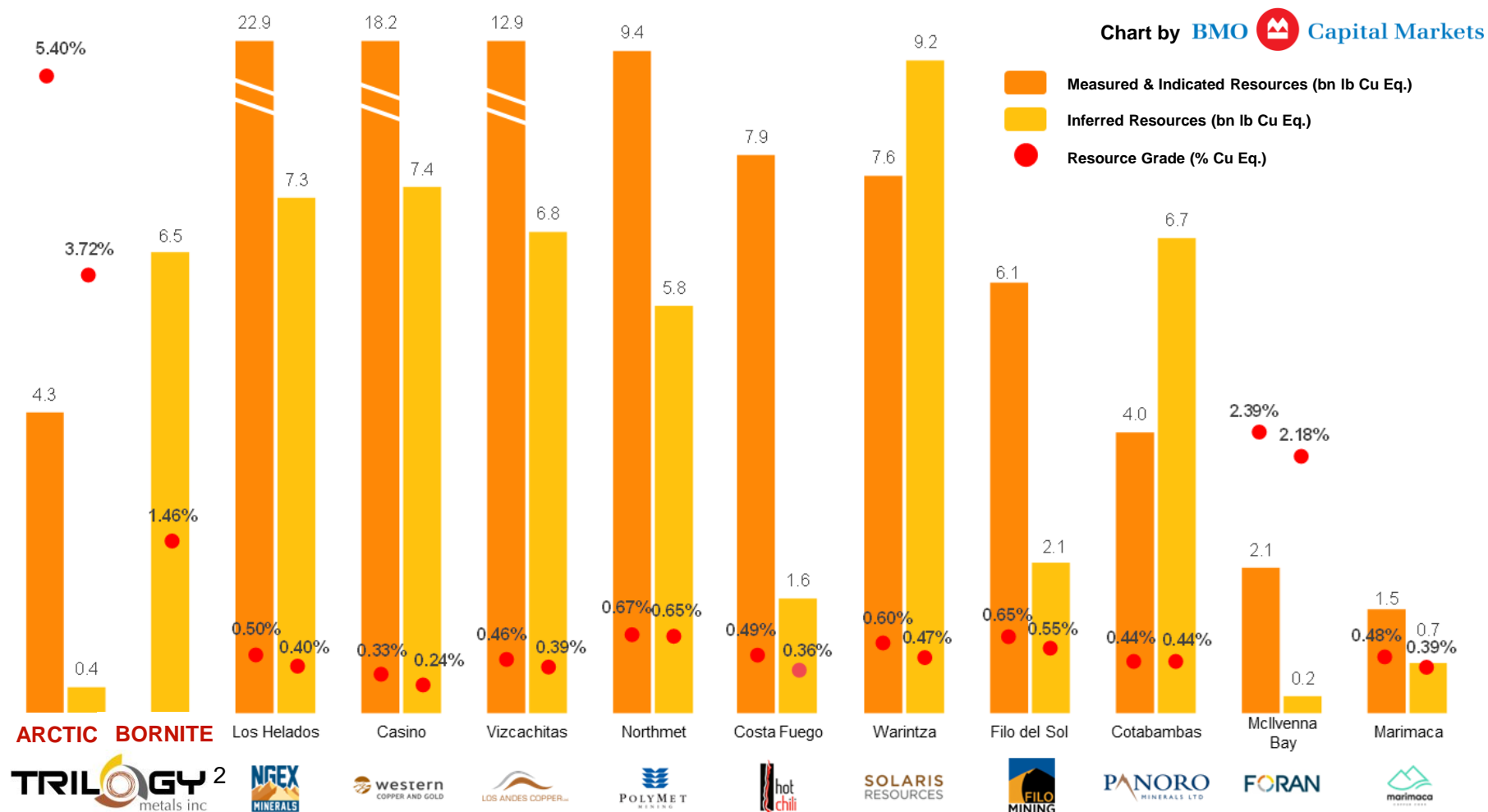
Class	Type/Area	Cut-off Cu (%)	Tonnes (Mt)	Average Grade Cu (%)	Contained Metal Cu (Mlb)
Inferred	In-Pit	0.50	170.4	1.15	4,303
	Outside-Pit South Reef	1.79	22.0	3.48	1,690
	Outside-Pit Ruby Zone	1.79	10.4	2.28	521
Total Inferred			202.7	1.46	6,514

Portions of South Reef Mineral Resource Amenable to Underground Mining

Class	Type/Area	Cut-off Cu (%)	Tonnes (Mt)	Average Grade Cu (%)	Contained Metal Cu (Mlb)
Inferred	In-Pit South Reef ²	1.79	11.0	3.56	864
	Outside-Pit South Reef ³	1.79	22.0	3.48	1,690
Total Inferred (South Reef)			33.0	3.51	2,554

(1) See the Bornite Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3. (2) Subset of the mineral resource and is not additive to the in-pit mineral resource. (3) Restatement of the mineral resources outside of the pit and is not additive to the mineral resource.

