



## **Nuinsco Testing to Enhance Concentrate Production at Prairie Lake Has Begun** *Ability to produce distinct niobium and phosphorus concentrates will enhance economic appeal*

**Toronto, November 30, 2011** – Nuinsco Resources Limited (“Nuinsco”)(TSX:NWI, [www.nuinsco.ca](http://www.nuinsco.ca)) today announced that optimized metallurgical evaluation is underway to produce separate niobium ( $\text{Nb}_2\text{O}_5$ ) and fertilizer-grade phosphorus ( $\text{P}_2\text{O}_5$ ) concentrates from Prairie Lake mineralization. Already the second largest deposit of its kind in North America, this testing is designed to enhance Prairie Lake’s economic viability.

“We’ve shown that Prairie Lake is big and has the potential to become much bigger, and demonstrated that we can produce a concentrate grading up to 23.6%  $\text{P}_2\text{O}_5$  using a non-optimized metallurgical process,” said Paul Jones, President. “The potential to produce a concentrate containing greater than 30%  $\text{P}_2\text{O}_5$  as well as an  $\text{Nb}_2\text{O}_5$  concentrate by optimizing the process is very real. This testing, if successful, combined with its location near existing power and transportation infrastructure, will greatly enhance Nuinsco’s ability to create value from the Prairie Lake project.”

The tests will take several months to complete and will evaluate optimized gravity, flotation and magnetic separation methods. A 1,000kg sample was submitted to COREM in Quebec City to evaluate production of an apatite concentrate that can attain the requirements of the fertilizer industry – namely  $\text{P}_2\text{O}_5$  content of >30%,  $\text{CaO}/\text{P}_2\text{O}_5$  <1.6% and magnesium oxide (“MgO”) content <1%. COREM conducted an earlier metallurgical program on Prairie Lake mineralization (see news release dated Nov. 4, 2010) in which it was demonstrated that the production of high grade phosphorus concentrates is possible. Production of a second and distinct niobium/pyrochlore concentrate will also be investigated.

### **About Prairie Lake**

Located about 45 kilometres northwest of Marathon, Ontario, Nuinsco’s Prairie Lake property covers the entire 2.8 km<sup>2</sup> (at surface) Prairie Lake Carbonatite Complex and is easily accessible from the TransCanada Highway. The Prairie Lake project hosts an Exploration Target Mineralization Inventory (“ETMI”) of 515 – 630 million tonnes grading between 0.09-0.11%  $\text{Nb}_2\text{O}_5$  (0.9 to 1.1 kg/tonne) and 3.0-4.0%  $\text{P}_2\text{O}_5$  (see news release dated October 26, 2011).

The ETMI increase places Prairie Lake well within the ranks of the ten largest carbonatite-hosted niobium deposits in the world. In North America, Prairie Lake is second only to the Iron Hill Project in Colorado owned by Colorado Rare Earths Inc., in contained tonnes (the average grade at Prairie Lake is however greater). All of the mineralization is exposed at surface and could be exploited by simple quarrying methods. The suite of minerals of potentially economic significance also includes tantalum (Ta), uranium (U) and rare earth elements (REE) (including lanthanum (La), cerium (Ce), samarium (Sm), neodymium (Nd) and yttrium (Y)).

The ETMI was undertaken by Eugene Puritch, P.Eng. and Antoine Yassa, P.Geo of P&E Mining Consultants Inc. of Brampton, Ontario. All exploration work is supervised by Paul Jones, P.Geo, President, who acts as Nuinsco’s Qualified Person under National Instrument 43-101. Mr Jones has reviewed and approved the contents of this news release. The potential quantity and grade of the ETMI is conceptual in nature and there has been insufficient exploration to define a mineral resource. It is uncertain if further exploration will result in the discovery of a mineral resource.

### **About Nuinsco Resources Limited**

Nuinsco is a growth-oriented, multi-commodity mineral exploration company that is focused on world-class mineralized belts in Canada, Turkey, Egypt and Sudan. In addition to its property holdings, Nuinsco owns common shares in Coventry Resources Limited (ASX:CVY) and Victory Nickel Inc. (TSX:NI).

Shares of Nuinsco trade on the Toronto Stock Exchange under the symbol NWI.

**Nuinsco Resources Limited**

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