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Assessment Report 2022

# **Confederation Belt Properties 2022 Channel Sampling Report for the Panama Property**

Red Lake Mining Division  
Bluffy Lake Area  
NTS 052K15



Trillium Gold Mines Inc.

25 Jan 2023

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# 1 Introduction

In 2022, Trillium Gold Mines Inc., (TGM) completed a small channel sampling program on two exposed bedrock outcrops. The program was completed by TGM staff between 28 Oct 2022 to 8 Nov 2022. A total of 19 man-day were conducted on this program. A total of 28 channel samples, including standards, were submitted for gold analysis. The sampling program involved the detailed mapping of the outcrop, channeling sampling exposed bedrock outcrops, and photographing the channel and sample material. The channel sample data was gathered and recorded in an Excel spreadsheet, which included the sample ID, azimuth, from and to meterage, length, and rock description. The channel sampling was completed entirely within mining claims 546441 and 546442.

## 2 Property Description

### 2.1 Property Location

The Panama property is located approximately 65 kilometres northeast of Ear Falls, Ontario and approximately 80 kilometres east of Red Lake, Ontario, as the bird flies (Figure 1). The property is accessible by traveling 58 kilometers northeast on the Wenasaga road, turning westbound on Ben Road and then turning northbound on Bob road.

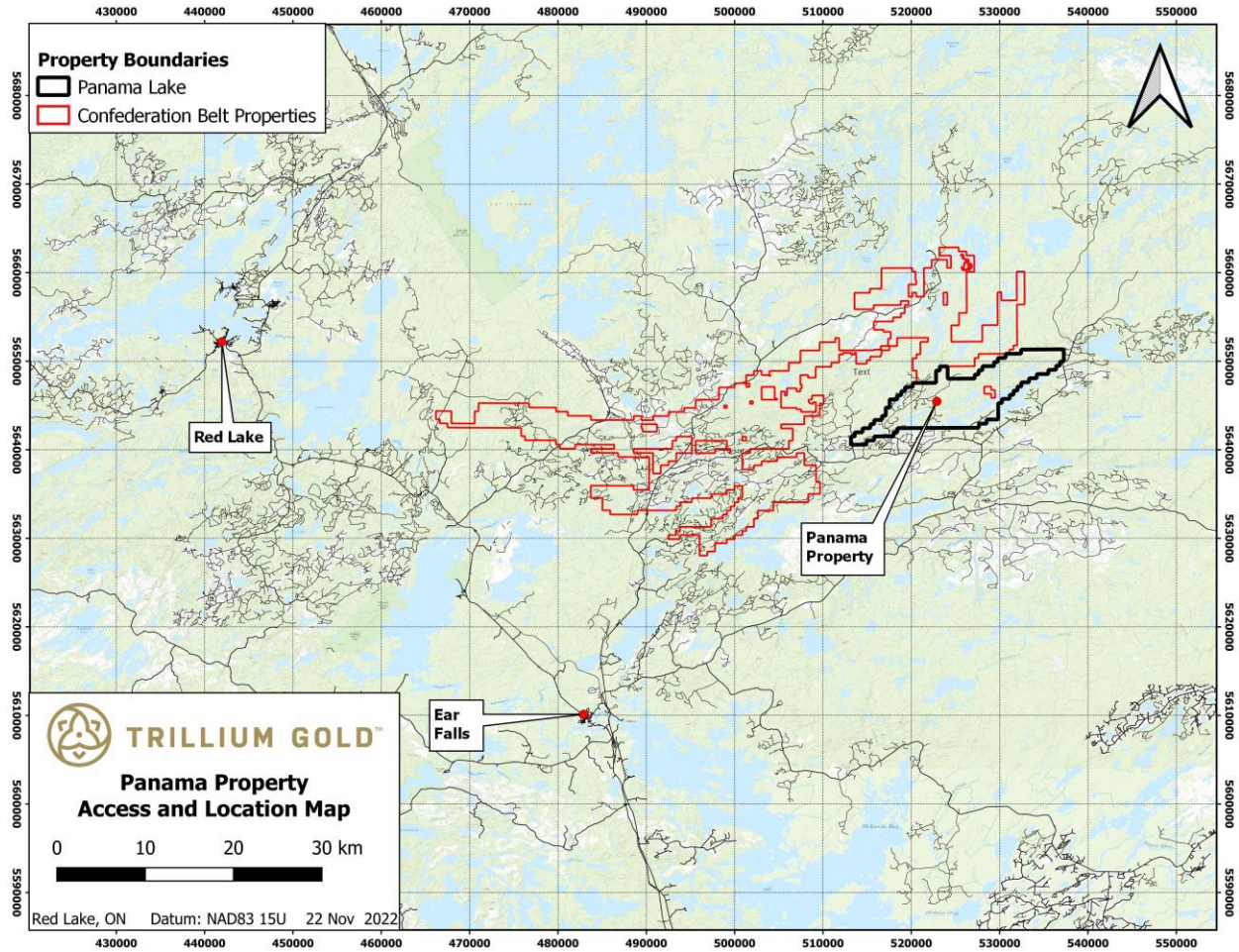


Figure 1: Panama property location map.

## 2.2 Property Tenure

The Panama property consists of 25 mining claims and covers approximately 9989 hectares (Figure 2). A detailed listing of all mining claims can be found on Table 1. All the mining claims are in good standing and active as of 23 Nov 2022.



Table 1: Tenure table for the Panama property.

