Quantum Critical Metals Stakes Prophecy Germanium-Gallium-Zinc Project in Northern British Columbia

written by Raj Shah | March 20, 2025

Newly Staked Southern BC Zinc Project Also Secured

March 20, 2025 (Source) – **Quantum Critical Metals Corp. (TSX.V: LEAP) (OTCQB: ATOXF) (Frankfurt: 86A1) ("Quantum" or the "Company")** is pleased to announce staking of the Prophecy Germanium-Gallium-Zinc Project, a new, highly prospective critical metals property located in northern British Columbia. Additionally, the Company has staked a second zinc-focused property in southern British Columbia, further expanding its strategic critical metals portfolio.

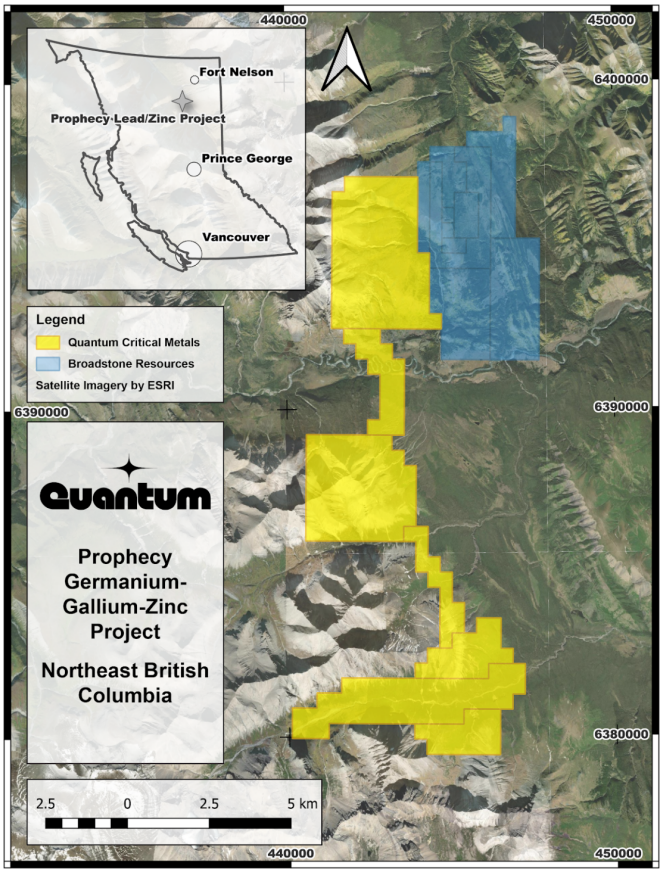
About the Prophecy Germanium-Gallium-Zinc Project

The 100% owned Prophecy Project spans 4,349 hectares and is located along the Robb Lake Belt, a mineralized trend extending over 150 kilometers. The project sits adjacent to the Prophet River Project, which has been recognized for its high-grade germanium and gallium values—metals critical for advanced semiconductor, quantum computing, and defense applications.

The project is hosted within the Dunedin and Stone Formations, which are known to contain Mississippi Valley-Type (MVT) lead-zinc deposits. These deposits form when metal-rich brines move through carbonate rocks, precipitating ore minerals in fractures and brecciated zones. Notably, the Robb Lake Belt hosts numerous MVT-style deposits, including the historic Robb Lake Deposit

with a reported resource of 6.5 million tonnes at 7.11% combined lead and zinc.

On December 20, 2024, Rapid Lithium (ASX: RLL) confirmed its intention to acquire the adjacent Prophet River Project, highlighting its significance as a high-grade germanium prospect. Historical metallurgical studies from trench samples in the region reported concentrates grading up to 22.69% zinc, 40 g/t gallium, and 1,500 g/t germanium. None of the historical information in the release has yet been verified by the Company and should not be relied upon.



Click Image To View Full Size *Figure 1 – Prophecy project and area claim map*

Why This Project Matters:

- Highly Prospective Geology: The same mineralized formations that host the Prophet River deposit extend directly into the newly staked Prophecy Project, presenting a significant exploration opportunity.

- Historic Work by Major Miners: Portions of the property were previously explored by Noranda and Cominco, with drill core logs confirming lead-zinc mineralization but lacking modern assays for gallium and germanium.

- Unexplored Potential: Nine recorded MINFILE showings indicate the presence of lead-zinc mineralization, with reported sphalerite and galena in drill core, yet no systematic assay program for critical metals has been conducted.

