



PRESS RELEASE

CRITICAL ELEMENTS DISCOVERS NEW IN-SITU MOLYBDENITE, COLOMBITE OR ALLANITE AND PHOSPHATE MINERALIZATION AT TRIDENT-KIN

SEPTEMBER 13, 2011 – MONTREAL, QUEBEC – **Critical Elements Corporation** (TSX.V: CRE) (US OTCQX: CRECF) (FSE: F12) (“Critical Elements”) is pleased to provide an update on the work program at its BC Tantalum, Niobium & Rare Earths Elements property, including a new discovery of in-situ molybdenite, columbite or allanite and phosphate mineralization.

The airborne survey is now complete and the Company has received preliminary airborne Mag and radiometrics data from Aeroquest, and is actively using this data to plan traverses for Hiren, Trident, Kin and IRC.

To date, the program has consisted of the collection of silt-stream samples for the Kin, Trident and Hiren properties. The silt program went very well, with an average sample density of 1.6 silts per square kilometre, resulting in a total of 312 silt samples. A portable XRF was used at the field camp to analyse the silt samples, and greatly assisted the direction of the 2011 field traverses.

Both the airborne data and infield XRF silt-stream analysis are proving of great assistance to the program. The traverses at the Kin property have revealed significant new in-situ mineralization discoveries. The mineralization is in the form of molybdenite, columbite or allanite and phosphate mineralization associated with aplitic granite, syenite and quartz veins. Most of these mineralized systems are associated with thorium radiometric anomalies, with very similar characteristics to the mineralization noted in the high-grade REE boulder samples collected in 2010, which returned up to 5.26% TREO and 2.7% Nb₂O₅. Similar ±5-metre wide molybdenite-bearing sills have also been discovered this season at the Trident property.

We were pleased to have Leo Millonig (a post-doc studying the BC REE belt) on traverses with us for part of the program on Trident-Kin. His input has been very helpful, and he has collected many samples to help with mineral identification, in addition to his inputs in terms of academic knowledge of these alkaline systems.

The Company also wishes to inform its shareholders that the 43-101 technical report on the Rose property resource is now available on SEDAR.

“I am very pleased with how the program is progressing and the quality of the mineralization we are encountering,” stated Jean-Sébastien Lavallée, President & CEO of Critical Elements Corporation.

ABOUT CRITICAL ELEMENTS CORPORATION

Critical Elements is actively developing its 100%-owned Rose lithium-tantalum flagship project located in Quebec. The project hosts a current new NI 43-101 compliant **Indicated resource of 26.5 million tonnes of 1.30% Li₂O Eq. or 0.98% Li₂O and 163 ppm Ta₂O₅ and an Inferred resource of 10.7 million tonnes of 1.14% Li₂O Eq. or 0.86% Li₂O and 145 ppm Ta₂O₅.**

Critical Elements has commissioned a prefeasibility study for the project from Genivar, one of the largest independent engineering firms in Canada. Genivar is also doing an environmental study, and Acme Metallurgical Ltd. of Vancouver is carrying out project metallurgy.

Critical Elements' portfolio also includes rare-earth and tantalum-niobium projects in the Rocky Mountains of British Columbia and in Quebec, as well as a 50% interest in the Croinor project, which is located in Quebec and hosts a current NI 43-101 compliant measured and indicated resource of 814,228 tonnes at 9.11 g/t Au, for 238,414 ounces of gold at a 5 g/t cut-off.

Jean-Sebastien Lavallée (OGQ #773), geologist, shareholder and president and chief executive officer of the Company and a Qualified Person under NI 43-101, has reviewed and approved the technical content of this release.

Critical Elements shareholders, please contact:

Jean-Sébastien Lavallée, P. Geo, President & CEO

819-354-5146

president@cecorp.ca

www.cecorp.ca

Paradox Public Relations

Jean-Francois Meilleur

514-341-0408

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