TENURE_NUM	Mining Cell Type	ISSUE_DATE	ANNIVERSAR	HOLDER
546426	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546431	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546432	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546433	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546434	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546438	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546439	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546440	Multi-cell Mining Claim	2019-03-28	2023-09-28	(100) TRILLIUM GOLD MINES INC
546441	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546442	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546443	Multi-cell Mining Claim	2019-03-28	2023-08-25	(100) TRILLIUM GOLD MINES INC
546444	Multi-cell Mining Claim	2019-03-28	2023-09-28	(100) TRILLIUM GOLD MINES INC
546445	Multi-cell Mining Claim	2019-03-28	2023-09-13	(100) TRILLIUM GOLD MINES INC
546446	Multi-cell Mining Claim	2019-03-28	2023-09-28	(100) TRILLIUM GOLD MINES INC
546447	Multi-cell Mining Claim	2019-03-28	2023-09-28	(100) TRILLIUM GOLD MINES INC
554409	Multi-cell Mining Claim	2019-07-16	2023-07-16	(100) TRILLIUM GOLD MINES INC
556518	Multi-cell Mining Claim	2019-08-29	2023-08-22	(100) TRILLIUM GOLD MINES INC
556519	Multi-cell Mining Claim	2019-08-29	2023-08-22	(100) TRILLIUM GOLD MINES INC
556949	Multi-cell Mining Claim	2019-09-05	2023-09-05	(100) TRILLIUM GOLD MINES INC
562556	Multi-cell Mining Claim	2019-10-22	2023-09-05	(100) TRILLIUM GOLD MINES INC
562557	Multi-cell Mining Claim	2019-10-22	2023-09-05	(100) TRILLIUM GOLD MINES INC
562558	Multi-cell Mining Claim	2019-10-22	2023-09-05	(100) TRILLIUM GOLD MINES INC
622913	Multi-cell Mining Claim	2020-12-07	2023-03-04	(100) TRILLIUM GOLD MINES INC
622914	Multi-cell Mining Claim	2020-12-07	2023-03-04	(100) TRILLIUM GOLD MINES INC
622915	Multi-cell Mining Claim	2020-12-07	2023-03-04	(100) TRILLIUM GOLD MINES INC