Southern British Columbia Zenith Zinc Project

Alongside the Prophecy acquisition, Quantum Critical has also staked an additional 829.9-hectare zinc property in southern British Columbia, now named the Zenith Zinc Project. This project hosts Mississippi Valley-Type (MVT) mineralization within the Devonian Palliser Formation, where historic chip samples reported grades of 2% zinc over 2.1 meters, and grab samples returned up to 10% zinc. The most significant known mineralized pod on the property, the Boivin Zinc Showing, measures 12m x 2m and has recorded grades as high as 20% zinc. None of the historical information in the release has yet been verified by the Company and should not be relied upon.

Marcy Kiesman, CEO of Quantum Critical Metals, commented:

“Staking the Prophecy Project reveals another step in our strategy to establish a premier portfolio of critical metals assets. Germanium and gallium are essential for future technologies, including telecommunications, and defense, yet global supply chains remain heavily dependent on China. This

project, along with our continued expansion into zinc-rich properties like Zenith, strengthens our position in securing a domestic source for these high-value metals."

Next Steps

Quantum Critical Metals will advance systematic exploration including geochemical sampling and assaying for gallium, germanium, and zinc across both new projects. Additional geophysical surveys and structural analysis will also be undertaken to refine priority drill targets.

About Germanium

Germanium is a critical metal essential for fiber optics, infrared optics, solar panels, and advanced semiconductor applications. It plays a key role in quantum computing, military-grade night vision systems, and satellite communications due to its superior optical and electronic properties. The global germanium supply is heavily concentrated in China, which accounts for over 60% of production and has recently imposed export restrictions, increasing concerns over supply security. With growing demand from the defense, renewable energy, and high-tech industries, securing new sources of germanium outside of China has become a strategic priority for Western allies.

Sources:

- China's Export Restrictions on Germanium and Gallium – Resilinc
- Mineral Demands for Resilient Semiconductor Supply Chains – CSIS

About Gallium

Gallium is a high-value strategic metal primarily used in semiconductors, LED lighting, and high-frequency radio communication systems. It is a key component in gallium arsenide (GaAs) and gallium nitride (GaN) semiconductors, which are essential for 5G networks, aerospace technologies, and quantum computing. The global gallium market is dominated by China, which recently restricted exports, further highlighting the urgency for the West to develop independent supply chains.

Sources:

- China's Export Restrictions on Germanium and Gallium – Resilinc
- Growing Supply Chain Risks for Germanium and Gallium – Techcet

About Zinc

Zinc is a critical industrial metal essential for galvanizing steel, battery storage, and alloy production. It is widely used in infrastructure, renewable energy, and electric vehicle manufacturing. In addition to its traditional uses, zinc is gaining attention in grid-scale energy storage solutions, where zinc-air and zinc-ion batteries are being developed as sustainable alternatives to lithium-based systems. While major zinc producers include China, Australia, and Peru, declining ore grades and increasing global demand have placed pressure on supply chains, reinforcing the need for new domestic sources of high-grade zinc deposits.

Sources:

- Zinc and Its Role in Energy Storage Solutions – International Zinc Association
- Zinc Market Trends and Supply Chain Challenges

– Mining.com

About Critical Metals

Critical metals are essential components in modern technologies, including renewable energy systems, defense applications, and advanced electronics. Both the United States and Canada have identified specific lists of critical minerals vital to their economic and national security. The U.S. Geological Survey's 2022 list includes 50 critical minerals, while Canada in 2024 has designated 34 minerals as critical.

Recent geopolitical developments have heightened concerns over the supply chain security of these critical metals. China, which holds a dominant position in the production and processing of several critical minerals, has implemented export bans affecting the West. These actions underscore the strategic importance of diversifying supply chains and developing domestic sources for critical metals to mitigate geo-political risks and ensure the stability of essential industries.

About Quantum Critical Metals Corp.

Quantum Critical Metals Corp. (TSX.V: LEAP) (OTCQB: ATOXF) (FRANKFURT: 86A1) is a Canadian mineral exploration company focused on advancing critical metals projects that power next-generation technologies. With a growing portfolio of promising assets—including the NMX East Gallium-Rubidium-Cesium Project in Québec, the Victory Antimony Project in British Columbia, and the newly acquired Prophecy Germanium-Gallium-Zinc Project in British Columbia, among others, the Company is strategically positioned to support the West's transition to a secure and sustainable critical metals supply.

Melanie Mackay, PGeo, EGBC (Engineers and Geoscientists British Columbia) 35256, APEGA (Association of Professional Engineers

and Geoscientists of Alberta 305012), is a director and qualified person for Quantum and approves the technical content of this news release.

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