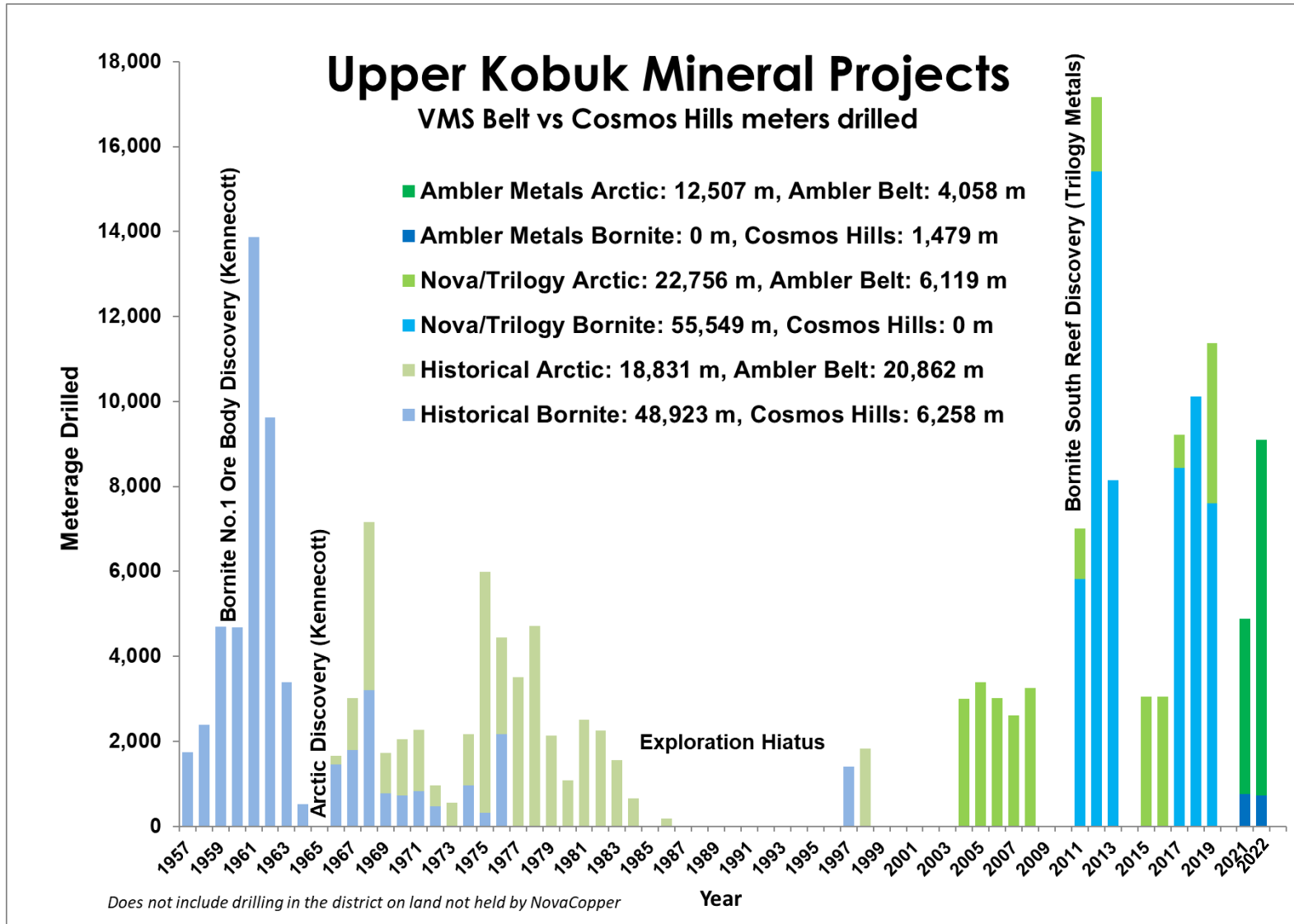
TRILOGY'S MINERAL RESOURCES COMPARED TO ITS PEERS¹



- Peer group data as per company filings. Following long-term prices used to calculate Cu Eq - Au: US\$1,650/oz, Ag: US\$22.15/oz, Cu: US\$3.50/lb, Zn: US\$1.20/lb, Pb: US\$0.95/lb.
- Assumes all assets on a 100% basis. Trilogy has a 50% interest in the UKMP which includes the Arctic and Bornite Projects. See the Arctic and Bornite reports (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

UPPER KOBUK MINERAL PROJECTS – RELATIVELY UNDEREXPLORED

197,342 Meters Drilled Since 1957



UPCOMING CATALYSTS

News Flow

- 🕒 Optimization of Arctic engineering studies by Ambler Metals
- 🕒 Ambler Access Project: Record of Decision in Q2 2024





TAIKUU!