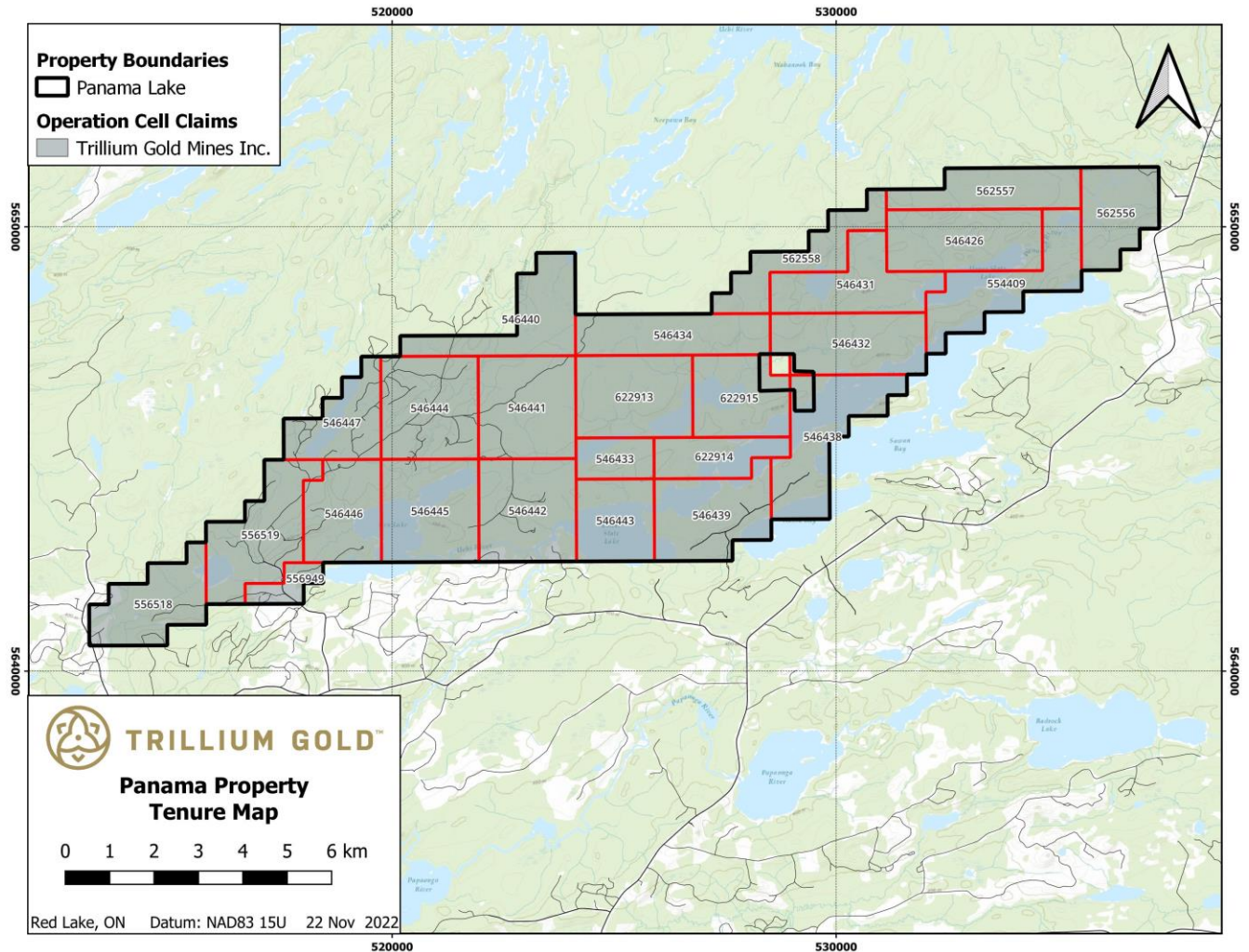


Figure 2: Tenure map of the Panama property.

### 3 Property History

Historically, this area has been primarily explored for volcanogenic massive sulphides. It wasn't until recently (post 2010s) that significant exploration for precious metals began. Most of the exploration work was either geophysical (airborne or ground) and geochemical surveys (prospecting, mapping, and soils). In total, there are 60 assessment files which have been submitted as exploration work within the Panama property. There are four Ontario Mineral Inventories (OMI; formerly mineral deposit inventories) that are located within the Panama Property.

