

Century Lithium Reports On Lithium Carbonate From Pilot Plant

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VANCOUVER, Sept. 3, 2024 - [Century Lithium Corp.](#) (TSXV: LCE) (OTCQX: CYDVF) (Frankfurt: C1Z) (Century Lithium Company) is pleased to report assay results of the first lithium carbonate made at the newly commissioned lithium carbonate stage in the Company's Lithium Extraction Facility (Pilot Plant) in Amargosa Valley, Nevada, USA (see August 6, 2024 release). The Pilot Plant is an integral part of the Company's 100%-owned Angel Island Project in Nevada. Assays received on five individual lots of lithium carbonate produced during the initial startup indicated purity of the lithium carbonate (Li_2CO_3) as high as 99.2%.

"For an initial run, these results are very encouraging," said President and CEO Bill Willoughby. "Lithium carbonate greater than 99.5% purity is typically considered battery grade. These results show we are close and have identified steps to improve. Also, importantly, where we previously shipped concentrated lithium solution to be treated offsite, we are now able to do so from the Pilot Plant and show we have an end-to-end process that works."

During the startup, five 40-liter lots of concentrated lithium solution were treated in the lithium carbonate stage, which included precipitation with sodium carbonate, washing and drying of the 4 kilograms of lithium carbonate produced from each lot. Input from Hargrove Engineers and Constructors, adjustments were made that resulted in decreased sodium and other impurities. Over the five lots treated, the purity of the final lithium carbonate increased in each test to a high of 99.2%. Calcium and magnesium were identified as the primary non-lithium constituents.

Lithium Carbonate Assay Results from Pilot Plant¹

Sample ID	Li_2CO_3 %	Total non-Li ppm	Sodium ppm	Calcium ppm	Magnesium ppm
Final #1	98.2	17,538	9,800	4,200	500
Final #2	98.4	16,362	6,200	4,700	560
Final #3	98.7	12,600	6,200	3,900	490
Final #4	99.1	8,531	1,600	5,500	750
Final #5	99.2	8,440	1,900	4,600	530

1. Analyses were conducted by two third-party laboratories selected by Hargrove using multi-element ICP on both solids and liquids. Lithium carbonate purity was determined by subtracting the sum of impurities from 100% of the sample.

Review of the lithium carbonate stage operation in the Pilot Plant following the treatment of the five test lots revealed an equipment defect that is believed responsible for the calcium and magnesium levels in the final lithium carbonate. The Company expects that these impurity levels will be reduced in further testing.

Century continues work at the Pilot Plant, focusing on design and engineering that will support reduced capital requirements for the overall process.

Qualified Person

Todd Fayram, MMSA-QP and Senior Vice President, Metallurgy of Century Lithium is the qualified person as defined by

National Instrument 43-101 and has approved the technical information in this release.

ABOUT CENTURY LITHIUM CORP.

Century Lithium Corp. is an advanced stage lithium company, focused on developing its 100%-owned Angel Island Mine in west-central Nevada, USA. Century Lithium recently completed a Feasibility Study and is currently in the permitting stage with the goal of becoming a domestic producer of lithium for the growing electric vehicle and battery storage market.

ON BEHALF OF CENTURY LITHIUM CORP.

WILLIAM WILLOUGHBY, PhD., PE
President & Chief Executive Officer

centurylithium.com

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Forward-looking statements relate to any matters that are not historical facts and statements of our beliefs, intentions and expectations about developments, results and events which will or may occur in the future, without limitation, statements of our expectations about the potential development and value of the Project and benefits associated therewith, statements with respect to the expected project economics for the Project, such as estimates of life of mine, lithium prices, production and recoveries, and operating costs, IRR, NPV and cash flows, any projections outlined in the Feasibility Study in respect of the Project and the permitting status of the Project and the Company's future development plans.

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