

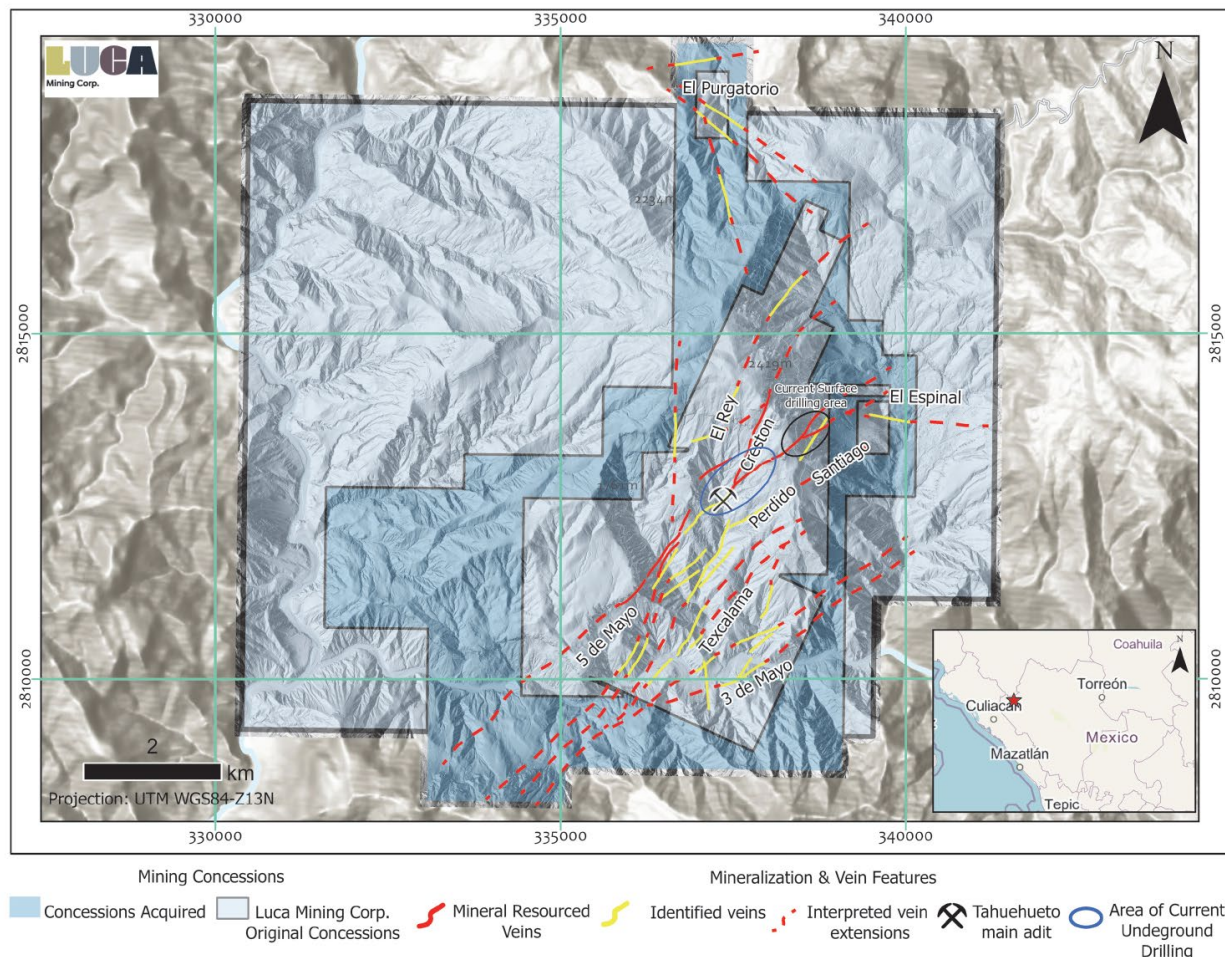
NEWS RELEASE

LUCA ACQUIRES KEY MINING CONCESSION ADJACENT TO TAHUEHUETO MINE

Vancouver, B.C., August 28, 2025: Luca Mining Corp. (“Luca” or the “Company”) (TSX-V: LUCA; OTCQX: LUCMF; Frankfurt: Z68) is pleased to announce that it has executed a purchase agreement and closed a transaction with Minera Mexicana La Ciénega S.A. de C.V., a subsidiary of Fresnillo plc (“Fresnillo”), to acquire a 100% interest in a large mining concession adjacent to the Company’s Tahuehueto Mine in Durango, Mexico.