The Panama zone, is categorized as a prospect, is a zone characterized by intense silicification, sericitization and moderate tourmaline enrichment with gold mineralization appearing to be related to a northeast trending shear zone (MDI52K15NE00004). Pyrite is disseminated throughout the zone in amounts ranging from trace up to 0.5% (Assessment report 20000006137). Assays from the 2019 Benton Resources drill program included the following: PL-19-01: 1.58 g/t Au over 7.6 m, including 2.34

g/t Au over 4.7 m; PL-19-02: 1.23 g/t Au over 6.5 m; PL-19-03: 1.21 g/t Au over 5.8 m including 2.55 g/t Au over 2 m; PL-19-04: 1.07 g/t Au over 5.8 m including 1.67 g/t Au over 2.8 m; PL-19-05B: 0.57 g/t Au over 16.1 m including 2.07 g/t Au over 2 m (Benton Resources March 4, 2019 press release). Gold values from diamond drill holes by Benton indicate that much of the gold mineralization is associated with a highly silicified quartz stringer zone.

The South Slate Lake Cu-Zn-Ag, is categorized as an occurrence, is a zone which intercepted 9.06% Zn, 0.51% Cu and 1.16 g/t Ag over 0.09 m at the contact between felsic volcanic and mafic volcanic rocks (MDI52K15NE00013 and 52K15NE2003). This zone was drilled by four closely spaced historical drill holes which encountered a banded massive sulphide horizon at a vertical depth of 50 m which assayed 1.84% Cu and 5.84% Zn over 0.5 m. Additionally drill results from DDH 8-79 which was drilled 20 m below DDH 3-79 intersected 11.6% Cu, 8.36% Zn, and 3.42 oz/t Ag over 0.25 m. In DDH 1-80, which was drilled 45 m below hole 8-79, encountered 8.70% Cu, 7.05% Zn and 2.17 oz/t Ag over 0.5 m. In DDH 2-80, which was located 100 m east and intersected 0.52% Cu and 1.75% Zn over 0.6 m. This zone was targeting one of the two Pulse EM anomalies identified by Cumberland Resources (52K15NE2003).

The Slate Lake Au zone, categorized as an occurrence, is an area which obtained arsenic-rich quartz carbonate shear grab samples that obtained gold values up to 6.17 g/t Au and was located 270 m north of the 107 gold grains in till anomaly identified by a till survey conducted by the Geological Survey of Canada (MDI52K15NE00005). Drilling by Benton Resources in 2019 returned results of 0.18 g/t Au over 8.4 m from a silicified arsenopyrite-rich, quartz-flooded zone. Likewise, DDH PL-19-09 returned 0.425 g/t Au over 2 m from an altered feldspar porphyry with quartz stringers (±arsenopyrite) and abundant sulphides (Benton Resources March 27, 2019, press release).

The Panama Zn, categorized as a discretionary occurrence, intercepted 1200 ppm Zn, 270 ppm Cu, 61 ppb Au and 1 ppm Ag in graphitic argillites in diamond drill hole 3191-3-81 (52K15NE0026).

A detailed listing of past work history can be viewed in Table 2.

