

Gold Recoveries Increased to Over 80%; Ongoing Metallurgical Work Produces a High-grade Copper, Gold and Silver Concentrate for the Goldstorm Deposit at Treaty Creek

23.04.2025 | [The Newswire](#)

[Teuton Resources Corp.](#) ("Teuton" or "the Company") ("TUO"-TSX-V) ("TFE"- Frankfurt) is pleased to report that Joint Venture ("JV") partner Tudor Gold ("Tudor") has announced an update to ongoing metallurgical testwork on the Goldstorm Gold, Copper and Silver Deposit, located on the Treaty Creek Project situated within the Golden Triangle of Northwestern British Columbia.

Highlights from the recent follow-up metallurgical testing on the Lower CS-600 sub-domain included a significant increase in gold recovery:

- Flotation recoveries and gold extraction within the Lower CS-600 sub-domain totaled up to 85.8% copper, 80.2% gold, and 58.1% silver.
- Flotation testing consistently achieved a high-grade copper concentrate of 30.3% copper, 36.5 g/t gold and 99.8 g/t silver.

In comparison, highlights from the previous metallurgical testing released October 24, 2024 [Teuton Resources release October 25 2024] on the Lower CS-600 sub-domain included:

- Flotation recoveries within the Lower CS-600 sub-domain totaled up to 88.1% copper, 63.8% gold, and 51.3% silver.
- Flotation testing confirmed that a high-grade copper concentrate with significant quantities of gold can be produced from the Lower CS600 sub-domain, that exceeds 29% copper with significant gold and silver grades of 33 g/t and 96 g/t, respectively.

Commenting on the results, Ken Konkin, President & CEO of Tudor Gold stated, "We are very pleased with our second set of flotation test results obtained from the lower portion of the CS-600 Domain (CS-600L). We estimate more than 50% of the CS-600 Domain is located within the lower portion (the CS-600L sub-domain). These latest results compared favorably with the first locked cycle test we announced on October 24, 2024. With a simple rougher-cleaner flotation process we are consistently able to produce an exceptionally clean, high-grade copper/gold concentrate with excellent metal recoveries and, significantly, we were able to recover more gold during the most recent metallurgical work with an additional leaching step. We conducted testing on the flotation tailings and pyrite concentrates by simply leaching these with cyanide. This added a substantial amount of gold, which increased the combined gold recovery to just over 80%. Our metallurgical team believes that continued fine-tuning of the process may continue to yield higher recoveries. Several tests demonstrated that higher gold recoveries were associated with finer grinds. These reported recoveries utilized a grind size of -75 microns. The CS-600L sub-domain is located in the same area that hosts the newly discovered Supercell-1 (SC-1) high-grade gold complex. Our technical team is currently completing elements of our next permit application to include the construction of an exploration ramp designed to intersect the area immediately adjacent to the CS-600 Domain and directly above the newly discovered SC-1 high-grade gold structures. The proposal is to construct a three-kilometer-long exploration ramp collared from our Lower Camp area that will allow us to more efficiently drill test the SC-1 complex. This is an important aspect of our Treaty Creek Project, as the added possibility of defining a high-grade, multi-million-ounce gold deposit would greatly enhance the economic potential of the project, since it would provide us with a much smaller Capex target to start the mine process."

The follow-up flotation program on the Lower CS-600 sub-domain focused on optimizing gold recovery. In

addition to using the typical copper flowsheet to produce the saleable copper concentrate, cyanide leach of the flotation tails was investigated. Additionally, evaluation of a sequential copper-pyrite flowsheet was conducted, and cyanide leach of the pyrite concentrate at various grind sizes carried out. Further testwork to investigate the upside potential of gravity concentration as well as optimization of flotation and leach conditions has been recommended to further improve copper and gold recoveries.

Remaining samples from the original PJ-5434 and PJ-5473 CS600L testwork were used to further advance this gold optimization testwork. To maximize material, the remaining samples were blended from the two previous testwork campaigns and therefore cannot be taken as a direct comparison to the locked cycle testwork, however, provide a close comparison for discussion.

