

One World Lithium Announces Engagement with Moleaer for Nanobubble Equipment Expands R&D Testing Towards DLCE Pilot Plant

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And Proposed Non-Brokered Private Placement

[One World Lithium Inc.](#) (CSE-OWLI) (the "Company" or "OWL") is pleased to announce that they have now engaged with Moleaer Inc. ("Moleaer") the global leader in nanobubble technology, and two strategic University, Research and Development Laboratories ("R&D") to accelerate testing of its patent-pending, proprietary, single-step Direct Lithium Carbonation Extraction ("DLCE") technology. This collaboration aims to finalize a containerized, shipping-container-sized pilot plant designed to produce lithium carbonate directly from natural brines, eliminating costly and environmentally intensive traditional concentration methods.

About Moleaer Inc.

Moleaer will work directly with OWL and the two R&D laboratories to advance the Company's DLCE technology through continued laboratory testing and engineering evaluation towards a pilot plant and commercialization.

Moleaer has deployed thousands of nanobubble solutions worldwide to improve process performance across water and wastewater treatment, agriculture, mineral recovery, and more. Its platform enables efficient and stable gas delivery in liquids, helping operators achieve more consistent and reliable outcomes. The Company has one of the largest dedicated R&D teams focused on studying nanobubbles, advancing the science and translating it into practical, field-proven applications. Moleaer routinely seeks partnerships with innovators across a broad spectrum of industries to integrate its proprietary nanobubble solutions into partner technologies to enhance traditional applications and systems.

Primary Project Goals - Advancing Toward Pilot-Scale Development

The first phase of the laboratory work is focused on continued validation and optimization of the DLCE process, which uses a nanobubble extraction process using carbon dioxide to separate lithium from brines with the objective of advancing toward the design and construction of a pilot plant for field testing. The pilot system is intended to demonstrate the potential for direct production of lithium carbonate from natural brines.

The second phase of the laboratory work is to complete test work on lithium clay samples to create an effective lithium slurry to validate the DLCE technology to produce a lithium carbonate from the slurry under a variety of conditions. This process would enable lithium carbonate generation directly from slurries made from clays, without requiring sulfuric acids, soda ash, sorbents, and multiple concentration steps.

Doug Fulcher, President and Chief Executive Officer of One World Lithium, states:

"This is a major step forward for the Company as we bring together key technical partners to advance DLCE from ongoing laboratory testing toward pilot-scale validation and potential commercialization. Working with a leader in nanobubble technology strengthens our ability to evaluate and optimize the process across a range of natural brines and clay-based feedstock, which we believe may be critical to further validating the technology."

Brad Hice, Senior Director - Market Development at Moleaer Inc., states:

"We believe this approach to lithium extraction from brines has the potential to significantly improve how lithium is produced. Moleaer is pleased to support the One World Lithium's efforts across technology development, process optimization, and potential commercialization pathways."

The proposed approach is designed to minimize or eliminate the use of sorbents, sulfuric acids, and soda ash, and fresh water with the goal of simplifying the overall flowsheet and potentially reducing both capital and operating costs compared to conventional lithium production methods.

Evaluation of By-Product Recovery

In parallel with lithium carbonate production, the Company is also evaluating the potential recovery or co-production of additional industrial carbonates from brine, including sodium, calcium, magnesium and potassium. These materials, if successfully recovered at scale, could represent incremental revenue streams and improve overall project economics.

Process Advantages Under Evaluation

The DLCE process is being developed as a simplified extraction pathway that does not require pre-concentration, base concentration, or post-concentration steps commonly associated with conventional evaporation pond operations and certain direct lithium extraction ("DLE") technologies.

Unlike traditional methods that typically produce lithium intermediates requiring additional downstream chemical processing to generate lithium carbonate, the Company's objective is to produce lithium carbonate directly in a single-step process.

Carbon Utilization and Environmental Considerations

DLCE approach targets a simplified, lower-impact extraction pathway that removes several steps common to evaporation ponds and many DLE processes. By integrating carbon dioxide in the separation chemistry and minimizing chemical inputs and concentration stages, OWL expects, subject to further testing, reduced environmental impacts, lower capital and operating costs, and potential carbon credit opportunities pending pilot validation.

Next Steps

Results from the ongoing laboratory program will be used to refine process parameters, support engineering design work, and advance the development of a containerized pilot plant for subsequent field testing.

Funding for the Test Work

The Company also announces a non-brokered private placement up to 20,000,000 units (each, a "Unit") of the Company at a price of \$0.04 per Unit, for gross proceeds of up to \$800,000 with (the "Offering"). All amounts are stated in Canadian dollars.

Each Unit will consist of one common share (each, a "Common Share") of the Company and one non-transferable Common Share purchase warrant (each, a "Warrant"). Each Warrant will entitle the holder thereof to purchase one additional Common Share (each, a "Warrant Share") at a price of \$0.08 per Warrant Share for a period of 36 months from the closing of the Offering.

There is no minimum number of Units or minimum aggregate proceeds required to close the Offering, and the Company may, subject to compliance with applicable securities laws, elect to close the Offering in one or more closings.

Management anticipates that the Company will allocate the net proceeds of the Offering for working capital purposes and for advancing its patent pending DLCE technology, including continued laboratory testing, engineering evaluation and related general and administrative expenditures. No portion of the proceeds will be used for investor relations or promotional activities.

