

Tectonic Drills 12.45 G/T AU Over 5.15 METRES in Phase I Drill Program at Tibbs Gold Project, Alaska

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VANCOUVER, Oct. 25, 2021 - [Tectonic Metals Inc.](#) (TSXV: TECT) (OTCQB: TETOF) (FSE: T15B) (the "Company" or "Tectonic") today announced Phase I drill results from the first seven diamond drill holes comprising a total of 803m of drilling from the Company's 2021 campaign at the Tibbs Gold Project ("Tibbs"), located less than 35 kilometers ("km") from Northern Star Resources' (ASX: NST) Pogo Gold Mine ("Pogo"). Drill results include highlight intercepts containing visible gold and 12.45 grams per tonne gold ("g/t Au") over 6.12 metres ("m"), including 33.92 g/t Au over 1.22m and 41.39 g/t Au over 5.15m. Assay results are pending from an additional 23 drill holes from the second phase of diamond circulation ("RC") drilling comprising an additional 4,215m. Tectonic drilled a total of 5,018m, both RC and oriented diamond drilling, during the 2021 season.

Highlights and Key Takeaways

- Tectonic's maiden oriented core diamond drilling successfully intersected high-grade gold mineralization at two key zones at Tibbs: Gray Lead and Michigan.
- Oriented core diamond drilling at Gray Lead intersected high-grade Pogo-style quartz-pyrite-arsenopyrite veining with visible gold:
 - 12.45 g/t Au over 5.15m, including 41.39 g/t Au over 1.26m (TBDD21-007)
 - 5.67 g/t Au over 6.89m, including 12.3 g/t Au over 1.89m (TBDD21-006)
 - Structural measurements and analysis of high-grade intervals identified a previously unknown northwest plunging high-grade core of the Gray Lead vein system, which remains untested
 - The Gray Lead Zone is open in all directions and at present contains 250m of mineralized strike to a depth of 250m vertical
- Oriented core diamond drilling in the heart of the Michigan structure successfully intersects high-grade gold hosted by quartz-stibnite-pyrite-arsenopyrite veins with visible gold:
 - 7.69 g/t Au over 6.12m, including 33.92 g/t Au over 1.22m (TBDD21-001)
 - 1.81 g/t Au over 5.00m (TBDD21-002)
 - Structural measurements and analysis indicate an east-west orientation for high-grade, visible gold-bearing veins within a broad northeast-trending damage zone
 - The Michigan Zone is open in all directions and at present contains 275 metres of mineralized strike to a depth of 250m
- Assays have only been received for seven oriented core diamond holes completed in Phase I and reported herein comprising 803m of drilling.
- Assay results are pending for the 23 drill hole (4,215m) exploratory component of the 2021 program, which was included in the Company's 2021 TITAN geophysical survey, the comprehensive geological knowledge gained from the initial drilling reported in this news release, and the new 2021 high-grade gold rock sampling from Tibbs South.

Maps, cross sections, and drill assay sheets associated with this news release can be viewed by clicking [here](#).

Tony Reda, President and CEO, commented, "Our Phase I diamond drilling program at Tibbs targeted some of the highest grade gold anomalies in the Goodpaster Mining District of Alaska, obtaining the first ever oriented drill core from Tibbs and successfully intersecting multiple intervals of visible gold in quartz veining at Michigan as well as Pogo-style quartz veining at Gray Lead. Tectonic's diamond drilling campaign identified previously unknown controls on high-grade mineralization, with an east-west trend revealed within the core of Michigan, and a previously unrecognized plunge to the northwest within the high-grade Gray Lead vein. We now eagerly await our Phase II drill results, the bulk of our exploration program, which predominately targets new gold-in-soil and rock anomalies that have high potential for discovery."

Figure 1: Visible gold (circled in white) at the margin of a massive quartz-stibnite vein in hole TBDD21-001 at 82.9m downhole.

