

Sixty North Gold Mining Reports Initial Assays Return High-Grade Gold Values up to 62.6 gpt from the A-Zone and DD-Zone

Vancouver, British Columbia--(Newsfile Corp. - September 4, 2024) - Sixty North Gold Mining Ltd. (CSE: SXTY) (FSE: 2F40) (OTC Pink: SXNTF) (the "Company" or "Sixty North Gold")

Sixty North Gold Mining Ltd. has received the first batch of assays from the recently developed A-Zone West Limb and the parallel DD-Zone located 12 m to the west. A second set of samples of the East Limb of the A-Zone were submitted August 27 with results anticipated in late September.

The newly recognized DD Zone had seven samples collected with the results as shown below:

Sample	Date	Zone	Details	Description	Gold gpt
J089401	2024-07-09	DD Zone	muck	Quartz with pink alteration	37.5
J089402	2024-07-10	DD Zone	1.3m chp	Quartz with pink alteration	6.3
J089403	2024-07-13	DD Zone	30-32 (2m) chp	Edge qtz with pink alteration	<0.9
J089404	2024-07-13	DD Zone	32-34 (2m) chp	Quartz with pink alteration	9.7
J089411	2024-07-22	DD Zone	970 XCE 1m chp	Quartz with pink alteration	<0.9
J089413	2024-07-23	DD Zone	970 XCE 0.3m chp	Quartz with pink alteration vg	62.6
J089417	2024-07-24	DD Zone	MR 1.5m chp	Quartz with pink alteration	<0.9

muck=composite grab sample from blasted rock.

chp = chip sample

The seven samples average 17.24 gpt gold and have an average measured SG of 2.83 gm/cc over sample widths of 0.3 to 2 m.

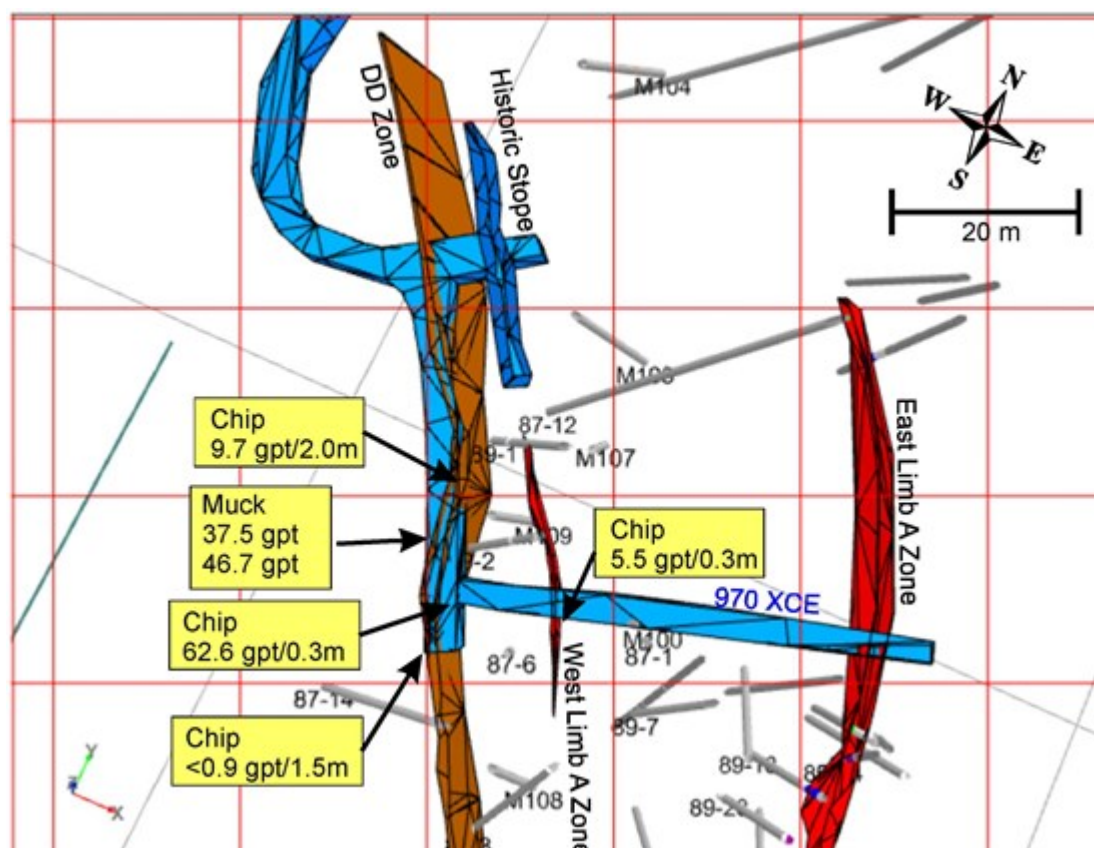


Figure 1. Fourteen metre slice of an inclined (12% @ 152°) horizontal plane on A-Zone and DD-Zone,

Mon Gold Mine.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/5873/222074_e83bff2ad4856b5a_001full.jpg

The West Limb of the A Zone had a single sample collected across a 0.3 m width, grading 5.5 gpt.

