

# Rodinia Lithium Produces Battery Grade Lithium Carbonate of Over 99.45% Purity

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- **Battery Grade Lithium Carbonate Produced With Over 99.45% Purity**
- **Further Washing of Product at Increased Production Rates Expected to Increase Purity to 99.75%**
- **Process and Cost Structure to Produce Battery Grade Lithium Carbonate Remains Largely the Same as That Reported in the Company's Preliminary Economic Assessment**
- **Rodinia Continues to Work on A Revised Resource Estimate, on the Operation of the Pilot Cycle, and on Completing the Feasibility Study. All Major Drilling and Construction Work is Complete**

TORONTO, 10/16/12 - [Rodinia Lithium Inc.](#) (TSX VENTURE: RM) (OTCQX: RDNF) successfully produced lithium carbonate from the concentrated brine derived from the pilot ponds installed at its Diablillos property, located in Salta, Argentina. This first batch of lithium carbonate achieved a purity of 99.45% Li<sub>2</sub>CO<sub>3</sub>, and can be further washed employing the same methods to 99.75% Li<sub>2</sub>CO<sub>3</sub>. The process employed during the production of lithium carbonate is approximately the same as described in the Company's Preliminary Economic Assessment ("PEA") filed on SEDAR at [www.sedar.com](http://www.sedar.com).

William Randall, Rodinia's President & CEO, commented, "The production of battery grade lithium carbonate from brine concentrated on site is a major milestone for Rodinia. This reflects on both the quality of our brine and that of our team, who has advanced this project through the initial phases with remarkable success. This last achievement serves as further encouragement that our process design, as described in the PEA, can achieve high purity lithium carbonate production at the estimated costs."

The brine was concentrated and treated on site at the Salar and then shipped to SGS Laboratories in Lakefield, ON. The brine was then processed to prioritize lithium carbonate production following the flow sheet described in the PEA. Further batches of concentrated brine derived from the pilot ponds will be available for further processing prior to completing a full cycle at pilot scale in the first quarter of 2013. Completion of the pilot plant cycle is expected during the first quarter of 2013 and is expected to be the final component of the upcoming Feasibility Study.

William Randall added, "The next deliverable is expected to be the completion of an upgraded resource estimate that, in conjunction with the information gathered during operation of the pilot plant in Q1 2013, will form the basis of the Feasibility Study. All drilling and major construction work has been completed on site, which means we can focus our resources on the optimization of our Feasibility Study."

## **About Rodinia Lithium Inc.:**

[Rodinia Lithium Inc.](#) is a Canadian mineral exploration and development company with a primary focus on Lithium exploration and development in North and South America. The Company is also actively exploring the commercialization of a significant Potash co-product that is expected to be recoverable through the lithium harvesting process.

Rodinia's Salar de Diablillos lithium-brine project in Salta, Argentina, contains a recoverable resource of 2.82 million tonnes lithium carbonate equivalent and 11.27 million tonnes potassium chloride equivalent. The project contains a recoverable inferred resource of 952,553,000 m<sup>3</sup> grading 556 mg/L lithium and 6,206 mg/L potassium. Throughout 2012, Rodinia will focus on continuing to develop the Diablillos project by completing additional drilling and advancing through feasibility study.

The Company also holds 100% mineral rights to approximately 15,000 acres in Nevada's lithium-rich Clayton Valley in Esmeralda County, and is currently in the process of assessing the size, quality and processing alternatives of this deposit. The Clayton Valley project is located in the only known lithium-brine bearing salt lake in North America, and looks to represent the only new source for domestic lithium carbonate supply.

The Projects are supervised by Ray Spanjers, Rodinia's Manager of Exploration. Mr. Spanjers is considered

a Qualified Person, as defined by National Instrument 43-101 and has reviewed and approved the scientific and technical information contained in this press release.

Please visit the Company's web site at [www.rodinialithium.com](http://www.rodinialithium.com) or write us at [info@rodinialithium.com](mailto:info@rodinialithium.com).

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