TRUST | RESPECT | INTEGRITY

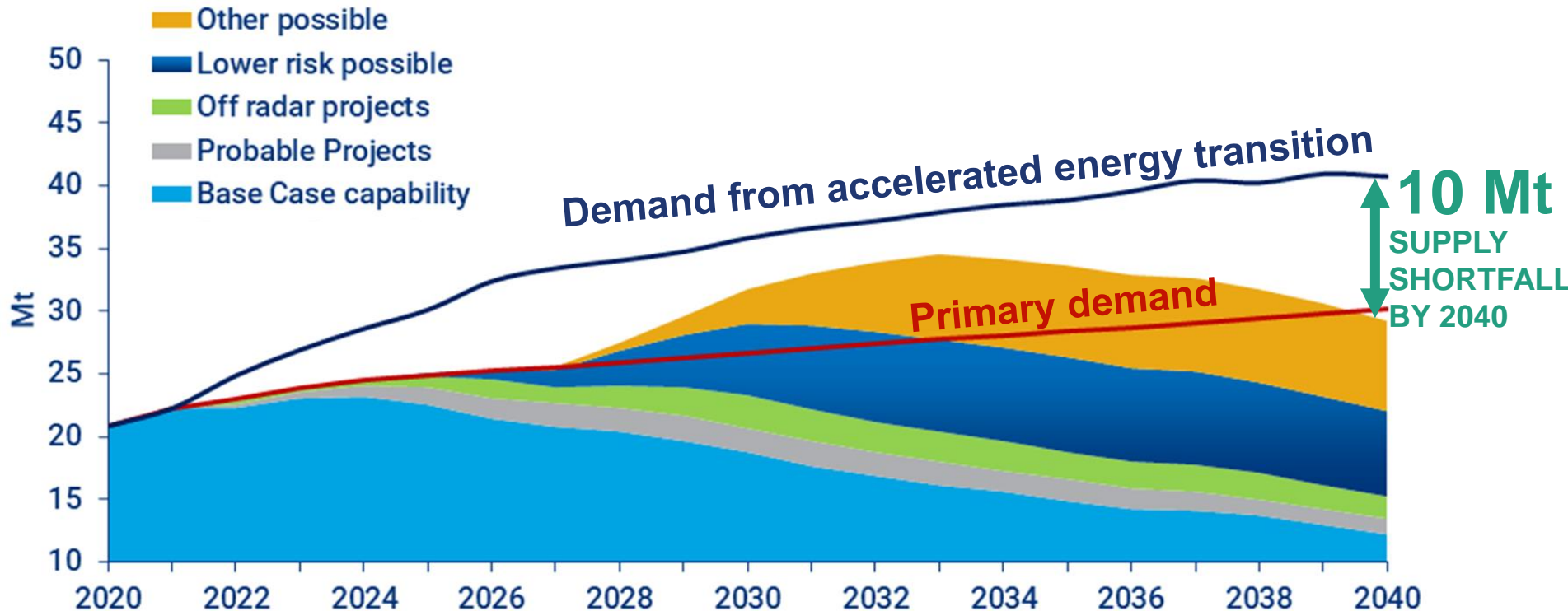
APPENDIX



WHY COPPER?

Copper is critical to the global transition to clean energy

Primary copper demand scenarios versus mine supply potential



Source: Wood Mackenzie online article, March 23, 2021

MANAGEMENT TEAM

CORPORATE EXPERIENCE

BIO

TONY GIARDINI

President, CEO and Director of the Board

- *Kinross Gold*
- *Ivanhoe Mines*
- *Placer Dome*
- *KPMG*

Former President of Ivanhoe Mines Ltd. from May 2019 to March 2020. Former Executive Vice President and Chief Financial Officer of Kinross Gold Corporation from December 2012 to April 2019. Former Chief Financial Officer of Ivanhoe Mines Ltd. from May 2006 to April 2012. Spent more than 10 years with Placer Dome Inc. as Vice President and Treasurer. A Chartered Professional Accountant and a Certified Public Accountant and spent 12 years with accounting firm KPMG prior to joining Placer Dome Inc.

ELAINE SANDERS

CFO & Corporate Secretary

- *NovaGold Resources*
- *Alexco Resource*

More than 25 years of experience in audit, finance, and accounting with public and private companies. Has been involved with numerous financings and acquisitions, and has listed companies on both the TSX and NYSE American. Responsible for all aspects of financial reporting, compliance, and corporate governance of Trilogy. Holds a Bachelor of Commerce degree from the University of Alberta, and is a Chartered Professional Accountant and a Certified Public Accountant.

RICHARD GOSSE

VP, Exploration

- *Ivanhoe Mines*
- *Dundee Precious Metals*

35 years of experience as a geologist, including 15 years at the Vice President level. Former Senior Vice President Exploration at Dundee Precious Metals Inc. overseeing exploration strategy and initiatives to achieve corporate targets to replace mine reserves in Bulgaria and Armenia. Former VP, Exploration at Ivanhoe Mines Ltd. (now Turquoise Hill Resources Ltd.) where he led the exploration efforts at the world-class Oyu Tolgoi copper-gold project in Mongolia. Holds a B.Sc. in Geology at Queens University and a M.Sc. in Mineral Exploration at Imperial College of Science and Technology, London.

