

Trillium Gold Discovers Multiple Gold Anomalies Along Confederation Belt Properties in Red Lake, Ontario

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- SGH surveys completed over seventeen gold targets across Trillium Gold's 39,300 hectare Confederation Belt properties in the Red Lake Mining District
- Several significant gold probability anomalies highlighted over multiple target types
- Follow-up field work in 2022 expected to generate multiple priority drill targets

VANCOUVER, Jan. 11, 2022 - [Trillium Gold Mines Inc.](#) (TSXV: TGM) (OTCQX: TGLDF) (FRA: 0702) ("Trillium Gold" or the "Company") is pleased to report findings from the spatiotemporal geochemical hydrocarbon (SGH) sampling program conducted during the summer on the Company's Confederation Belt properties. The 39,300 hectare contiguous land position lies on a trend with important discoveries currently unfolding in the Red Lake Mining District and represents one of the largest and most prospective land packages assembled. Concurrent with the program, prospecting and sampling was carried out over the area, which results are still pending.

Independent results and interpretations provided by Activation Laboratories Ltd. ("Actlabs"), from the 17 SGH regional scale sampling grids (Figure 1), identified numerous gold pathfinder anomalies (with rating categories ranging from 1-6), establishing the gold exploration potential of the Company's properties. These encouraging anomalies will serve as priority targets for Trillium Gold's second phase of exploration work in the 2022 field season and, together with the sampling and prospecting program carried out concurrently, are expected to generate multiple drill targets.

William Paterson, Trillium Gold's VP of Exploration added, "The newly identified relationships among SGH-generated gold targets, historical gold assays and possible structural and lithological controls, effectively launch Trillium Gold's Confederation Belt properties into a new era in gold exploration. Based on the interpretation to date of the SGH reports, it appears that different styles or generations of processes are potentially responsible for the anomalies, and, therefore, more than one target type is possible for gold exploration on these properties."

Russell Starr, President and CEO of Trillium Gold commented, "Our strategy to consolidate the greenstone belt over the Red Lake area has positioned Trillium Gold as the most dominant exploration company in the Red Lake Mining District today. Several of Trillium's contiguous claim blocks share the same stratigraphy with that of the Dixie LP Fault and extend eastward along the Birch-Uchi belt where other important discoveries are unfolding.

Many of these former VMS-rich districts have proved to be well endowed for gold, and with Red Lake having already produced 29 million ounces of high-grade gold¹ with infrastructure, mills and roads, we believe we are at the nexus of this rapidly developing gold camp."

1 Lewis, S.O., Ravnaas, C., Dorado-Troughton, M., Ferguson, S.A., Pettigrew, T.K., Dorland, G. and Patterson, C. 2021. Report of Activities 2020, Resident Geologist Report, Red Lake Regional Resident Geologist Report: Red Lake and Kenora Districts; Ontario Geological Survey, Open File Report 6371, 95p. [Table 4 on page 84]

The three smaller grids in the southwest of the Joy Block were designed as orientation surveys over known base metal mineralization intersected in historical drilling. A large portion of the Joy-Copperlode Blocks are covered by glacially derived conductive outwash and deglaciation sediments (not locally derived) and despite no outcrop identified in these areas, a number of returned anomalies, the western-most two confirming the method over known drill hole results.

Based on a synthesis of previous work reviewed to date by Company geologists, these anomalies appear likely spatially associated with more than one type of control (i.e., late-stage structural, lithological, as well as possible earlier structures (syn-volcanic?), as previously interpreted in historical work). The location of the anomalies is directly on trend with regional faults (as at Great Bear's Dixie Project) and provide a new framework on which to focus gold exploration in the belt and

Several new target areas have also been confirmed where historically very little exploration work has been conducted (e.g., the northern-most anomaly on the Copperlode property, I-anomaly, Figure 1). These new discoveries provide exciting new targets for follow-up work.