GOLDSTORM DEPOSIT - Viewing Southwest (220°/-10°)

[Click Image To View Full Size](#)

Metallurgical Test Work and Results:

Initial metallurgical testing carried out at Blue Coast Research, under the supervision of Fuse Advisors Inc. continued to demonstrate that a high-grade copper/gold concentrate could be produced from the Lower CS-600L domain along with increased gold recoveries through further processing of the flotation tails.

The following approaches to improving gold recovery were conducted:

- Optimization of copper and sequential copper-pyrite flotation circuit for gold;
- Evaluation of cyanide leach on the copper rougher flotation tails for gold extraction;
- Evaluation of cyanide leach on the pyrite concentrate produced from sequential copper/pyrite flotation

Flotation Optimization:

A number of batch roughers tests were carried out to understand if gold recovery could be improved in the copper roughers or through sequential pyrite flotation. Further cleaner tests were conducted to understand the impact downstream. A summary of the tests completed can be found in Table 1.

- F2/F3/F7 - Optimize gold recovery into the pyrite concentrate by investigating some of the following parameters: Collector dosage, flotation time, copper sulphate addition
- F4 - Investigate the impacts of floating more pyrite into the copper concentrate.
 - Natural pH in the rougher circuit, collector dosage
- F6/F8 - Cleaner tests to investigate how pulling additional pyrite into the rougher concentrate effects gold and copper cleaning

[Click Image To View Full Size](#)

Table 1 - Source: Fuse Advisors Inc. (2025)

Initial results indicated there was notable variability in the copper circuit gold recovery, however, the pyrite circuit was consistent at recovering 87% gold to copper rougher and pyrite rougher. The bulk copper rougher at a natural pH was able to achieve the same 87% gold recovery, however, had negative implications in the

cleaning circuit, resulting in reduced overall copper and gold recoveries.

Copper Rougher Flotation Tails Leach:

The copper rougher flotation tails leach flowsheet follows a typical copper flotation circuit configuration, with standard copper flotation reagents, as seen in Figure 1. The batch flotation tests achieved recoveries of 85.8% copper, 66.3% gold, and 58.1% silver into a concentrate with grade 30.3% copper, 36.5 g/t gold.

The copper rougher flotation tails were subjected to cyanide leach testwork, resulting in 53% gold extraction. The flotation rougher tailings contained 26% of the total gold, yielding a total gold extraction of 13.9%. The combined gold flotation recovery plus cyanide extraction totaled 80.2%.

Proposed Flowsheet - Copper Rougher Flotation Tails Leach:

Figure 1 - Source: Fuse Advisors Inc. (2025)

Copper-Pyrite Sequential Flotation/Pyrite Concentrate Leach:

An additional sequential copper/pyrite flowsheet was evaluated to recover additional gold from a pyrite concentrate, shown in Figure 2. Numerous tests were performed which demonstrated an average of 15-20% gold recovery to the pyrite concentrate. The pyrite concentrate was reground to 10 microns and subjected to cyanide leach, extracting 42-48% gold. This provided an additional gold extraction of 7-8% for a total gold recovery and extraction of 67-71%.

Proposed Flowsheet - Copper-Pyrite Sequential Flotation/Pyrite Concentrate Leach:

Figure 2 - Source: Fuse Advisors Inc. (2025)

Table 2 - Source: Fuse Advisors Inc. (2025)

Results of the rougher tails and pyrite concentrate tests are summarized in Table 2. This preliminary testwork has highlighted the ability to improve gold recovery in the CS-600L sub-domain and shows notable gold recovery improvements from previous testwork.

Tudor Gold also announces that the Company was notified by Fuse Advisors of an incorrect table included in the February 27, 2025 press release regarding Locked Cycle Metallurgical Test Work and Results [The incorrect table was also included in a Teuton news release dated Feb. 27, 2025]. This has since been corrected in the version of the press release available on the Tudor Gold website, with the accurate table provided below.

[Click Image To View Full Size](#)

QA/QP

The metallurgical program was carried out by Blue Coast Research of Nanaimo, B.C., selected to conduct further mineralogical assessment of the Goldstorm sample material. The metallurgical and mineralogical work was conducted under the supervision of Travis O'Farrell, P. Eng of Fuse Advisors Inc., a Qualified Person as defined by NI 43-101. Mr. O'Farrell has reviewed the April 22, 2025 news release by Tudor Gold and agreed to its contents. Standard QA/QC sampling procedures are maintained by SGS and Blue Coast to ensure accurate and representative testing.