BOARD OF DIRECTORS

JANICE STAIRS

Chair

CORPORATE EXPERIENCE

- *Namibia Critical Metals*
- *Endeavour Mining*
- *Etruscan Resources*
- *McInnes Cooper*

BIO

Over 30 years of experience working with companies involved in the resource sector including positions held with Namibia Critical Metals Inc., Endeavour Mining Corporation and Etruscan Resources Inc. Former partner with McInnes Cooper (formerly Patterson Palmer), where she continues to act as counsel to the firm. Practiced law in private practice for 19 years specializing in corporate finance and resource-related issues for private/public companies. Graduated from Dalhousie Law School and holds a Masters of Business Administration from Queen's University.

JIM GOWANS

Director

- *Arizona Mining*
- *Barrick Gold*
- *DeBeers*
- *Placer Dome*
- *Cominco*

Former President, CEO and a director of Arizona Mining Inc. until it was purchased by South32 Limited in August 2018. Former senior advisor to the chair of the board of Barrick Gold Corporation, and served variously as co-president, executive vice president and COO. Former managing director of the Debswana Diamond Company. Held executive positions at DeBeers SA, DeBeers Canada Inc. and PT Inco in Indonesia, and with Placer Dome Ltd. At Cominco Limited, oversaw design, construction and operations at the Red Dog Mine. Holds a Bachelor of Applied Science degree in mineral engineering from the University of British Columbia.

WILLIAM HAYDEN

Director

- *Ivanhoe Mines*
- *GoviEx Uranium*
- *Sunward Resources*

A geologist with over 39 years of experience in the mineral exploration industry. Co-founder and former President of Ivanhoe Nickel and Platinum (now Ivanhoe Mines Ltd). Worked in a management capacity with several exploration and mining companies both in Australia and overseas. Former President of Ivanhoe Philippines and GoviEx Uranium Inc., and a former director of Sunward Resources Ltd.

WILLIAM HENSLEY

Director

- *University of Alaska*
- *NANA Regional Corp.*
- *Maniilaq*
- *Alaska Permanent Fund Corp.*
- *Alaska Railroad*

Former Distinguished Visiting Professor in the Dept. of Business & Public Policy at the University of Alaska. Former Commissioner of Commerce and Economic Development, where he was responsible for Alaska's involvement in tourism and seafood marketing, international trade, insurance, banking and securities, and occupational licensing. Served on the Oil and Gas Policy Council, the Board of Directors of the Alaska Permanent Fund Corporation, the Alaska Railroad and the Alaska Industrial Development Authority. Founded NANA Regional Corporation, and Maniilaq, the regional non-profit representing the tribes in the Kotzebue region.

BOARD OF DIRECTORS *(continued)*

GREGORY A. LANG

Director

CORPORATE EXPERIENCE

- *NovaGold Resources*
- *Barrick Gold*

BIO

President and Chief Executive Officer of NOVAGOLD RESOURCES INC. Over 35 years of diverse experience in mine operations, project development and evaluations, including experience as President of Barrick Gold of North America. Held operating and project development positions over his 10-year tenure with Barrick Gold Corporation and, prior to that, with Homestake Mining Company and International Corona Corporation, both of which are now part of Barrick Gold Corporation. Holds a Bachelor of Science in Mining Engineering from University of Missouri-Rolla and is a Graduate of the Stanford University Executive Program.

DIANA WALTERS

Director

- *Amichel LLC*
- *Liberty Metals & Mining*
- *Liberty Mutual Asset Management*
- *Eland Capital*
- *Credit Suisse*
- *HSBC*