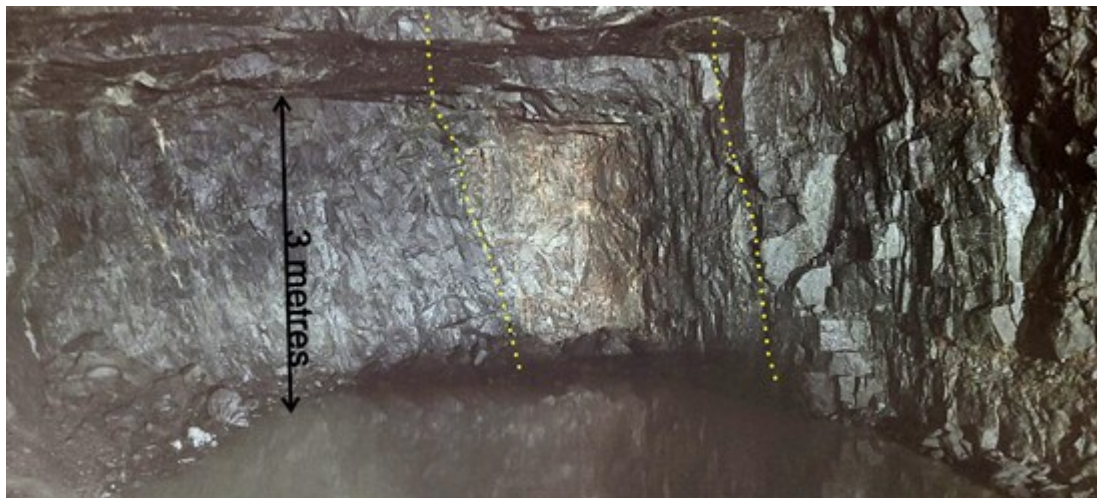


Photo 1. August 2024 Main Ramp, south face showing 2 m wide pink alteration with quartz. DD-Zone.

To view an enhanced version of this graphic, please visit:

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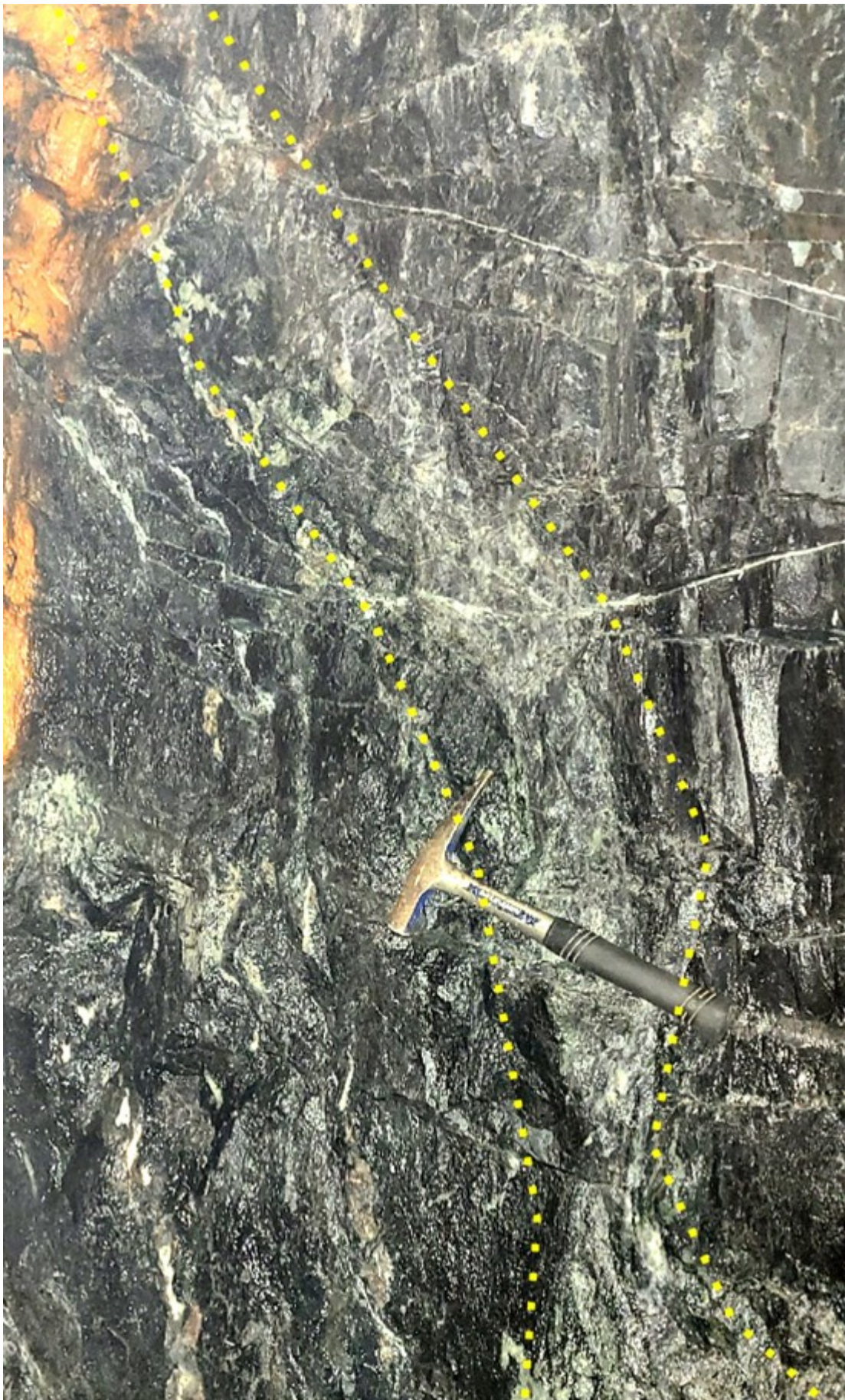


