

STANDARD LITHIUM DEMONSTRATES SUCCESSFUL USE OF SOUTH WEST ARKANSAS LITHIUM CARBONATE IN NORTH AMERICAN LFP BATTERY CELLS

- Lithium carbonate produced from the South West Arkansas Project pilot plant successfully used by Nano One® to manufacture lithium iron phosphate (“LFP”) cathode active material (“CAM”) and battery cells in North America
- Testing provides further validation of SWA Project’s process flowsheet and the suitability of its battery-quality lithium carbonate in downstream applications
- Advances Standard Lithium’s commitment to technological innovation and support for development of a domestic, fully-integrated energy storage supply chain

August 13, 2026 – Vancouver, British Columbia – Standard Lithium Ltd. (“Standard Lithium” or the “Company”) (TSXV: SLI) (NYSE.A: SLI), a leading near-commercial lithium company, is pleased to announce the successful downstream battery testing of lithium carbonate produced from its South West Arkansas project (the “SWA Project”).

Standard Lithium provided approximately one kilogram of battery-quality lithium carbonate produced using the SWA Project’s brine and process flowsheet (see press release dated [11 March 2025](#)) to Nano One® Materials Corp. (“Nano One”). Nano One successfully used that material in its patented One-Pot™ process to produce LFP CAM, followed by battery coin cells for testing.

The resulting material demonstrated desired chemical and physical properties, achieved the intended particle morphology and delivered approximately 155 mAh/g on first discharge in initial electrochemical testing.

Dr. Andy Robinson, President and Chief Operating Officer of Standard Lithium, commented: *“We have spent years testing and developing an integrated process flowsheet designed to produce a high-quality lithium product to meet the stringent needs of the battery industry. Our recent work alongside Nano One provides some exciting additional real-world validation of the work we have done.”*

“We also understand that building a secure domestic battery and energy storage supply chain requires more than just lithium production in the United States. There remains a significant gap between domestic demand needs and the planned production of critical battery raw materials and components, like CAM, to support it. Standard Lithium is well positioned to be a champion in the development of a complete supply chain, including by working with innovative companies such as Nano One that can help provide a solution for the missing midstream in the U.S.”

The test work completed is part of Standard Lithium’s broader efforts to support technology development opportunities and to engage with novel companies across the value chain. These collaborations enhance the Company’s understanding of evolving customer requirements and support the development of a more resilient and competitive domestic battery industry.

About Standard Lithium Ltd.

Standard Lithium is a leading near-commercial lithium development company focused on the sustainable development of a portfolio of large, high-grade lithium-brine properties in the United States. The Company prioritizes projects characterized by high-grade resources, robust infrastructure, skilled labor, and streamlined permitting. Standard Lithium aims to achieve sustainable, commercial-scale lithium production via the application of a scalable and fully integrated direct lithium extraction and purification process. The Company’s flagship projects are in the Smackover Formation, an attractive lithium brine asset, focused in Arkansas and Texas. In partnership with global energy leader Equinor, Standard Lithium is advancing the SWA Project, a greenfield project located in southern Arkansas, and actively advancing a promising lithium brine resource position in East Texas, including the highest known lithium brine grade project in North America, the Franklin project.

Standard Lithium trades on both the TSX Venture Exchange (“TSXV”) and the NYSE American under the symbol “SLI”. Visit the Company’s website at www.standardlithium.com for more information.

About Nano One® Materials Corp.

Nano One® Materials Corp. (TSX: NANO) (OTCQB: NNOMF) is a process technology company changing how cathode active materials (CAMs) are produced for lithium-ion batteries. Nano One’s platform is built on a portfolio of patented processes, decades of manufacturing know-how and modular plant designs that enable scalable, cost-competitive and easier-to-permit CAM

production with resilient supply chains. The technology eliminates wastewater and byproducts while enabling regionally sourced raw materials and reducing exposure to foreign supply chain volatility. Modular plants are designed with fewer steps to reduce capex, energy and environmental intensity and to accelerate deployment, manufacturing and licensing. Product development and process optimization are based at Nano One's Innovation Centre in Burnaby, British Columbia while piloting, demonstration and commercial production are based in Candiac, Québec, supported by a team with more than 15 years of commercial cathode manufacturing experience supplying global cell manufacturers. Strategic collaborations with global partners including Sumitomo Metal Mining, Rio Tinto and Worley support Nano One's Design-One-Build-Many growth strategy. Nano One has received funding support from the Governments of Canada, the United States, Québec and British Columbia.

For more information, please visit nanoOne.ca.

Investor Inquiries

Daniel Rosen

+1 604 409 8154

investors@standardlithium.com

Media Inquiries

media@standardlithium.com

X: @standardlithium

LinkedIn: <https://www.linkedin.com/company/standard-lithium/>

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