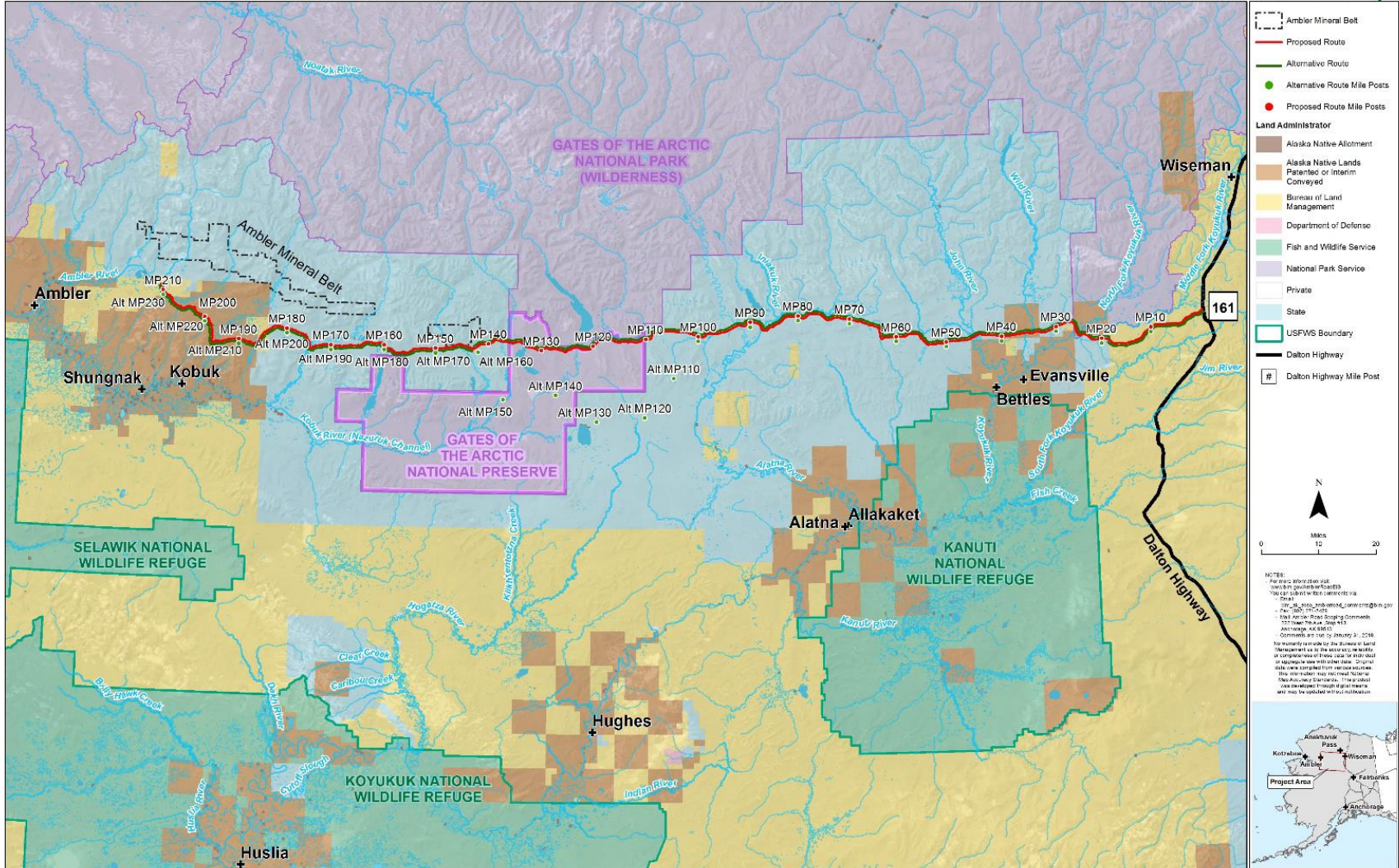
Over 35 years of experience in the natural resources sector, as a private equity investor, investment banker, CFO, board member and in other roles within the sector. Owner and sole manager of Amichel LLC, an investment company that also provides advisory services in the field of natural resources. Former President of Liberty Metals & Mining Holdings, LLC, and former member of senior management of Liberty Mutual Asset Management. Former Managing Partner of Eland Capital, LLC, a natural resources advisory firm founded by her, from 2007 to 2010. Extensive investment experience with both debt and equity through various leadership roles at Credit Suisse, HSBC and other firms. Former Chief Financial Officer of Tatham Offshore Inc., an independent oil and gas company with assets in the Gulf of Mexico. Graduated with Honors from the University of Texas at Austin with a B.A. in Plan II Liberal Arts and an M.A. in Energy and Mineral Resources.

AMBLER MINING DISTRICT Industrial Access Project (AMDIAP)