Finder's fees may be payable in connection with the Offering in cash and/or securities, in each case in accordance with applicable securities laws and the policies of the Canadian Securities Exchange (the "CSE"). Closing of the Offering is subject to the receipt of all required corporate and regulatory approvals, including approval of the pricing of the Offering by the CSE.

All securities issued in connection with the Offering will be subject to a statutory hold period of four months plus one day from the date of issuance, in accordance with applicable securities laws.

The Offering may be completed in whole or in part pursuant to available prospectus exemptions, including Multilateral CSA Notice 45?313 - Prospectus Exemption for Distributions to Existing Security Holders ("CSA 45?313") and the corresponding blanket orders, rules or instruments implementing CSA 45?313 in the applicable jurisdictions (collectively, the "Existing Security Holder Exemption"). As at the date hereof, the Existing Security Holder Exemption is available in each of the provinces of Canada, with the exception of Newfoundland and Labrador.

Subject to applicable securities laws, the Company will permit each person or company who, as of September 6, 2023 (being the record date set by the Company pursuant to CSA 45?313), held Common Shares, to subscribe for Units pursuant to the Offering, provided that the Existing Security Holder Exemption is available in the jurisdiction in which such person or company resides. Qualifying security holders who wish to participate in the Offering should contact the Company at the contact information set forth below. In the event that aggregate subscriptions for Units under the Offering exceed the maximum number of Units available, Units will be allocated to subscribers on a pro rata basis, based on the number of Units subscribed for. Insiders of the Company may participate in the Offering.

In addition to the Existing Security Holder Exemption, a portion or all of the Offering may be completed pursuant to Multilateral CSA Notice 45?318 - Prospectus Exemption for Certain Distributions through an Investment Dealer ("CSA 45?318") and the corresponding blanket orders, rules or instruments implementing CSA 45?318 in the applicable jurisdictions (collectively, the "Investment Dealer Exemption"). As at the date hereof, the Investment Dealer Exemption is available in each of Alberta, British Columbia, Saskatchewan, Manitoba and New Brunswick. Pursuant to CSA 45?318, each subscriber relying on the Investment Dealer Exemption must obtain suitability advice in respect of the investment from a registered investment dealer.

There is no material fact or material change with respect to the Company that has not been generally disclosed.

In addition to the Existing Security Holder Exemption and the Investment Dealer Exemption, the Offering may also be completed pursuant to other available prospectus exemptions under applicable securities laws.

None of the securities issued in connection with the Offering will be registered under the United States Securities Act of 1933, as amended (the "1933 Act"), and none of them may be offered or sold in the United

States absent registration or an applicable exemption from the registration requirements of the 1933 Act. This news release does not constitute an offer to sell or a solicitation of an offer to buy any securities, nor shall there be any sale of the securities, in any jurisdiction in which such offer, solicitation or sale would be unlawful.

About One World Lithium

One World Lithium Inc. is developing proprietary lithium extraction technologies and pursuing strategic partnership to commercialize lower-impact, scalable lithium production from brines and clay slurries. For more information, visit: <https://oneworldlithium.com/>.

On behalf of the Board of Directors of One World Lithium Inc.,

"Doug Fulcher"

President and Chief Executive Officer

For further information please visit www.oneworldlithium.com or email info@oneworldlithium.com or call 604-564-2017 Ext 3.

Forward-Looking Information: This press release may include forward-looking information and forward-looking statements within the meaning of applicable Canadian securities legislation. Such forward-looking information includes, without limitation, statements relating to future plans, objectives, expectations, estimates and projections. Forward-looking information is based on certain material expectations and assumptions made by management of the Company, including, but not limited to: (I) the ability of OWL to further develop its DLCE technology, including its potential applicability to lithium extraction, (II) OWL's ability to advance toward potential commercialization of its lithium extraction technologies, (III) OWL's ability to close the Offering and, in connection therewith, receive the necessary corporate and regulatory approvals, as applicable, (IV) the anticipated use of proceeds of the Offering, and (V) the availability of certain prospectus exemptions to potential investors as described herein. Although OWL believes that the expectations and assumptions on which such forward-looking information is based are reasonable, there can be no assurance that such expectations or assumptions will prove to be correct, and undue reliance should not be placed on such forward-looking information. Forward-looking information is subject to a number of risks and uncertainties that could cause actual results and future events to differ materially from those anticipated in such forward-looking information. Such risks and uncertainties include, but are not limited to: (I) the inability of OWL to commercialize its DLCE technology, (II) OWL's inability to execute its business plan or raise additional financing as required, (III) risks and market fluctuations common to the mining industry and the lithium sector in particular, (IV) advancements in competing lithium extraction or direct lithium extraction technologies, and (V) the inability to obtain the requisite regulatory approvals for the Offering or to complete the Offering on the terms proposed. The reader is cautioned that assumptions used in the preparation of forward-looking information may prove to be incorrect, and that events or circumstances may cause actual results to differ materially from those predicted, as a result of numerous known and unknown risks, uncertainties and other factors, many of which are beyond the control of OWL. All forward-looking information contained in this press release is made as of the date hereof, and OWL does not undertake any obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, except as required by applicable securities laws. The reader is cautioned not to place undue reliance on forward-looking information contained in this press release.

Neither the Canadian Securities Exchange nor its Market Regulator (as that term is defined in the policies of the Canadian Securities Exchange) accepts responsibility for the adequacy or accuracy of this release

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