Ken Konkin, P.Geo, President and CEO, Tudor Gold, is the Qualified Person, as defined by National

Instrument 43-101, responsible for the Project. Mr. Konkin has reviewed, verified, and approved the scientific and technical information in the Tudor Gold news release dated April 22, 2025.

Technical information as presented in this news release by Teuton Resources is consistent with that published in the Tudor Gold release of April 22, 2025. D. Cremonese, P. Eng., is the Qualified Person for Teuton Resources; as President and CEO of Teuton he is not independent of the Company. Mr. Cremonese has not verified the scientific and technical information in the Tudor Gold release of April 22, 2025.

About Treaty Creek

Teuton was the original staker of the Treaty Creek property, host to the large Goldstorm deposit, assembling the core land position in 1984-5. It presently holds a 20% carried interest in the Treaty Creek Project (Tudor Gold is responsible for paying all exploration costs up until such time as a production decision is made and owns a 60% interest; American Creek Resources owns the remaining 20% interest, also carried). Additionally, Teuton owns a 0.98% Net Smelter Royalty in the Goldstorm deposit area as well as in the northern portion of the Perfectstorm zone; within the southern portion of the Perfectstorm zone, Teuton owns a 0.49% NSR with an option to increase that to 1.49% by paying \$1 million to the current owner. It also owns numerous additional royalty interests within the Sulphurets Hydrothermal system on formerly 100%-owned properties such as the King Tut, Tuck, High North, Orion, Delta and Fairweather properties (King Tut and Tuck now owned by Newmont Mining; High North, Orion, Delta and Fairweather properties now owned

by Goldstorm Metals).

The Treaty Creek Project not only contains the Goldstorm Deposit (a large gold-copper porphyry system) it also hosts several other prospective zones of mineralization lying along a north-northeast trending axis centred around the Sulphurets thrust fault. This thrust fault is spatially related to all of the porphyry deposits on the neighbouring KSM property (owned by Seabridge Gold) as well as the Treaty Creek property. These other zones at Treaty Creek include the Perfect Storm, Calm Before the Storm and the Eureka.

About Teuton

Teuton owns interests in more than twenty-three properties in the prolific "Golden Triangle" area of northwest British Columbia and was one of the first companies to adopt what has since become known as the "prospect generator" model. This model minimizes share equity dilution while at the same time maximizing opportunity. Earnings provided from option payments received, both in cash and in shares of the optionee companies over the past 8 years, has provided Teuton with substantial income.

ON BEHALF OF THE BOARD OF DIRECTORS OF TEUTON RESOURCES:

"Dino Cremonese"

Dino Cremonese, P. Eng.,

President and Chief Executive Officer

For further information, please visit the Company's website at www.teuton.com or contact:

Barry Holmes

Director Corporate Development and Communications

Tel. 778-430-5680

Email: bholmesmba@gmail.com

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

Cautionary Statements regarding Forward-Looking information

Certain statements contained in this press release constitute forward-looking information. These statements relate to future events or future performance. The use of any of the words "could", "intend", "expect", "believe", "will", "projected", "estimated" and similar expressions and statements relating to matters that are not historical facts are intended to identify forward-looking information and are based on the Company's current belief or assumptions as to the outcome and timing of such future events. Actual future results may differ materially.

All statements relating to future plans, objectives or expectations of the Company are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's plans or expectations include risks relating to the actual results of current exploration activities, fluctuating gold prices, possibility of equipment breakdowns and delays, exploration cost overruns, availability of capital and financing, general economic, market or business conditions, regulatory changes, timeliness of government or regulatory approvals and other risks detailed herein and from time to time in the filings made by the Company with securities regulators. The Company expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise except as otherwise required by applicable securities legislation.

The Company expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise except as otherwise required by applicable securities legislation.

Dieser Artikel stammt von [Rohstoff-Welt.de](https://www.rohstoff-welt.de)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/689628--Gold-Recoveries-Increased-to-Over-80Prozent-Ongoing-Metallurgical-Work-Produces-a-High-grade-Copper-Gold->

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer](#)!

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinien](#).