

Rare Earth Metals Inc. Reports Initial Results From 2012 Drilling at Lavergne-Springer

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THUNDER BAY, ONTARIO -- ([Marketwire](#) - March 5, 2012) - [Rare Earth Metals Inc.](#) ("Rare Earth Metals", "RA" or the "Company") (TSX VENTURE:RA) (OTCQX:RAREF) (PINKSHEETS: RAREF) is pleased to report initial geochemical results from recent drilling on the Lavergne-Springer REE Mineralized Zone. Fifteen holes, totalling approximately 3500 meters, were completed in January and February and the main Lavergne West Zone has now been tested over a strike length of 750 meters. The results from the first three holes (DDH-SL-12-08 to DDH-SL-12-10) have been received and include a best intersection of 2.04% TREO over 22 meters within a larger zone of mineralization which assayed 1.40% TREO over 116.7 meters in DDH SL-12-08. The HREO/TREO ratio from the 22 meter intersection is 4.2% and the 116.7 meter composite is 4.7%. The other two holes intersected the zone at shallow depths and exhibited a higher grade upper zone within a wider zone of mineralization. Significant results from the recent drill holes are tabulated below:

Drill Hole HoleDepth(m) From(m) To(m) Interval(m) TREO
 *% HREO*TREO*(%) Ce2O3(%) La2O3(%) Nd2O3(%) Pr2O3
 (%) Nd2O3% + Pr2O3 TREO (%)

SL-08 288 13 129.7 116.7 1.40 4.7 0.64 0.37 0.24 0.07 21.6

Inc

19 119 100 1.49 4.7 0.68 0.39 0.25 0.07 21.3

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19 41 22 2.04 4.2 0.94 0.57 0.31 0.10 20.0

and

62 89 27 1.70 4.5 0.78 0.48 0.25 0.08 19.5

SL-09 255 60 148.5 88.5 1.05 6.9 0.45 0.21 0.22 0.06 26.5

66 96 30 1.47 5.5 0.65 0.31 0.31 0.08 26.7

SL-10 150 10 150 140 0.95 3.2 0.45 0.29 0.12 0.04 17.5

inc

10 69 59 1.40 2.9 0.67 0.44 0.18 0.06 17.1

10 34 24 2.08 2.7 0.99 0.66 0.26 0.09 16.8

Over 1700 core samples have been submitted for geochemical analyses from the 2012 drilling and results will be released as they become available. Initial results from the early winter drilling program suggest the East and West Zones are connected and are a part of a much larger mineralized system. A 43-101 resource calculation based on the 6000 meters of drilling completed in 2011-2012 is expected to be available by mid-May, 2012. A location map of the drill holes can be viewed on the Company's website at [www.rareearthmetals.ca](#).

Commented Michael Stares, President and CEO of Rare Earth Metals, "We are very pleased with the initial results which indicate the Lavergne West Zone has good continuity over substantial widths and may contain a higher grade upper zone. This project has a number of positives including location and infrastructure, simple mineralogy and very low thorium levels. Once we establish the zones size and grade parameters, we expect to advance the project towards a preliminary economic assessment because of these positives."

Background - The Lavergne-Springer property is located in Springer Township, located immediately north of the Town of Sturgeon Falls and 80 km east of Sudbury, Ontario. Seven holes were completed in the summer of 2011 to initially test the Lavergne-Springer Zones. Five of these early holes tested the Lavergne West Zone over a strike length of 300 meters and produced drill widths varying from 79 meters to 360 meters with higher grade intersections up to 1.65% TREO over 90.2 meters within a larger zone of 1.43% TREO over 157.5 meters in hole SL-11-03 (see previous press release dated Sept 15, 2011). Of particular note is the unusually low radioactivity associated with the host REE mineralization in this zone. (Thorium ranges from 12 ppm to 320 ppm averaging 57 ppm and Uranium is

Core from the drill program was logged at Rare Earth Metals' core shack on site and split in half using a hydraulic core splitter. One half of the core was sent to Activation Laboratories Ltd. ("Actlabs") for analysis

and the other half was kept in core boxes at the camp for reference. All samples were delivered by Company personnel to Manitoulin Transport and shipped to Actlabs' sample preparation facility in Ancaster, Ontario. Prepared samples were analyzed by Actlabs' analytical facility in Ancaster, Ontario. The digestion technique utilized was total digestion that employs a lithium metaborate/tetraborate fusion and the analysis is completed using ICP, ICP/MS and XRF techniques. For QA/QC purposes Rare Earth Metals systematically inserts standards, duplicates and blanks into every sample batch. Actlabs is an ISO 17025 (Lab 266) and NELAP (Lab E87979) accredited lab for specific registered tests.

The Rare Earth Element assays are reported as Total Rare Earth Oxides (TREO). The TREO includes all the Rare Earth Oxides plus Yttrium Oxide. As per industry standard the TREO are broken down into Light Rare Earth Oxides (LREO) and Heavy Rare Earth Oxides (HREO). The LREO consists of Ce₂O₃, La₂O₃, Nd₂O₃, Pr₂O₃ and Sm₂O₃ and the HREO consists of Eu₂O₃, Gd₂O₃, Tb₂O₃, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃ and Y₂O₃. The % HREO is calculated by dividing the HREO by the TREO.

Reg Felix, P Geo., is a qualified person as defined in National Instrument 43-101, and has reviewed and approved the technical information forming the basis for release.

About Rare Earth Metals Inc.

Rare Earth Metals is a well-funded company with a focus on exploring for Rare Earth Element deposits. The Company's shares are listed on the TSX-V exchange under the symbol RA and the OTCQX exchange under the symbol RAREF. The Company presently has two advanced projects in Ontario and Newfoundland and Labrador, both exhibiting multi element potential (REEs, Niobium, Beryllium, Zirconium and Iron Ore) and proximity to available infrastructure. Its flagship properties are the Clay-Howells Prospect and the Red Wine Project. The Company has recently acquired additional properties in the Coldwell Complex near Marathon, Ontario and the Lavergne-Springer REE Prospect near Sturgeon Falls, Ontario. Additional information concerning the Company is contained in documents filed by the Company with securities regulators, available under the Company's profile at www.sedar.com. For more information please visit the Rare Earth Metals web site at www.RareEarthMetals.ca.

ON BEHALF OF THE BOARD OF DIRECTORS OF RARE EARTH METALS INC.:

Michael Stares
President and CEO

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