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North American Nickel Completes Drill Campaign at its Maniitsoq Ni-Cu-PGE Project, Southwest Greenland

Vancouver, B.C. – September 20, 2012. North American Nickel Inc. (TSX VENTURE: NAN) (OTCBB: WSCRF) (CUSIP: 65704T 108) North American Nickel ("NAN") is pleased to report that it has completed its first drill campaign at its 100% owned Maniitsoq project. Drilling commenced on August 26 and was completed on September 16. Nine diamond drill holes totalling 1,550 metres were drilled.

All nine holes have been logged and all mineralized intersections have been sampled. A total of **531** samples have been collected for assay. The samples are now on their way to Activation Laboratories for analysis and results are expected in four to eight weeks.

The holes tested electromagnetic (EM) anomalies associated with noritic rocks and nickel sulphide showings. The anomalies were outlined by SkyTEM and VTEM helicopter-borne, time domain, EM surveys flown by the company in 2011 and 2012. Crone Geophysics Ltd of Mississauga, Ontario surveyed eight of the holes with their 3-component borehole pulse EM (BHEM) system. Preliminary analysis has been completed and final analysis will be done before assay results are received.

Results from the drilling and BHEM surveys will be merged with the Company's existing exploration database which will allow the NAN geological team to finalize its plans for the 2013 drill season at Maniitsoq.

The NAN website has been updated and shareholders are invited to visit the website for previous press releases and more information on NAN and the Maniitsoq project. The Company website is www.northamericannickel.com.

Qualified Person

All technical information in this release has been reviewed by Dr. Mark Fedikow, P. Geo, who is the Qualified Person for the Company and President and Chief Operating Officer, North American Nickel Inc.

About North American Nickel

North American Nickel is a mineral exploration company with 100% owned properties in Maniitsoq, Greenland, Sudbury, Ontario, and the Thompson, Manitoba nickel belt. VMS Ventures Inc. (TSX.V: VMS) owns approximately 27M shares of NAN.

The Maniitsoq property in Greenland is a district scale project. It comprises a 4,983 square km mineral exploration licence covering numerous high-grade nickel-copper sulphide occurrences associated with norite and other mafic-ultramafic intrusions. The 70km plus long belt is situated along, and near, the southwest coast of Greenland, which is ice free year round.

The Post Creek/Halycon property in Sudbury is strategically located adjacent to the producing Podolsky copper-nickel-platinum group metal deposit of Quadra FNX Mining. The property lies along the extension of the Whistle Offset dyke structure. Such geological structures host major Ni-Cu-PGM deposits and producing mines within the Sudbury Camp.

The WIC is situated 13 km southeast of Sudbury and 1 km south of Trans Canada Highway 17 at Wanapitei. It is an elongate 5.6 km by 2.4 km layered mafic intrusion trending northeast-southwest that comprises nickel-copper-PGE mineralized gabbro-norite and a gabbro "Injection Breccia Zone".

Statements about the Company's future expectations and all other statements in this press release other than historical facts are "forward looking statements" within the meaning of Section 27A of the *Securities Act of 1933*, Section 21E of the *Securities Exchange Act of 1934* and as that term defined in the *Private Litigation Reform Act of 1995*. The Company intends that such forward-looking statements be subject to the safe harbours created thereby. Since these statements involve risks and uncertainties and are subject to change at any time, the Company's actual results may differ materially from the expected results.

For more information contact:

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