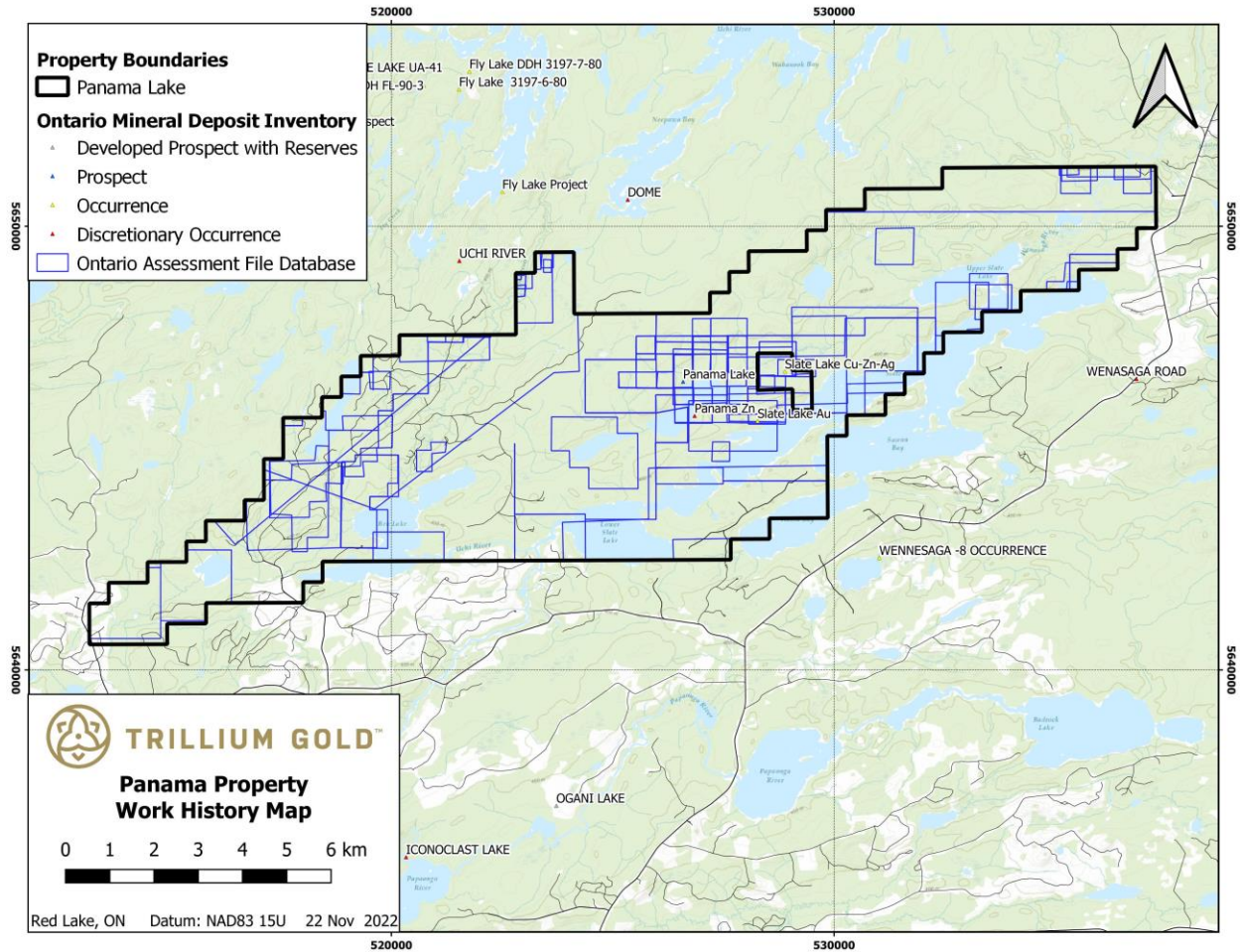


Figure 3: Work history map for the Panama property showing location of Ontario Mineral Deposit Inventories and clipped assessment files to property boundary.

Table 2: Past work filed within the Panama property area.

AFRO_ID	YEAR	PERFORM_FO	WORK_DESCR
52K15NE0005	1970	Dome Expl (Canada) Ltd	Diamond Drilling
52K15NE0006	1969	Selco Exploration Co Ltd	Diamond Drilling
52K15NE0007	1970	H Shlesinger	Self Potential
52K15NE0008	1969	Gunnex Ltd, Selco Exploration Co Ltd	Electromagnetic, Magnetic / Magnetometer Survey, Prospecting By Licence Holder
52K15NE0010	1970	H Shlesinger, Rouyn Expl Ltd	Electromagnetic, Geological Survey / Mapping, Magnetic / Magnetometer Survey
52K15NE0023	1969	Hollinger Mines Ltd	Airborne Electromagnetic, Airborne Magnetometer, Airborne Radiometric
52K15NE0029	1969	Dome Expl (Canada) Ltd	Airborne Electromagnetic
52K15NE0031	1969	Halren Mines Ltd	Electromagnetic, Magnetic / Magnetometer Survey
52K15NE0211	1969	Keevil Mining Group	Electromagnetic, Magnetic / Magnetometer Survey
52N02SW0130	1976	Kerr Addison Mines Ltd	Electromagnetic, Magnetic / Magnetometer Survey, Prospecting By Licence Holder
52K16NE0401	1977	Hudson Bay Expl & Dev Co Ltd	Electromagnetic
52K15NE0024	1978	St Joseph Exploration Ltd	Electromagnetic, Magnetic / Magnetometer Survey
20000005438	1978	St Joseph Expl Ltd	Electromagnetic, Linecutting, Magnetic / Magnetometer Survey
52K15NE0022	1979	St Joseph Exploration Ltd	Geological Survey / Mapping
52K15NE0027	1979	St Joseph Exploration Ltd	Diamond Drilling
52K15NE0208	1980	St Joseph Exploration Ltd	Diamond Drilling

