Lilac Solutions Achieves 99% Lithium Recovery With Ion Exchange Process

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VANCOUVER, April 13, 2021 - <u>Lithium South Development Corp.</u> (the "Company") (TSX-V: LIS) (OTCQB: LISMF) (Fra OGPQ) is pleased to provide an update on the continued evaluation of Direct Lithium Extraction (DLE) technology for it Muerto North Lithium Project, located in Salta Province, Argentina.

Lilac Solutions of Oakland California, a lithium extraction company providing technology and services to lithium brine do has advised the Company that they have completed their own testing using their patented Ion Exchange (IX) media on sample of the HMN Li Project brine, identical in chemical composition to that contained within the projects NI 43-101 Project Solution recovers the lithium with very low reagent consumption. The eluate composition showed high purity and low total dissolved solid eluate would be concentrated using reverse osmosis and mechanical evaporation to feed a conventional plant for the positive high purity and low total dissolved solid eluate would be concentrated. Both acid and base reagents used in the process can be produced on site using chlor-alkali system. Water consumption was 18 metric tonnes for each tonne of Lithium Carbonate Equivalent produced results and values reported were provided by Lilac Solutions and were not conducted in an ISO Certified Laboratory unsupervision of a Qualified Person, and the results presented have not been verified by a Qualified Person.

Conventional lithium extraction involves the construction of large evaporation ponds to concentrate the lithium containe brine. The costs of pond construction is significant, the environmental footprint is large, and the production lead time is approximately 18 months. These factors contribute to the challenges of applying the traditional evaporation process to increasing market demand. Prior Direct Lithium Extraction (DLE) technologies have also struggled due to high water ar consumption. Lilac's new lithium extraction process enables rapid and low cost extraction of lithium from brine with min and energy. The Company is evaluating both conventional evaporation and DLE to determine the optimal process method.

The next phase of test work will involve Lilac expanding test work with a natural brine sample sourced from the HMN presults will be analyzed under the supervision of a Qualified Person along with third party ISO Certified laboratory verification of the results on synthetic brine as well as an indication of expected costs for a commercial sc

About Lithium South

LIS is focused on developing the HMN Li Project, located on the Hombre Muerto Salar, the premier lithium-producing s Argentina. The property is adjacent to land under development by the Korean multinational corporation POSCO, which the ground from Galaxy Resources Ltd. for U.S. \$280 million. The Company completed a Preliminary Economic Assess HMN Li Project in 2019, utilizing conventional evaporation extraction. The Company is focused on evaluating alternative methods for the HMN Li Project and plans to become a leader in the application of Direct Lithium Extraction technology project level.

About Lilac Solutions

Lilac is a lithium extraction company located in Oakland, California. It provides lithium developers an alternative to convextraction methods utilizing its patented Ion Exchange IX media. Lilac was recently awarded Early Stage Company of t 2021 on the Global Cleantech 100 List, and was listed in the American Chemical Society's C&EN 2020 list of Startups to the Company of the Com

The technical and scientific information contained in this news release was reviewed by Mr. William Feyerabend, a Cor Geologist and Qualified Person under NI 43-101. Mr. Feyerabend participated in the production of this news release.

On behalf of the board of directors of Lithium South Development Corp.

Adrian F. C. Hobkirk

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