



NORTHERN
G O L D MINING INC.

NORTHERN GOLD INTERSECTS 26.75 METERS AT 1.5 g/t Au, 43 METERS AT 1.0 g/t Au AND 7 METERS AT 2.7 g/t Au ON CURRENT IN-FILL DRILL PROGRAM

September 2, 2010 (TORONTO, ONTARIO): Northern Gold Mining Inc. (TSX-V: NGM) ("Northern Gold" or "the Company") announced today additional results from the ongoing in-fill drill program on the Garrcon Project, one of the mineralized zones known to occur within the Garrison Gold Property. Results highlights presented below are from holes GAR-10-14 and GAR-10-15 which are part of the 10,000 meter 2010 diamond drilling program.

"We are very pleased with the assay results for these drill holes as they continue to add ounces and tonnes further defining the potential for a bulk mineable resource here", said Martin Shefsky, President and CEO of Northern Gold Mining Inc. "The current drill program will continue to focus on filling in and expanding the known gold mineralization within the 400 by 200 meter area to a depth of 200 meters that is the focus of our 10,000 meter in-fill and delineation drill program for this year."

In-fill Drill Holes

Hole ID	Zone	From (m)	To (m)	Length (m)	Grade (g/t)
GAR-10-14	Shaft Zone	50.75	143.00	92.25	0.8
<i>(includes)</i>	Shaft Zone	50.75	77.50	26.75	1.5
<i>(includes)</i>	Shaft Zone	123.00	143.00	20.00	1.2
<i>(includes)</i>	Shaft Zone	130.00	136.00	6.00	2.4
GAR-10-15	North Zone	69.00	112.00	43.00	1.0
<i>(includes)</i>	North Zone	84.00	91.00	7.00	2.7
<i>(includes)</i>	North Zone	106.30	112.00	5.70	1.9

Reported intersection widths are drilled thicknesses. True widths are not known.

GAR-10-14 was drilled below and north of the east - west striking Shaft Zone mineralization delineated by previous drill holes GAR-09-04 (press release January 25, 2010) and GD86-9 drilled by Jonpol. Interpretation of previous drill hole results and geophysical data indicated that this area is a transition zone between the Shaft Zone mineralization. This area varies from 25 to 50 meters in width between the Shaft and North Zones and contains disseminated and randomly oriented gold mineralization. GAR-10-14 encountered the transition zone with the grades expected. GAR-10-14 was drilled along grid line 13+50 W at an azimuth of 160 degrees and dip of minus 45 degrees to a total depth of 322.5 meters. The hole was designed to in-fill a known mineralized zone, testing an area 25 meters west of GAR-09-04 at a point midway between holes GD86-9 drilled by Jonpol and C06-08 drilled by ValGold drilled 25 meters to the west.

GAR-10-15 was drilled along grid line 12+25 W at an azimuth of 340 degrees and a dip of minus 45 degrees to a total depth of 129 meters. The hole successfully filled in gold mineralization information between GAR59 and GD86-8, previously drilled by Jonpol on the same section, tightening the area of influence of those drill holes from more than 50 meters to about 25 meters each and improving the knowledge of known mineralization along section 12+25 W. The down hole thickness and grade of mineralization in GAR-10-15 not only correlate very favourably with adjacent holes along the same section line, but they also correlate

very favourably with mineralization delineated in previously drilled holes GAR-61, GAR-09-01 (press release Dec. 9, 2009) and Gar-09-09 (press release Mar. 4, 2010) on section 12+00 W which is 25 meters to the east. Additional in-fill drilling will be carried out on section 12+75 W to further define the mineralized footprint.

Northern's 2010 in-fill and definition drill program is progressing well, with nineteen holes completed to date. Total drilled is approximately 3,900 meters. It is expected that another 25 drill holes will be completed in this program as currently planned. That will bring total drill holes in the Garrcon Project available for calculation of a NI 43-101 compliant mineral resource to more than 100, approaching 27,000 total meters. Assay results reported to date continue to confirm the continuity of mineralization based on the Company's interpretation of data obtained for previously drilled holes, and indicate that additional in-fill and delineation drilling both along section and along strike is warranted. Assay results are pending on another seven completed drill holes. Northern has added a second core logging geologist to insure that core logging and splitting keeps up with the drilling.

Northern Gold Mining Inc. has implemented a quality assurance and control (QA/QC) program to ensure sampling and analysis of all exploration work is conducted in accordance with the best possible practices. The rock samples collected were sent to Laboratoire Expert Inc in Rouyn Noranda, Quebec, and analyzed using the appropriate gold fire assaying technique. Sample standards and blanks are inserted into the sample stream at regular intervals to ensure at least 1 standard or blank is included in each analytical run at the lab in order to ensure lab integrity. Approximately 5% of sample rejects and/or pulps will be sent to a different lab from the lab which ran the original assay for check assaying.

About Northern Gold Mining

Northern Gold is focused on developing two advanced stage projects on its gold property in the world renowned mining districts of Kirkland Lake and Timmins in Northeastern Ontario. The property is located within the Abitibi greenstone belt, along the Porcupine-Destor and the Munro Faults. The Garrison Township Property consists of the Jonpol Project and the Garrcon Project. The Garrison Township Property has historic mining infrastructure and producing mines are located in close proximity to the property. An indicated resource of 253,100 tonnes grading 7.77 g/t Au (containing 63,200 ounces of gold) and an inferred resource of 1.6 million tonnes grading 4.93 g/t Au (containing 246,540 ounces of gold), were disclosed for the JonPol project in a NI 43-101 report filed by Northern Gold on SEDAR on 21 October 2009. The Company is in the first year of an option agreement under which it may earn up to an 80% interest in the Garrison gold property from ValGold Resources Ltd. ("ValGold," TSX-V: VAL). For more information on the option agreement, please see the Company's news release dated 14 September 2009.

This press release has been reviewed and approved by Michael Gross M.S., P.Geol., Vice President Exploration for Northern Gold, who is the "Qualified Person" as defined by NI 43-101 for this project.

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