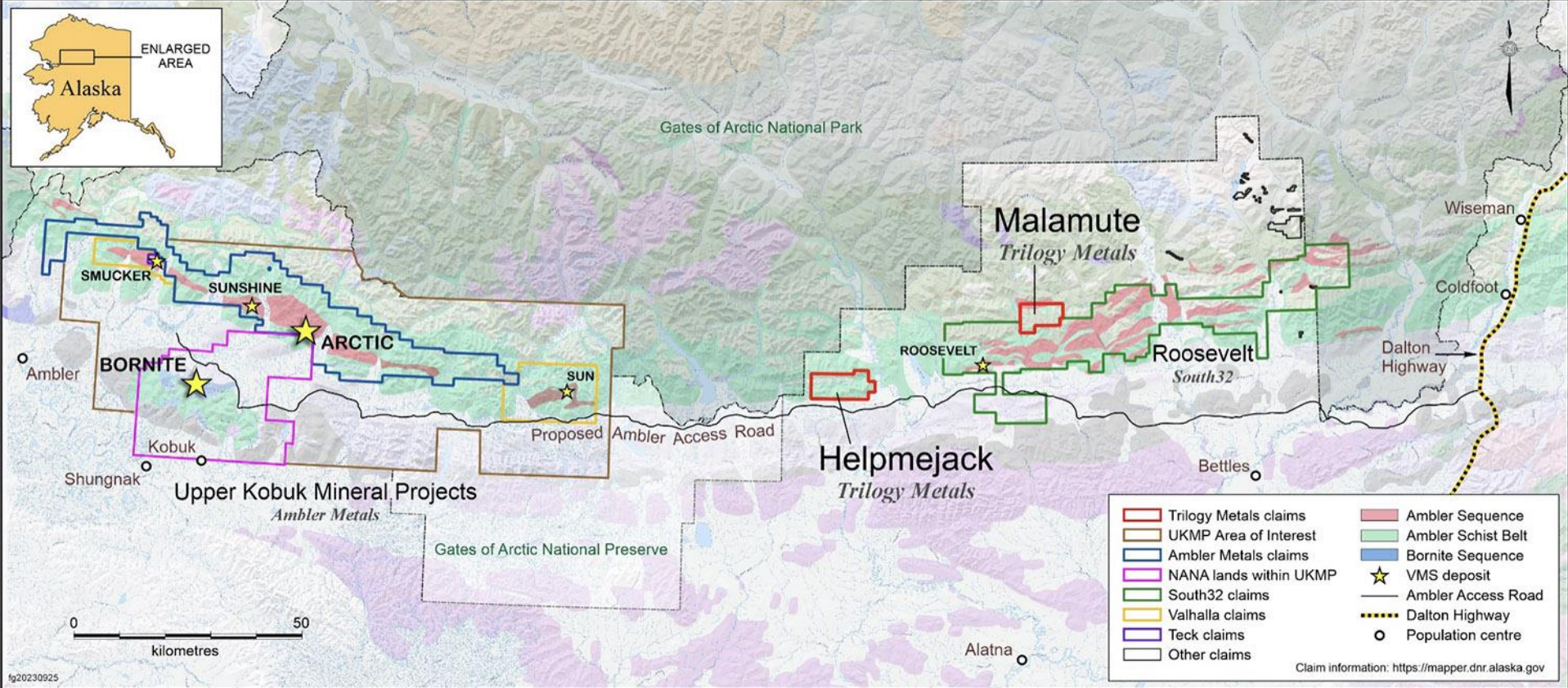
Scoping

Ambler Road EIS - Project Overview

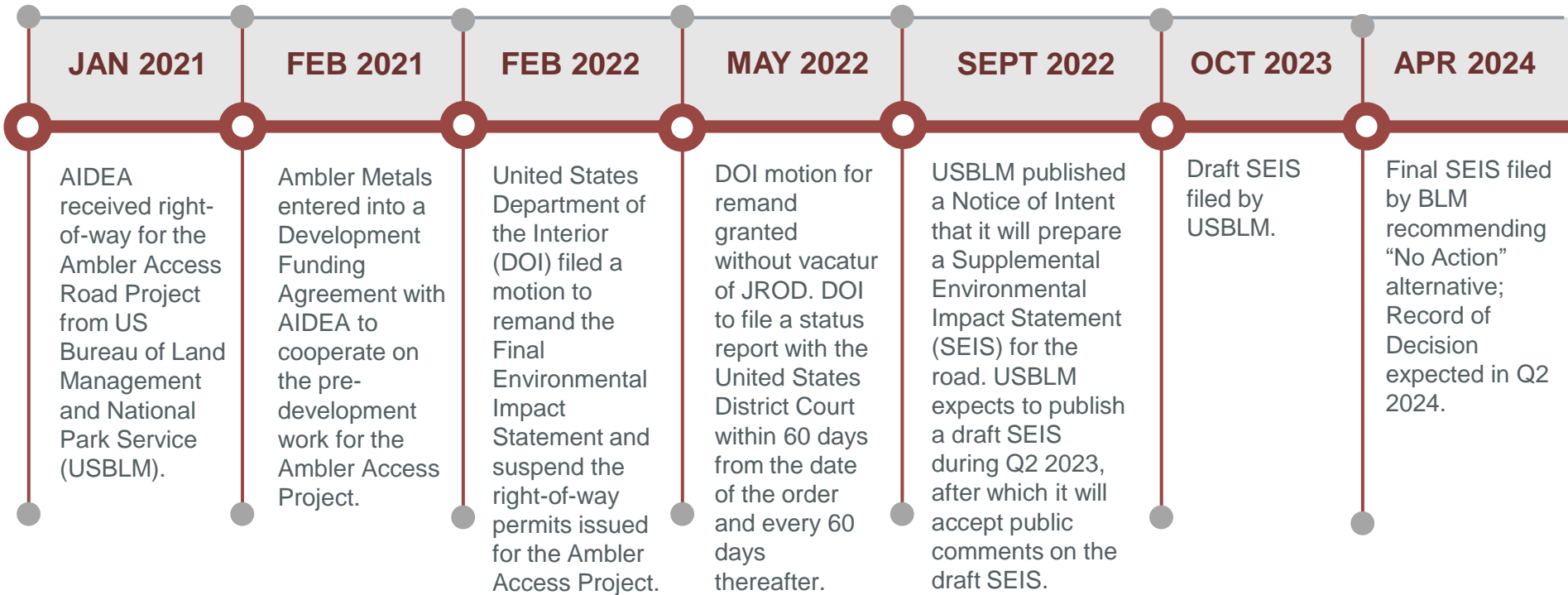
U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT - ALASKA