Photo 2. South-facing wall of 970XCE showing west limb A-Zone.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/5873/222074_e83bff2ad4856b5a_003full.jpg

The East Limb of the A-Zone has been encountered 32 m east of the West Limb where it exposed over

1 m in the 970 XCE. Samples have been collected and will be reported when they are received.



Photo 3. North-facing east limb of A-Zone. Hammer for scale.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/5873/222074_e83bff2ad4856b5a_004full.jpg

Dr. Dave Webb, Ph.D., P.Eng., P.Geol., President & CEO, Director stated, "We are very happy to have confirmed the location of the A-Zone quartz veins of a size and grade as to be economically interesting. Our plan was to expose these veins in preparation for the mining and milling planned for 2025. The discovery of the DD-Zone is an unexpected bonus. Additional sampling will refine these results.

The DD Zone has returned an average grade of 17.24 gpt from seven samples, ranging up to 62.6 gpt gold/0.3 m. It is exposed over 17 m in the Main Ramp where it averages 2.0 m in width. The face of the Main Ramp hosts the DD-Zone where it is 2 m wide on the west-side of the ramp. The West Limb of the A-Zone is narrower than normal and will be tested along strike to confirm widths and grades.

The East Limb of the A-Zone appears to be well mineralized with assays anticipated in late September.

A total of 250 tonnes of mineralized material has been placed on a separate pile. The successful completion of this phase will support the company's acquisition and installation of the permitted 100 tpd mill and relevant infrastructure to restart processing on site. Twelve vein samples were submitted for specific gravity analysis (SPG-04) returning an average of 2.83 gm/cc."

Samples were collected by D.R. Webb and delivered to Bureau Veritas Laboratories (BVI). All assays were completed by BVI, an independent certified laboratory using PRP70-250 preparation and fire assay (FA530-Au) analytical techniques. Two Certified Reference Standards, one at 9.43 gpt +/- 0.44 gpt gold and one blank at <0.01 gpt gold were submitted and returned acceptable results out of 15 submitted samples.

Dr. D.R. Webb, PhD., P.Geol., P.Eng is the Qualified Person and is responsible for the technical details in this release.

About the Company

The Company is developing mining operations for gold on its 100%-owned Mon Gold Property, 40 km north of Yellowknife, NWT. Past production of the A Zone extracted 15,000 tonnes at 30 gpt gold from this vein (Company Technical Report, August 3, 2023, on SEDAR or <https://sixtynorthgold.com/projects/technical-report/>). The Yellowknife gold camp hosts two mines that averaged 30 gpt gold or better (Discovery and Sixty North Gold's Mon Mine), and two that averaged 15 gpt or better for a total production of over 14 million ounces of gold (Con Min and Giant Mine) (ref. Sixty North Gold NI 43-101, August, 2023).

For more information, please refer to the Company's public filings available on SEDAR+ (www.sedarplus.ca), under the Company's profile.

ON BEHALF OF THE BOARD OF DIRECTORS

"Dave Webb"

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Statements about the Company's future expectations and all other statements in this press release other than historical facts are "forward-looking statements." Such forward-looking statements are based on numerous assumptions, and involve known and unknown risks, uncertainties and other factors, including risks inherent in mineral exploration and development, which may cause the actual results, performance, or achievements of the Company to be materially different from any projected future results, performance, or achievements expressed or implied by such forward-looking statements. Further details about the risks applicable to the Company are contained in the Company's public filings available on SEDAR+ (www.sedarplus.ca), under the Company's profile.

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60 NORTH GOLD

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