AFRO_ID	YEAR	PERFORM_FO	WORK_DESCR
52K15NE0006	1969	Selco Exploration Co Ltd	Diamond Drilling
52K15NE0008	1969	Gunnex Ltd, Selco Exploration Co Ltd	Electromagnetic, Magnetic / Magnetometer Survey, Prospecting By Licence Holder
52K15NE0023	1969	Hollinger Mines Ltd	Airborne Electromagnetic, Airborne Magnetometer, Airborne Radiometric
52K15NE0029	1969	Dome Expl (Canada) Ltd	Airborne Electromagnetic
52K15NE0031	1969	Halren Mines Ltd	Electromagnetic, Magnetic / Magnetometer Survey
52K15NE0211	1969	Keevil Mining Group	Electromagnetic, Magnetic / Magnetometer Survey
52K15NE0005	1970	Dome Expl (Canada) Ltd	Diamond Drilling
52K15NE0007	1970	H Shlesinger	Self Potential
52K15NE0010	1970	H Shlesinger, Rouyn Expl Ltd	Electromagnetic, Geological Survey / Mapping, Magnetic / Magnetometer Survey
52N02SW0130	1976	Kerr Addison Mines Ltd	Electromagnetic, Magnetic / Magnetometer Survey, Prospecting By Licence Holder
52K16NE0401	1977	Hudson Bay Expl & Dev Co Ltd	Electromagnetic
20000005438	1978	St Joseph Expl Ltd	Electromagnetic, Linecutting, Magnetic / Magnetometer Survey
52K15NE0024	1978	St Joseph Exploration Ltd	Electromagnetic, Magnetic / Magnetometer Survey
52K15NE0022	1979	St Joseph Exploration Ltd	Geological Survey / Mapping
52K15NE0027	1979	St Joseph Exploration Ltd	Diamond Drilling
52K15NE0028	1980	St Joseph Exploration Ltd	Diamond Drilling
52K15NE0208	1980	St Joseph Exploration Ltd	Diamond Drilling
52K15NE0026	1981	Sulpetro Minerals Ltd	Diamond Drilling
52K15NE0210	1981	Sulpetro Minerals Ltd	Diamond Drilling
20000005437	1984	Getty Canadian Metals Ltd	Assaying and Analyses, Bedrock Trenching, Geochemical, Geological Survey / Mapping, Linecutting
52N01SW0001	1984	Getty Canadian Metals Ltd	Electromagnetic, Magnetic / Magnetometer Survey
52N02SE0026	1984	Getty Canadian Metals Ltd	Assaying and Analyses, Miscellaneous Compilation and Interpretation
20000005452	1987	Dome Expl (Canada) Ltd	Electromagnetic, Linecutting, Magnetic / Magnetometer Survey
52K15NE0016	1987	Noranda Exploration Co	Assaying and Analyses, Electromagnetic Very Low Frequency, Geochemical, Geological Survey / Mapping, Magnetic / Magnetometer Survey
52K14NE0003	1988	Noranda Exploration Co	Airborne Electromagnetic, Airborne Magnetometer
52K15NE0001	1988	Placer Dome Ltd	Electromagnetic Very Low Frequency, Magnetic / Magnetometer Survey
52K15NE0015	1988	Noranda Exploration Co	Assaying and Analyses, Diamond Drilling
52K15NE0015	1988	Noranda Exploration Co	Assaying and Analyses, Diamond Drilling
52K15NE0018	1988	Noranda Exploration Co	Diamond Drilling
52K15NE0201	1988	Placer Dome Ltd	Airborne Electromagnetic, Magnetic / Magnetometer Survey
52K15NE0014	1989	Noranda Exploration Co	Geochemical, Induced Polarization, Prospecting By Licence Holder
52N01SW0002	1992	J Williamson	Assaying and Analyses, Bedrock Trenching, Overburden Stripping
52N02SE0600	1992	Rio Algom Exploration Inc	Electromagnetic, Geochemical, Geological Survey / Mapping
52K15NE0004	1994	Cumberland Resources Ltd	Compilation and Interpretation - Geology, Geochemical, Geological Survey / Mapping
52K15NE0004	1994	Cumberland Resources Ltd	Compilation and Interpretation - Geology, Geochemical, Geological Survey / Mapping
52K15NE2003	1994	Cumberland Resources Ltd	Geological Survey / Mapping, Other Geotechnical
52K15NE0003	1995	Cumberland Resources Ltd	Electromagnetic, Open Cutting
52N02NE0005	1995	Cumberland Resources Ltd	Electromagnetic
52K15NE0012	1996	Cumberland Resources Ltd	Assaying and Analyses, Diamond Drilling, Downhole Geophysics
52K15NE2001	2002	Jonpol Explorations Ltd	Assaying and Analyses, Geochemical, Geological Survey / Mapping, Linecutting
20000002929	2008	North American Uranium Corp	Linecutting, Magnetic / Magnetometer Survey
20000004697	2009	Amador Gold Corp, Perry Vern English	Assaying and Analyses, Diamond Drilling
20000006045	2010	North American Uranium Corp	Induced Polarization
20000006759	2011	Mainstream Minerals Corp	Assaying and Analyses, Geochemical
20000008490	2013	Goldcorp Canada Ltd, Goldcorp Inc	Magnetic / Magnetometer Survey
20000017017	2019	Benton Resources Inc	Diamond Drilling
20000019021	2019	Benton Resources Inc	Airborne Magnetometer
20000019150	2019	Benton Resources Inc	Airborne Magnetometer, Compilation and Interpretation - Airborne Geophysics