As consideration for a 100% interest in the Humaya 3 mining concession, which covers 2,507 hectares and directly surrounds the Tahuehueto Mine, Luca has paid Fresnillo a cash purchase price of US\$400,000. The acquired concession is not subject to any underlying NSR royalties. With this acquisition, Luca expands its land position at Tahuehueto by more than 25%, reaching approximately 10,000 hectares.

Figure 1: Tahuehueto Surface Map Showing Acquired Ground (Blue) and Known and Interpreted Veining



Dan Barnholden, Luca’s CEO, commented: “Acquiring this strategic mining concession, which directly surrounds our Tahuehueto Mine, aligns with our growth strategy as we add value to our assets. Luca will continue to demonstrate our ability to increase shareholder value through our commitment to

exploration and discovery programs. This ground will play a key role in our near-term exploration strategy at Tahuehueto as we expand our exploration efforts.”

Paul D. Gray, VP of Exploration, added: "The Humaya 3 mining concession surrounds the Tahuehueto Mine and with this acquisition we have significantly increased both the size and exploration potential of our mineral tenure at Tahuehueto. Known veins hosting our current mineral resources are interpreted geologically to extend along strike both to the northeast and the southwest onto this newly acquired concession. In particular, the Santiago vein, which hosts Mineral Resources and Reserves at the mine and is the focus of our current surface drilling program, extends to the northeast directly onto this ground and represents a high-priority drill target.”

Qualified Person

The technical information contained in this news release has been reviewed and approved by Mr. Paul D. Gray, P.Geo., Vice-President Exploration at Luca Mining. Mr. Gray is a Qualified Person for the Company as defined by National Instrument 43-101.

About Luca Mining Corp.

Luca Mining Corp. (TSX-V: LUCA, OTCQX: LUCMF, Frankfurt: Z68) is a Canadian mining company with two wholly owned mines located in the prolific Sierra Madre mineralized belt in Mexico. These mines produce gold, copper, zinc, silver, and lead and generate strong cash flow. Both mines have considerable development and resource upside as well as world-class exploration potential.

The Company’s Campo Morado Mine hosts VMS-style, polymetallic mineralization within a large land package comprising 121 square kilometres. It is an underground operation, producing zinc, copper, gold, silver and lead. The mine is located in Guerrero State.

The Tahuehueto Mine is a large property covering 100 square kilometres in Durango State. The project hosts epithermal gold and silver vein-style mineralization. Tahuehueto is a newly constructed underground mining operation producing primarily gold and silver. The Company has successfully commissioned its mill and is now in commercial production.

On Behalf of the Board of Directors

(signed) “Dan Barnholden”

Dan Barnholden, Chief Executive Officer

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Cautionary Note Regarding Forward-Looking Statements

Statements contained in this news release that are not historical facts are “forward-looking information” or “forward-looking statements” (collectively, “Forward-Looking Information”) within the meaning of applicable Canadian securities laws. Forward Looking Information includes, but is not limited to, estimated production guidelines for 2025 and other possible events, conditions or performance that are based on assumptions about the proposed exploration program and its anticipated results; the timing and costs of future activities on the Company’s properties, such as production rates and increases and sustaining capital expenditures; success of exploration, development, and metres to be drilled in exploration on the Tahuehueto Mine site and the Campo Morado Mine site. In certain cases, Forward-Looking Information can be identified using words and phrases such as “plans,” “expects”, “scheduled”, “estimates”, “forecasts”, “intends”, “anticipates” or variations of such words and phrases. In preparing the Forward-Looking Information in this news release, the Company has applied several material assumptions, including, but not limited to, that the Company will be able to raise additional capital as necessary; the current exploration, development, environmental and other objectives concerning the Tahuehueto Mine can be achieved; that consistent and sustainable mill feed at Campo Morado Mine will be achieved; the continuity of the price of gold and other metals and economic and political conditions. Forward-Looking Information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance, or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the Forward-Looking Information. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. Except as required by law, the Company does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this news release to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

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