AMBLER MINING DISTRICT



AMBLER ACCESS ROAD PROJECT TIMELINE



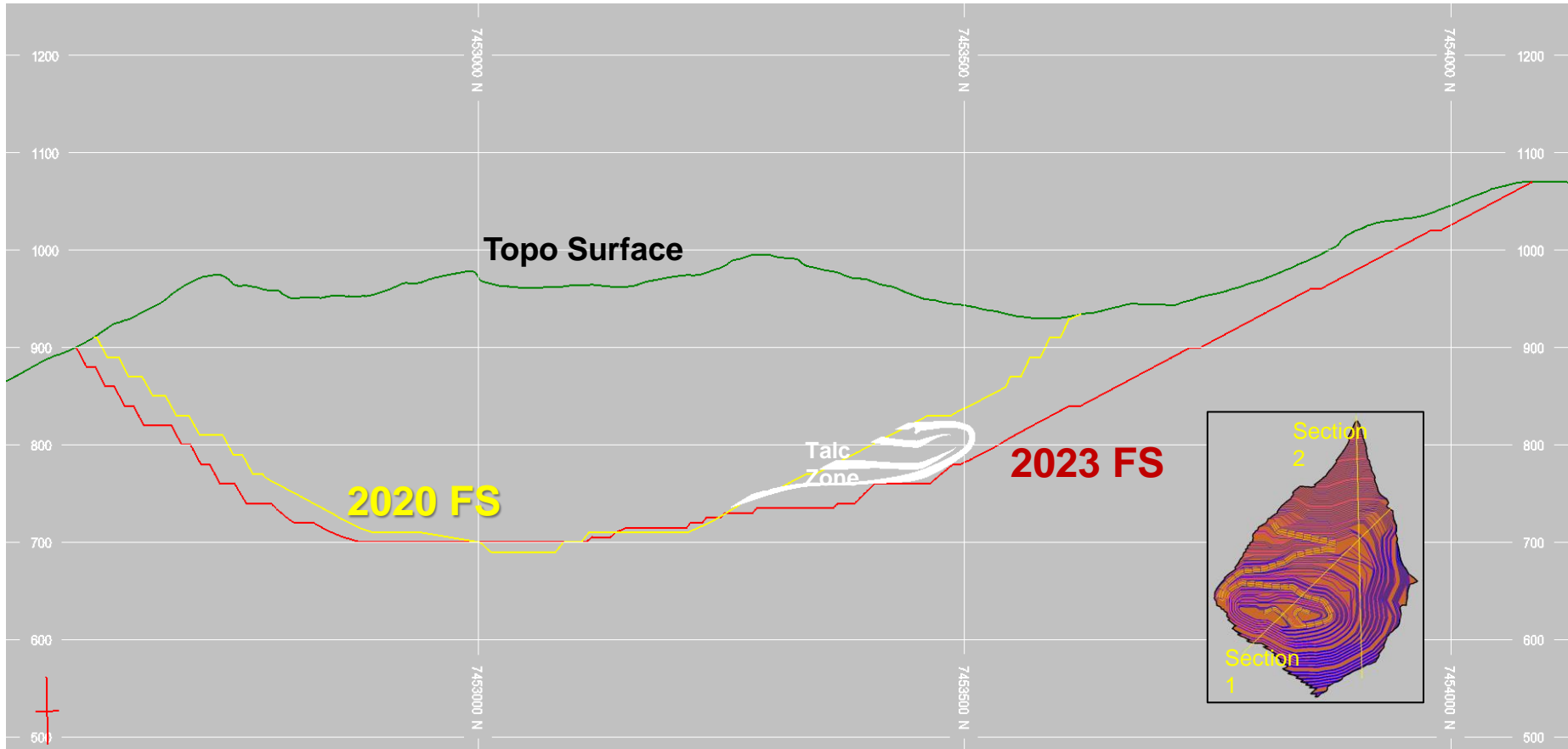
PORT OF ALASKA - ANCHORAGE

Concentrates Loaded Directly into Ship Hold

- Good for the **Environment**
- Saves **Money**
- Better **Green Solution**



MINE DESIGN UPDATE by WOOD ENGINEERING



See the Arctic Report (referenced on Slide 3) and the resource and reserve tables in Appendix for additional information, including details with respect to grade, quantity and metal or mineral content. See also Technical Information and Cautionary Statements on Slide 3.