Table 1: Highlight drill intercepts from Phase I oriented core diamond drilling at the Tibbs Project (TBDD21-001 to TBDD21-007)

Hole ID	Zone	From (m)	To (m)	Width (m)*	Grade (g/t Au)
TBDD21-001	Michigan	78	84.12	6.12	7.69
inc.		82.9	84.12	1.22	33.92
TBDD21-001	Michigan	121	129	8	1.07
TBDD21-002	Michigan	23	27	4	1.21
TBDD21-002	Michigan	131	136	5	1.81
TBDD21-002	Michigan	163	167	4	1.09
TBDD21-005**	Gray Lead	37.64	40	2.36	5.88
TBDD21-005	Gray Lead	50	54	4	3.65
TBDD21-006	Gray Lead	21	27.89	6.89	5.67
inc.		23.16	25.05	1.89	12.3
TBDD21-007	Gray Lead	19.23	24.38	5.15	12.45
inc.		21.14	22.4	1.26	41.39

*True widths are not known at this time. All widths reported are drilled widths. Results are reported with at 0.200 g/t Au cut off with a maximum of 1m of internal dilution. No top cap was applied.

** A 1.83m void was encountered immediately prior to the reported intercept. The void is believed to represent historically mined-out vein material.

A table of drill results from Tectonic's 2021 Phase I diamond drilling can be viewed by [clicking here](#).

Phase I Drilling - Gray Lead and Michigan

The objective of the first phase of the 2021 diamond drilling campaign at Tibbs was to obtain the first-ever oriented drill core from the project to determine the orientation of structures controlling high-grade gold at the Gray Lead and Michigan Zones.

Gray Lead Zone

The Gray Lead Zone was initially drilled in 1998 by the Stone Boy Joint Venture, which discovered the Pogo Gold Mine in 1994. A 2-4m thick quartz vein identical to the Liese Zone at Pogo was intersected at Gray Lead, though the vein was "high-angle" and dipped moderately to steeply to the west, rather than the low-angle dip of veins initially observed at Pogo. Today, both sets of veins have been mined at Pogo and the Pogo geological model has been updated to reflect this (See Pogo Model [here](#)). The Gray Lead vein is one of the best examples of "Pogo-style" vein mineralization in the Goodpaster Mining District, which hosts the high-grade gold Pogo Mine. The Gray Lead Zone is open in all directions and at present contains 250m of mineralized strike to a depth of only 120m vertical. Tectonic is the first company to apply the updated Pogo geological model to Tibbs.

Four oriented core diamond drill holes were completed at the Gray Lead Zone during the first phase of 2021 drilling for a total of 251.76m. Drill holes TBDD21-005, TBDD21-006, and TBDD21-007 were drilled from a single setup in the centre of the target, infilling historical drilling completed by a previous operator with the goal of obtaining structural control on the zone, validating the historical data and obtaining the plunge and dip of the zone for future expansion drilling. These oriented drill holes were drilled with the goal of validating the historical drilling and determining the structural controls, plunge and dip of the high-grade core of the Pogo-style Gray Lead vein for future expansion drilling and details of the host stratigraphy for application in the second phase of 2021 exploratory drilling targeting analogues in the western, gneissic domains of the Property. All three drill holes successfully intersected the Gray Lead vein, with a highlight result of 12.45 g/t Au over 5.15m including 41.39 g/t Au over 1.26m in hole TBDD21-007. Within the quartz vein interval in hole

TBDD21-007, a successful core orientation allowed for measurement of the internal fabric of the vein as defined by sulphide banding, which indicates a potential oblique plunge of high-grade mineralization within the vein.

Hole TBDD21-005 encountered a 1.83m void in the position of the projected intersection of the main Gray Lead vein suspected to be historical underground workings; as such, only the footwall vein was intersected. Hole TBDD21-004 tested the Oscar/Hilltop target, where 2019 drilling returned 2.35 g/t Au over 6.1m, one of the potential splays off the Gray Lead Zone and intersected low gold values associated with disseminated pyrite and arsenopyrite within strongly sericite altered granodiorite.

Michigan Zone

The Michigan Zone consists of a broad, northeast-trending structural corridor within granodiorite. Known high-grade rock grab samples (up to 989.6 g/t Au) define discrete high-grade quartz veins along the margin of the corridor, though the heart of the system was not tested prior to 2019 when Tectonic began exploring the target. Broad intervals of mineralization characterized by disseminated stibnite and pyrite within sericite-altered granodiorite are cut by discrete high-grade quartz veining. No structural control on the veining was previously known, as all drilling was either rotary air blast ("RAB") or non-oriented diamond drill core.