On the Copperlode West block, the F-anomaly is a highly-rated anomaly cut by a NW-SE trending magnetic lineament (D₂ orientation?) and represents one of the more encouraging targets in the area. Also of high-rating is the I-anomaly which is on the western extension of an EM conductor in an area with no known historical geological, geochemical or geophysical surveys. The J-anomaly was identified as a potential Redox zone by Actlabs, similar to that at the Dixie Hinge and Limb, and was sampled by Great Bear Resources (news release August 1, 2019).

The Block B anomaly is also highly rated and shows parallel responses coincident with a magnetic high trend, and coincident with or flanking a NE trending EM conductor.

The Block 1 anomalies lie within stratigraphy representing the eastern extension of that hosting the copper-molybdenum mineralization near Fredart Lake. The two geochemical signatures appear to be on strike from one another, hosted by iron formation or ferruginous sediments. There has been very little historical work in this area. The Lucky 7 anomaly lies with an EM conductor trend that has been drilled, off-property, intersecting gold values up to 4 g/t over 1.5ft. Grab samples in the drill hole also ran up to 13 g/t gold.

The Block 2 anomaly, among the highest rated by Actlabs, shows a significant number of high contrast peaks over a 100m x 450m area. Actlabs identify it as a segmented nested-halo anomaly coincident to that of the Redox zone. The potential for mineralization here is believed to possibly exist directly below this anomaly.

The Fly-Moth N and S grids serve as extensions to exploration work on known prospective and mineralized trends associated with the past-producing South Bay Mine. There are anomalous gold values in historical litho-geochemical samples in the area around the mine; however, samples further towards the southwest were not assayed for gold. The SGH grids fill in the gaps and successfully highlight new gold anomalies. These anomalies are highly rated and show characteristics of Redox as well.

Here, the controls on processes responsible for the development of these anomalies likely reflect a complex interplay between lithology and structure. There appears to be some, but not exclusive, spatial lithological control locally (e.g., near Triangle Lake) as the anomalies are associated with minor intrusive rocks which themselves were previously interpreted as fault controlled. However, one anomaly coincides directly with a previously mapped rhyolite tuff unit suggesting the possibility of lithology hosted gold.

Equally, the geometry of elevated gold in this package of rocks could be suggestive of syn-volcanic fault-controlled mineralization. At the southern edge of Triangle Lake, historical work identified anomalous gold that coincides with a previously mapped fault. These types of relationships bear investigating for refinement or confirmation of ideas with follow-up exploration work planned for 2022.

The Block 3 anomaly coincides with several important features: a regional-scale fault trace, a major volcanic break (cf. Smith et al, 1980), and a property scale transition from felsic to mafic volcanic rocks. Historical work on the property identified sulphide zones and/or geophysical conductors. The few historical drill holes in the general area, inconsistently sampled for metals and even more infrequently for precious metals, do show elevated copper, zinc and gold in these sulphide horizons.

Conversely, in the direct vicinity of the anomaly, virtually no geochemical work has been performed, and there are only a few known drill holes, the locations of which remain uncertain.

The technical information presented in this news release has been reviewed and approved by William Paterson QP, President of Exploration of Trillium Gold Mines, as defined by NI 43-101.

Visit our website at www.trilliumgold.com.

On behalf of the Board of Directors,
[Trillium Gold Mines Inc.](http://www.trilliumgold.com)

Russell Starr
President, CEO and Director

About Trillium Gold Mines Inc.

[Trillium Gold Mines Inc.](#) is a growth focused company engaged in the business of acquisition, exploration and development of mineral properties located in the Red Lake Mining District of Northern Ontario. As part of its regional-scale consolidation, the Company has assembled the largest prospective land package in and around the Red Lake mining district in proximity to major mines and deposits, as well as the Confederation Lake and Birch-Uchi greenstone belts. Recent examples are the acquisition of the Willis property southwest of and contiguous to the Newman Todd complex, and a definitive agreement for the Company control over a significant portion of the Confederation Lake Greenstone Belt to more than 100 km in length. In addition, the Company has interests in highly prospective properties in Larder Lake, Ontario and the Matagami and Chibougamou areas of Quebec.

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