MINERAL RESOURCE SUMMARY TABLE AS OF NOVEMBER 30, 2022 UNDER REGULATION S-K 1300

Project	Resource	Tonnage	Average Grade					Contained Metal Content				
			Cu	Pb	Zn	Au	Ag	Cu	Pb	Zn	Au	Ag
Alaska	Category	(Mt)	(%)	(%)	(%)	(g/t)	(g/t)	(Mlb)	(Mlb)	(Mlb)	(koz)	(Moz)
Arctic – 50% Attributable Interest	Inferred	2.25	1.92	0.70	2.93	0.43	35.6	94.5	34.5	144	31	2.5
Bornite – 50% Attributable Interest	Inferred	101.3	1.46					3,257				

Notes:

1. Mineral Resources are current as of November 30, 2022 and were verified by a Wood QP.
2. Mineral Resources were prepared in accordance with the standards and definitions of S-K 1300 and represent first-time disclosure of Mineral Resources under S-K 1300 standards and definitions.
3. The Mineral Resource estimate is reported exclusive of those Mineral Resources that were converted to Mineral Reserves.
4. Trilogy Metals' 50% attributable interest is stated in the table.
5. Figures may not sum due to rounding.
6. The mineral resources are reported in place (point of reference).

Arctic Notes:

1. Mineral Resources stated are contained within a conceptual pit shell developed using metal prices of \$3.00/lb Cu, \$0.90/lb Pb, \$1.00/lb Zn, \$1,300/oz Au and \$18/oz Ag and metallurgical recoveries of 92% Cu, 77% Pb, 88% Zn, 63% Au and 56% Ag and operating costs of \$3/t mining and \$35/t process and general and administrative costs. The assumed average pit slope angle is 43°.
2. As a result of flattening the north end of the reserve pit to stabilize the pit wall due to the presence of talc, a portion of the reserve pit extended beyond the resource constraining pit shell and a second pass of mineral resource tabulation was performed exterior to the constraining resource pit and interior to the constraining reserve pit which is included in the Mineral Resource tabulation.
3. The cut-off grade is 0.5% copper equivalent: $CuEq = (Cu\% \times 0.92) + (Zn\% \times 0.290) + (Pb\% \times 0.231) + (Au \text{ g/t} \times 0.398) + (Ag \text{ g/t} \times 0.005)$.

Bornite Notes:

1. Mineral resources are constrained by: an open pit shell at a cut-off grade of 0.5% Cu, with an average pit slope of 43 degrees; and underground mining shapes with a cut-off grade of 1.79% Cu. The cut-off grades include the considerations of a \$4.05/lb Cu price, process recovery of 87.2%, open pit mining costs of \$3.21/t mined, underground mining cost of \$73.62/t mined, process cost of \$19.14/t processed, G&A cost of \$4.14/t processed, treatment, refining, sales cost of \$0.73/lb Cu in concentrate, road use cost of \$8.04/t processed, 2% NSR royalty.

MINERAL RESERVE ESTIMATE AS OF NOVEMBER 30, 2022 FOR THE ARCTIC PROJECT, ALASKA USA UNDER REGULATION S-K 1300

Classification	Tonnage	Average Grade				
	Mt	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
Probable Mineral Reserves – 50% Attributable Interest	23.35	2.11	0.56	2.90	0.42	31.8

- Notes:
1. Mineral Reserves estimates are current as of November 30, 2022 and were prepared by a Wood QP.
 2. Mineral Reserves were estimated assuming open pit mining methods and include a combination of internal and contact dilution. Total dilution is expected to be between 30% and 40%. Pit slopes vary by sector and range from 26° to 56°. A marginal NSR cut-off of \$38.8 /t is used.
 3. Mineral Reserves are based on prices of \$3.46/lb Cu, \$0.91/lb Pb, \$1.12/lb Zn, \$1,615/oz Au, and \$21.17/oz Ag.
 4. Variable process recoveries averaging 92% Cu in Cu concentrate, 62% Pb in Pb concentrate, 88% Zn in Zn concentrate, 47% Au in Cu concentrate, 33% Ag in Cu concentrate, 26% Au in Pb concentrate and 49% Ag in Pb concentrate.
 5. Mineral Reserves are based on mining cost of \$2.52/t incremented at \$0.02/t/5m and \$0.012/t/5m below and above 790 m elevation, respectively.
 6. Costs applied to processed material following: process operating cost of \$18.31/t, G&A of \$5.83/t, sustaining capital cost of \$2.37/t, closure cost of \$4.27/t, road toll cost of \$8.04/t.
 7. Strip ratio (waste:ore) is 7.3:1.
 8. Selling terms following: payables of 96.5% of Cu, 95% of Pb and 85% of Zn, treatment costs of \$80/t Cu concentrate, \$160/t Pb concentrate and \$215/t Zn concentrate; refining costs of \$0.08/lb Cu in Cu concentrate, and \$10/oz Au, \$1.25/oz Ag in Pb concentrate; and transport cost \$270.98/t concentrate.
 9. Fixed royalty percentage of 1% NSR.
 10. Trilogy Metals' 50% attributable interest is stated in the table.
 11. The point of reference for the Mineral Reserves is defined at the point where the ore is delivered to the processing plant.
 12. The metal prices and costs were fixed over the 13-year mine life.



TRUST | RESPECT | INTEGRITY

Corporate Office

Suite 1150 – 609 Granville Street
Vancouver, British Columbia, V7Y 1G5 Canada
Phone +1 (604) 638-8088

NYSE American, TSX: **TMQ**

www.trilogymetals.com