Oriented diamond drilling in 2021 by Tectonic at Michigan consisted of three holes for 551.84m. Holes TBDD21-001 and TBDD21-002 tested the heart of the Michigan structure by drilling at dips of -60 and -55 degrees, respectively, to an azimuth of 170 degrees to best cut interpreted northeast and east-northeast trending features. Both holes intersected intervals of discrete quartz-stibnite-pyrite-arsenopyrite veining with visible gold hosted by strongly sericitized granodiorite with 1-5% disseminated stibnite, carrying lower-tenor gold values. Intervals of quartz veining with visible gold were successfully measured to trend approximately east-west with near-vertical dips, indicating an internal control on mineralization not previously recognized. Michigan remains open in all directions with 275m of drilled mineralized strike to a depth of 250m vertical.

Hole TBDD21-003 stepped 115m west-southwest off the core Michigan trend to test a geophysical anomaly. A high-angle, sericite altered fault structure cutting granodiorite with strong bleaching and minor disseminated stibnite was intersected, though gold values were insignificant.

Next Steps: Phase II Discovery Drilling and Upcoming Results

Tectonic's Phase II discovery diamond drilling campaign focused on testing new, untested ground in the western region of the Tibbs Property at the Wolverine, West Trench, Johnson Saddle, Galosh, and Gray Lead West targets. A total of 23 drill holes for 4,215m were completed in the Phase II program (5 diamond holes for 1,516m, 18 RC holes for 1,699m). The program was designed to test possible low-angle structures identified by the mid-summer TITAN DCIP/MT geophysical survey in highly prospective gneissic rocks. The Phase II program is now complete, with a total of 5,018m drilled during the 2021 season. Assays for the remaining 4,215m of drilling (84% of 2021 program) are pending.

Qualified Person & QA/QC

Tectonic's disclosure of a technical or scientific nature in this press release has been reviewed, verified and approved by Eric Buitenhuis, M.Sc., P.Geo., Tectonic's Vice President Exploration, who serves as a Qualified Person under the definition of National Instrument 43-101.

The analytical work for the 2021 rock sampling program was performed by Bureau Veritas Laboratories ("BV"), an internationally recognized and accredited analytical services provider, which is independent of Tectonic. All diamond core samples were cut in-field using a core saw and submitted to BV's Fairbanks, Alaska facility where they were prepared using procedure PRP70-250 (crush, split, and pulverize 250g to 200 mesh). Pulp samples were then sent to Reno, Nevada and Hermosillo, Mexico, where they underwent analysis for gold by method FA430, a 30-gram Fire Assay fusion with an atomic absorption finish (AAS). Samples returning >10 g/t Au were re-analyzed using method FA530-Au, a 30g Fire Assay with gravimetric finish. Additionally, a 0.25g pulp was sent to the Vancouver, British Columbia lab for a four acid Inductively Coupled Plasma Emission Spectrometer (ICP-ES) analysis for 35 elements using method MA300. Select high-grade gold samples were analyzed using a metallic screen fire assay by method FS652-1Kg, with a 1kg split screened to 106 um and the plus and minus fractions analysed for gold by a 50g fire assay with a gravimetric finish.

Quality Assurance and Quality Control procedures include the insertion of coarse blanks, certified assay standards, and quarter core duplicate samples into the sample string at a rate of approximately 1/10 (10%). Samples are placed in sealed, and security tagged bags and shipped directly to the BV preparation facility in Fairbanks, Alaska.

About Tectonic

[Tectonic Metals Inc.](#) is a mineral exploration company created and operated by an experienced and well-respected technical and financial team with a track record of wealth creation for shareholders. Key members of the Tectonic team were involved with Kaminak Gold Corporation, the Company that raised C\$165 million to fund the acquisition, discovery and advancement of the Coffee Gold Project in the Yukon Territory through to the completion of a bankable feasibility study before selling the multi-million-ounce gold project to Goldcorp Inc. (now Newmont) for C\$520 million in 2016. Tectonic is focused on the acquisition, exploration, discovery and development of mineral resources from district-scale projects in politically stable jurisdictions that have the potential to host world-class orebodies.

To learn more about Tectonic please click [here](#).

On behalf of [Tectonic Metals Inc.](#),

Tony Reda
President and Chief Executive Officer

For further information about Tectonic Metals Inc. or this news release, please visit our website at www.tectonicmetals.com or contact Tony Reda, President & CEO of Tectonic, or Bill Stormont, Investor Relations, at toll-free 1.888.685.8558 or by email at info@tectonicmetals.com.

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