Nova Minerals Highlights Strategic Alignment with U.S. Defense Supply Chain Priorities Under White House Executive Order

Nova Minerals Corp (“Nova Minerals” or the “Company”) (NYSE American: NVA | ASX: NVA) a first mover currently developing a modern, fully integrated and secure U.S. domestic antimony supply chain spanning mining through to refining in Alaska, welcomes the Executive Order, ‘Securing America's Defense Supply Chains and Ensuring Domestic Acquisition of Critical Materials’ (Executive Order), signed by U.S. President Donald J. Trump on July 20, 2026. The Company believes the Executive Order represents a significant policy milestone supporting the development of U.S. domestic critical minerals capacity and highlights the strategic relevance of its integrated antimony project.

The United States remains heavily reliant on imports for many critical minerals, including antimony, which is essential to the nation's economic resilience and defence capabilities. The Executive Order reinforces the U.S. Government's commitment to resilient domestic and allied critical mineral supply chains for defence by establishing a policy that military equipment and the critical materials required to manufacture, maintain and sustain it should be sourced from the United States or trusted allied nations. The Executive Order also mandates end-to-end supply chain traceability, including verification of raw material origin and assessment of foreign ownership and supply risks, while restricting materials sourced from entities linked to designated foreign adversaries. These measures will require defense contractors to rapidly qualify alternative U.S. domestic and allied suppliers, increasing demand for secure, compliant sources of critical minerals.

A Fully Secure Integrated U.S. Antimony Supply Chain

Nova Minerals is already building the kind of secure fully integrated U.S. domestic critical minerals supply chain the Executive Order is designed to encourage, with first antimony production from its pilot plant targeted for 2027. In October 2025, the Company was awarded a US$43.4 million Defense Production Act Title III award by the U.S. Department of War to support the development of an antimony mine at its Estelle Gold and Critical Minerals Project, and a downstream refinery at Port MacKenzie, both located in Alaska. Engineering and design for the Port MacKenzie pilot plant facility have been completed, with the scalable processing hub designed to treat concentrate from Estelle as well as potential third-party domestic and allied feedstocks. Process plant equipment procurement is underway, with key components delivered or in transit and construction expected to commence in the coming months. Upon completion, Port MacKenzie is expected to provide a strategic U.S. processing and toll-treatment capability, providing defense contractors with access to compliant military-grade

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antimony products and supporting a more secure and resilient U.S. domestic and allied supply chain.

To view a 3D rendering video of the proposed Port MacKenzie antimony pilot plant click here.

Nova Minerals CEO, Mr. Christopher Gerteisen, commented:

“This Executive Order reflects the direction of U.S. policy on critical minerals sourcing that has informed our work at the Estelle Gold and Critical Minerals Project and our planned processing infrastructure at Port MacKenzie. It aligns directly with our vision to develop responsible, world-class mining and refining operations that contribute to U.S. resource security and national defense priorities. With the support of the U.S. Department of War, we remain focused on delivering a U.S. domestic antimony supply chain, targeting production in 2027.”

Estelle Gold and Critical Minerals Project Discussion and Analysis

Further discussion and analysis of the Estelle Gold and Critical Minerals Project is available through the interactive Vrify 3D animations, presentations and videos, all available on the Company’s website. www.novamineralscorp.com

This announcement has been authorized for release by the Executive Directors.

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About Nova Minerals Corp

Nova Minerals Corp is advancing one of the world’s largest undeveloped gold deposits into production and securing a U.S. domestic supply of the critical mineral antimony. The Company is focused on the exploration and development of the Estelle Gold and Critical Minerals Project, located in Alaska, a tier-one mining jurisdiction.

Estelle hosts two defined multi-million-ounce gold resources, and more than 20 prospects distributed along a 35-kilometre mineralised trend, in the prolific Tintina Gold Belt, a province which hosts a >220 million ounce (Moz) documented gold endowment and some of the world's largest gold mines and discoveries including, Kinross Gold Corporation's Fort Knox Gold Mine. In parallel, Nova is advancing its critical minerals strategy, fully funded by a US$43.4 million U.S. Department of War award to develop a domestic antimony supply chain, targeted for production in 2027.

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Cautionary Note Regarding Forward-Looking Statements

This news release contains "forward-looking information" within the meaning of applicable securities laws. Generally, any statements that are not historical facts may contain forward-looking information, and forward looking information can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget" "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or indicates that certain actions, events or results "may", "could", "would", "might" or "will be" taken, "occur" or "be achieved." Forward-looking information is based on certain factors and assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued exploration activities, Gold and other metal prices, the estimation of initial and sustaining capital requirements, the estimation of labor costs, the estimation of mineral reserves and resources, assumptions with respect to currency fluctuations, the timing and amount of future exploration and development expenditures, receipt of required regulatory approvals, the availability of necessary financing for the Project, permitting and such other assumptions and factors as set out herein. apparent inconsistencies in the figures shown in the MRE are due to rounding Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: risks related to changes in Gold prices; sources and cost of power and water for the Project; the estimation of initial capital requirements; the lack of historical operations; the estimation of labor costs; general global markets and economic conditions; risks associated with exploration of mineral deposits; the estimation of initial targeted mineral resource tonnage and grade for the Project; risks associated with uninsurable risks arising during the course of exploration; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support exploration activities; risks associated with changes in the mining regulatory regime governing the Company and the Project; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; financing, capitalization and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at the Project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issuance of additional common shares of the Company; the risk of litigation.

Although the Company has attempted to identify important factors that cause results not to be as anticipated, estimated or intended, there can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. Forward looking information is made as of the date of this announcement and the Company does not undertake to update or revise any forward-looking information which is included herein, except in accordance with applicable securities laws. All drilling and exploration activities is subject to no unforeseen circumstances.