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E3 Lithium Begins Site Construction for Phase 2 of the Clearwater Demonstration Facility

CALGARY, ALBERTA, October 21, 2025 – E3 LITHIUM LTD. (TSXV: ETL) (FSE: OW3) (OTCQX: EEMMF), “E3”, “E3 Lithium” or the “Company,” a leader in Canadian lithium has commenced construction on its Phase 2 demonstration facility site, located east of the town of Olds, Alberta in E3 Lithium’s Clearwater Project Area. Since receiving approval of its required permits from the Alberta Energy Regulator, announced on September 11, 2025, the Company has been advancing preparation activities and is actively grading the site to be ready for the planned drilling program as part of Phase 2 of the Demonstration Facility.

Pad construction work will include road access improvements, pad construction, and environmental and safety preparations in advance of mobilizing the drilling rig to site. As is standard for drilling and operations activities in Alberta, and as part of E3’s commitment to environmental best practices, the topsoil and sub soil are stripped from the site and stored on either side (see photos below). Once the planned operations on this site are complete, the site will be reclaimed. Disturbed soil will be put back into place and the land returned to its original use.

E3 Lithium expects the drilling rig to be mobilized to the site in the upcoming weeks. The wells to be drilled are a key component of Phase 2 of the Demonstration Facility as the data captured during testing will confirm Leduc Reservoir flow rates and reservoir characteristics. Production data will be used to further inform the well scheme and the gathering and gas handling system for E3 Lithium’s planned commercial facility.

“Commencing drill site preparation is an important step towards advancing Phase 2 of the Demonstration Facility,” said Chris Doornbos, President and CEO of E3 Lithium. “Our team is focused on executing this program safely, efficiently with a strong commitment to environmental stewardship. We look forward to providing further updates as drilling operations begin.”

E3 Lithium continues to engage closely with local stakeholders, landowners, and regulatory authorities to ensure operations are carried out responsibly and in alignment with industry best practices.

Aerial view of Demonstration Facility Phase 2 Site

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About E3 Lithium

E3 Lithium is a development company with a total of 21.2 million tonnes of lithium carbonate equivalent (LCE) Measured and Indicated[1] as well as 0.3 Mt LCE Inferred mineral resources[2] in Alberta and 2.5 Mt LCE Inferred mineral resources[3] in Saskatchewan. The Clearwater Pre-Feasibility Study outlined a 1.13 Mt LCE proven and probable mineral reserve with a pre-tax NPV(8%) of USD 5.2 Billion with a 29.2% IRR and an after-tax NPV(8%) of USD 3.7 Billion with a 24.6% IRR[1].

1: *The Clearwater Project NI 43-101 Pre-Feasibility Study, effective June 20, 2024, is available on the E3 Lithium's website (www.e3lithium.ca/technical-reports/) and SEDAR+ (www.sedarplus.ca).*

2: *The mineral resource NI 43-101 Technical Report for the Garrington District Lithium Resource Estimate, effective June 25, 2025, identified 5.0 Mt LCE (measured and indicated) and 0.3 Mt LCE (inferred) and will be available on the E3 Lithium's website (www.e3lithium.ca/technical-reports/) and SEDAR+ (www.sedarplus.ca) within 45 days of this news release.*

3: *The mineral resource NI 43-101 Technical Report for the Estevan Lithium District, effective May 23, 2024, identified 2.5 Mt LCE (inferred) and is available on the E3 Lithium's website (www.e3lithium.ca/technical-reports/) and SEDAR+ (www.sedarplus.ca).*

Unless otherwise indicated, Kevin Carroll, P. Eng., Chief Development Officer and a Qualified Person under National Instrument 43-101, has reviewed and is responsible for the technical information contained on this news release.

Forward-Looking and Cautionary Statements

This news release includes certain forward-looking statements as well as management's objectives, strategies, beliefs and intentions or forward-looking information within the meaning of applicable securities laws. Forward-looking statements are frequently identified by such words as "believe", "may", "will", "plan", "expect", "anticipate", "estimate", "intend", "project", "potential", "possible" and similar words referring to

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future events and results. Forward-looking statements are based on the current opinions, expectations, estimates and assumptions of management in light of its experience, perception of historical trends, and results of the PFS, but such statements are not guarantees of future performance. In particular, this news release contains forward-looking information relating to: the expected timelines for the assembly, testing and commissioning of the demonstration equipment; production, pretreatment, purification, volume reduction and conversion process and features and the expected outcomes thereof; the Company's expectations regarding the drilling of a production and injection well; the Company's expectations regarding the production of lithium carbonate; plans and objectives of management for the Company's operations of the Demonstration Facility; and the inherent hazards associated with mineral exploration and mining operations. In preparing the forward-looking information in this news release, the Company has applied several material assumptions, including, but not limited to, that any additional financing needed will be available on reasonable terms; the exchange rates for the U.S. and Canadian currencies will be consistent with the Company's expectations; that the current exploration, development, environmental and other objectives concerning the Demonstration Facility can be achieved and that its other corporate activities will proceed as expected; that general business and economic conditions will not change in a materially adverse manner and that all necessary governmental approvals for the planned activities on the Demonstration Facility will be obtained in a timely manner and on acceptable terms.

All forward-looking information (including future-orientated financial information) is inherently uncertain and subject to a variety of assumptions, risks and uncertainties, including the speculative nature of mineral exploration and development, fluctuating commodity prices, the effectiveness and feasibility of emerging lithium extraction technologies which have not yet been tested or proven on a commercial scale or on the Company's brine, risks related to the availability of financing on commercially reasonable terms and the expected use of proceeds; operations and contractual obligations; changes in estimated mineral reserves or mineral resources; future prices of lithium and other metals; availability of third party contractors; availability of equipment; failure of equipment to operate as anticipated; accidents, effects of weather and other natural phenomena and other risks associated with the mineral exploration industry; the Company's lack of operating revenues; currency fluctuations; risks related to dependence on key personnel; estimates used in financial statements proving to be incorrect; competitive risks and the availability of financing, as described in more detail in our recent securities filings available under the Company's profile on *SEDAR+ (www.sedarplus.ca)*. Actual events or results may differ materially from those projected in the forward-looking statements and we caution against placing undue reliance thereon. We assume no obligation to revise or update these forward-looking statements except as required by applicable law.