Prairie Lake Concentrate Demonstrates Excellent Marketability Characteristics
Concentrate of >30% P_2O_5 with acceptable other element levels obtained

Highlights

- Concentrate grade up to 34.4% phosphorus (P_2O_5) with acceptable levels of other elements.
- Results show potential to produce a saleable concentrate using industry-standard processing methods.
- Results continue to indicate the ability to improve both recovery and concentrate grade.
- Next steps will include discussions with potential end-users/partners.

Toronto, June 18, 2012 – Nuinsco Resources Limited ("Nuinsco")(TSX:NWI, www.nuinsco.ca) today reported additional excellent results from the metallurgical testing program from its 100%-owned Prairie Lake phosphorus - rare metals project in northwestern Ontario.

"These most recent results clearly show that Prairie Lake rock is amenable to conventional processing and concentration," said Paul Jones, President. "The tests confirm the potential to produce a marketable product by meeting and exceeding most published specifications for phosphate concentrates and most importantly demonstrating that a concentrate grading greater than 30% P_2O_5 with magnesium oxide (MgO) content <1%, and calcium oxide ratio CaO/P_2O_5 ≤1.6[1] is attainable. These are important thresholds to viability, and our next step is to hold discussions with potential end-users and partners."

The most recent results were produced from a series of tests conducted on a 1,000kg sample grading 3.18% P_2O_5 (and 0.13% Nb_2O_5) with a specific gravity of 2.99 g/cc and a bulk density of 1.59 g/cc (after crushing to -1.7mm). Apatite is the phosphorus-bearing mineral in a rock that also contains calcite, dolomite, biotite, magnetite and rutile. The apatite contains on average 43.1% P_2O_5 and occurs in the form of clear, well-formed crystals up to 250 µm in size. The primary use of apatite is in the manufacture of fertilizer and the fact that this mineral can be liberated by conventional methods is a further indication that a viable phosphorus concentrate can be produced that would be marketable to the fertilizer industry.

Selected results from the Prairie Lake tests are tabulated below and are compared to published specifications of the Bureau of Indian Standards (a division of the Government of India's Ministry of Consumer Affairs, Food & Public Distribution) for phosphate concentrates Type I and II. Test 35 from the Prairie Lake program produced the best overall concentrate to date with a P_2O_5 content of 30.6%; along with an SiO_2 content of 1.37%, F content of 0.62%, MgO content of 0.7%, Cl content of 0.012% and Al_2O_3 + Fe_2O_3 of 0.65%. Selected size ranges from Test 35 produced even higher P_2O_5 concentrations with <150µm to >106µm and <106µm to >75µm attaining contents of 38% and 38.1% P_2O_5 respectively, while Test 27 attained 34.4% P_2O_5 with the use of an HCl acid leach to remove carbonate.

Bureau of Indian Standards (BIS) - IS: 11224-1985, reaffirmed 2003	Type I	Type II	Test 35 Con.	Test 35 Con. -150+106µm	Test 35 Con. -106+75µm	Test 27 Con. after Leach
Total phosphate (P_2O_5) % by mass	≥ 30	≥ 32	30.6	38	38.1	34.4
Silica (SiO_2) % by mass	≤ 10	≤ 5	1.37	1.12	1.2	5
Fluoride (F) % by mass	≤ 2	≤ 4	0.62	0.72	0.83	Insufficient sample
Mixed aluminum and iron oxide (Al_2O_3 and Fe_2O_3) % by mass	≤ 3	≤ 3.5	0.65	0.44	0.48	2.99
Magnesium oxide (MgO) % by mass	≤ 0.5	≤ 0.5	0.7	0.32	0.39	2.26
Chloride (Cl) % by mass	≤ 0.015	≤ 0.05	0.012	0.033	0.009	0.043

The results continue to indicate the ability to improve both concentrate grade and recovery.

The apatite concentrates were produced during initial metallurgical testing at COREM in Quebec City of a 1,000kg sample submitted in September 2011.

Prairie Lake is one of the largest deposits of its type in the world. Not only does it have tremendous scale (refer below), but its proximity to existing infrastructure and transportation networks, the relative ease with which it could be exploited from surface using quarry methods, the continuing potential for expansion of the known mineralization, and now favourable phosphorus metallurgy all point to Prairie Lake being a very valuable asset within Nuinsco's property portfolio.

About Prairie Lake

Located about 45 kilometres northwest of Marathon, Ontario, Nuinsco's Prairie Lake property covers the entire 2.8 km^2 (at surface) Prairie Lake Carbonatite Complex and is easily accessible from the TransCanada Highway. In January, 2012, Nuinsco bought back a 2% production royalty making the property royalty-free.

The NI-43-101-compliant Exploration Target Mineralization is 515 – 630 million tonnes grading between 0.09-0.11% niobium (Nb_2O_5) (0.9 to 1.1 kg/tonne) and 3.0-4.0% P_2O_5 if this were confirmed as a resource, it would make Prairie Lake one of the world's ten largest carbonatite hosted niobium deposits as well as a significant phosphorus resource. The current metallurgical work establishes the project as a substantial, recoverable, phosphorus inventory. 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). A current economic analysis has not been completed and economic viability has not been established. The Exploration Target Mineralization 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 and Laura Giroux, P.Geo, Senior Geologist, who act as Nuinsco's Qualified Persons under National Instrument 43-101. Mr. Jones and Ms. Giroux have reviewed and approved the technical 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 and development company that is focused on uranium, copper, zinc and gold exploration and development in world-class mineralized belts in Canada and internationally. In addition to its property holdings, Nuinsco owns common shares in Coventry Resources Limited (ASX:CVY) and Victory Nickel Inc. (TSX:NI), and a 50% interest in CBay Minerals Inc., a private company that is a dominant player in Quebec's Chibougamau mining camp with assets including a permitted mill, tailings facility, eight past producing copper/gold mines and a 96,000 acre land position. Shares of Nuinsco trade on the Toronto Stock Exchange under the symbol NWI.

Annual and Special Meeting

As a reminder, the Company's Annual and Special Meeting for Shareholders ("ASM") will take place today, Monday, June 18, 2012, at 4:00 p.m. Toronto Time at the Toronto Board of Trade, 1 First Canadian Place, Toronto, Ontario. The ASM will be webcast and can be accessed at http://www.gowebcasting.com/3408 and through Nuinsco's website at www.nuinsco.ca.

[1] Sis, H. and S. Chander, 2003. Reagents used in the flotation of phosphorus ores; A critical review. In *Minerals Engineering*, v.16, pp577-585

Nuinsco Resources Limited

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