Tongling Nonferrous Metals Group Holdings Co. Ltd. Exercises Share Purchase Warrants

Vancouver, British Columbia, Canada – Monday, May 10, 2010 – Canada Zinc Metals Corp. (TSX Venture Exchange: CZX) is pleased to announce that Tongling Nonferrous Metals Group Holdings Co. Ltd. (“Tongling”) has exercised 5.75 million share purchase warrants to acquire 5.75 million common shares at a price of $0.60 per share, for proceeds to the Company of $3,450,000.

“The Cardiac Creek deposit is one of the most significant discoveries in Canada in the past several years,” commented Mr. Peeyush Varshney, CEO of Canada Zinc Metals. “We are pleased to see Tongling increase its stake in the Company.”

With the exercise of the warrants, Tongling now holds a 17.65% equity position in the Company.

The proceeds of the private placement will be used to fund further exploration and advancement of the Company’s Akie property and for working capital purposes.

Tongling Nonferrous Metals Group Holdings Co. Ltd., based in Tongling, Anhui, is a state-owned holding company, and one of China's largest copper smelting companies. Tongling’s principal activities are exploration, mining, ore processing, smelting & refining and products processing of copper, lead, zinc, gold, silver and other non-ferrous and rare metals.

About Canada Zinc Metals Corp.

Canada Zinc Metals is a mineral exploration company focused on unlocking the potential of a future long life mining district in British Columbia, Canada. The Company is the dominant land holder in a world class mineral belt called the Kechika Trough which hosts in excess of 80 million tonnes of base metal resources. Canada Zinc Metals owns a total of 78,526 hectares in 233 claims which extend northwestward from the Akie property for a distance of 125 km.

About the Akie Property

The Akie zinc-lead property is situated within the southern-most part (Kechika Trough) of the regionally extensive Paleozoic Selwyn Basin, one of the most prolific sedimentary basins in the world for the occurrence of SEDEX zinc-lead-silver and stratiform barite deposits.
Drilling on the Akie property by Inmet Mining Corporation during the period 1994 to 1996 and by Canada Zinc Metals since 2005 has identified a significant body of baritic-zinc-lead SEDEX mineralization (Cardiac Creek deposit). The deposit is hosted by variably siliceous, fine grained clastic rocks of the Middle to Late Devonian 'Gunsteel' formation. The Company has filed a NI 43-101 report supporting the estimated inferred resource of 23.6 million tonnes grading 7.6% Zn, 1.5% Pb and 13.0 g/t Ag (at a 5% Zn cut off grade). The complete NI 43-101 technical report, titled “Geology, Diamond Drilling and Preliminary Resource Estimation, Akie Zinc-Lead-Silver Property, Northeast British Columbia, Canada” and dated May 30, 2008, can be viewed on SEDAR.

Two similar deposits, Cirque and South Cirque, located some 20 km northwest of Akie and owned under a joint venture by Teck Cominco and Korea Zinc, are also hosted by Gunsteel rocks and have a combined geologic inventory in excess of 50 million tonnes.

*The TSX Venture Exchange has neither approved nor disapproved the contents of this press release.*

ON BEHALF OF THE BOARD OF DIRECTORS

CANADA ZINC METALS CORP.

“PEEYUSH VARSHNEY”

__________________________

PEEYUSH VARSHNEY, LL.B

CEO & CHAIRMAN