

HLM Electron Microprobe Study indicates Low Inherent Iron Spodumene in Lithium Zones at the Pakeagam

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Sudbury, Ontario CANADA, June 11, 2014 /FSC/ - [Houston Lake Mining Inc.](#) (HLM - TSX Venture, HLKMF - OTCBB: Pink Sheets), is a mining exploration company that is actively exploring for the rare metals lithium, rubidium, cesium and tantalum by currently advancing its 100% owned and optioned PAK Rare Metals Project in northwestern Ontario, Canada. Previous work conducted by HLM has outlined the presence of potentially economic zones of lithium (spodumene) within its Pakeagama Lake pegmatite.

Today HLM reported that results of an electron microprobe study of spodumene samples taken from the Pakeagama Lake pegmatite lithium zones indicate low inherent iron. The study was carried out by HLM in collaboration with Queen's University (Steve R. Beyer, Ph.D.) and consisted of using an electron microprobe to determine the total iron content of seventeen spodumene samples taken from the Upper Intermediate (UIZ), and Lower Intermediate (LIZ) Zones of the pegmatite.

The spodumene from the spodumene-dominant UIZ intersected in diamond drill holes (DDH) PL13-001 and -005 had the lowest inherent iron, with averages ranging from 0.04 to 0.05 weight percent (wt.%) total iron oxide (Fe₂O₃) based on a detection limit of 0.03 wt.%. The inherent total iron in the spodumene from DDHs PL13-003 and -004, were below the 0.03 wt.% Fe₂O₃ detection limit.

Spodumene in the lithologically heterogeneous Lower Intermediate Zone (LIZ) contained variable Fe₂O₃ contents, with averages ranging from below the 0.03 wt.% Fe₂O₃ detection limit in DDH PL13-002, to 0.19 wt.% Fe₂O₃ in DDH PL13-003. The iron content of spodumene contained within the LIZ increases as the contact with iron-rich metasedimentary country rocks are approached, but it has been noted that a concentration below 0.1% wt.% Fe₂O₃ is maintained to within about 10 meters of the pegmatite-metasediment contact.

The monetary value of low-iron (Fe) spodumene is greater than the more common, higher iron spodumene as the former is desired for high quality technical grade ore or concentrates used in the manufacture of specialty glass products such as stove tops, ceramics and heat-proof cookware. Furthermore, a low Fe spodumene is also well suited to produce a high-yielding chemical-grade lithium concentrate which is used to produce lithium chemicals which form the basis for manufacture of, among other applications, lithium-ion batteries for laptop computers, mobile phones, electric bicycles and electric/hybrid vehicles.

"This study has resulted in the unique ability of the Pakeagama Lake pegmatite's lithium zones to possibly produce a raw lithium product that would be low in iron (below .1% Fe₂O₃) without having to rely upon concentration", commented Trevor R. Walker, President of HLM. "This feature, coupled with the high grades of the deposit give HLM confidence of the potential ability to economically produce a technical grade quality spodumene product and/or concentrate that could appeal firstly to the established specialty glass and ceramics segment of the lithium market".

Due Diligence

Mr. Peter J. Vanstone, P.Geo., an independent "Qualified Person" to HLM as defined under NI 43-101, has reviewed and approved the technical information contained in this news release.

About the PAK Rare Metals Project

The PAK Rare Metals Project lies close to the boundary between two geological sub-provinces of the western Superior geologic province in northwestern Ontario and hosts a rare metals pegmatite deposit. The deposit is an LCT (lithium- cesium- tantalum) classified pegmatite. These rare types of deposits have been the principal source of hard rock lithium, tantalum, rubidium and cesium ores mined in the world.

HLM is actively developing its 100% owned and optioned project which contains the Pakeagama Lake pegmatite. The deposit is one of the highest grade deposits in North America which has a current Inferred

Resource of 6.89 million tonnes of 1.86% Li₂O Eq. which has a technical/ceramic grade spodumene with low inherent iron (below 0.1% Fe₂O₃). Within the deposit, the pegmatite uniquely hosts an Upper Intermediate Zone of 1.17million tonnes grading 3.44% Li₂O. The pegmatite has a 265m strike length with an estimated width varying from 45 to 125m with a sub-vertical orientation. The resource remains open to depth and along strike to the northwest and southeast. An 8-hole, 1,500m Phase II diamond drill program was completed in late March 2014; assay results for this program are pending.

About Houston Lake Mining Inc.

HLM's goal is to become a fully integrated lithium and tantalum producer through the development of the PAK Rare Metals Project in Ontario, Canada. The Company's strategy is to take advantage of the global shift towards electric/hybrid vehicles and high quality consumer electronics by becoming a raw material supplier of the elements required for the pursuit of sustainable energy and other applications in high-tech electronics and metal alloys. Combined, HLM's Board of Directors and Management have over 300 years of finance, exploration and mining experience to help to facilitate the Company's goal

HLM has a total of 86,415,695 common shares issued and outstanding. For additional information on HLM, please visit www.houstonlakemining.com

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