AFRO_ID	YEAR	PERFORM_FO	WORK_DESCR
20000020137	2019	St Anthony Gold Corp	Assaying and Analyses, Prospecting By Licence Holder, Rock Sampling
20000019619	2020	Benton Resources Inc, Maxtech Venture Inc	Assaying and Analyses, Diamond Drilling, Geological Survey / Mapping
20000019724	2021	Trillium Gold Mines Inc	Assaying and Analyses, Soil/Till Sampling
20000019999	2021	Kenorland Minerals North America Ltd	Air Photo and Remote Imagery Interpretations, Airborne Radiometric, Geological Survey / Mapping
52K15NE0200	-		Assaying and Analyses
52K15NE0009	1969 - 1970	Armored Mines Ltd	Electromagnetic, Geological Survey / Mapping
52N02SE9207	1991 - 1992	Bhp Minerals Canada Ltd	Compilation and Interpretation - Geochemistry, Compilation and Interpretation - Geology, Electromagnetic, Geochemical, Geological Survey / Mapping, Gravity, Magnetic / Magnetometer Survey, Microscopic Studies, Open Cutting, Prospecting By Licence Holder*
20000004117	2007 - 2008	Amador Gold Corp	Assaying and Analyses, Manual Labour, Overburden Stripping
20000005348	2010 - 2011	Perry English	Assaying and Analyses, Geochemical
20000006137	2010 - 2011	North American Uranium Corp	Assaying and Analyses, Prospecting By Licence Holder
20000008683	2012 - 2013	Goldcorp Canada Ltd, Goldcorp Inc	Assaying and Analyses, Geochemical
20000008222	2013 - 2014	Goldcorp Canada Inc, Goldcorp Inc	Assaying and Analyses, Geochemical, Geological Survey / Mapping

## 4 Regional Geology

Within a regional context, the Panama property is situated in the Northern Caribou Terrane, within the Birch-Uchi greenstone belt (BUGB) of the Uchi Subprovince of the Superior Province in the Canadian Shield (Figure 4). The Uchi Subprovince is an east trending region of metavolcanic rocks and lesser metasediment rocks weaving around granitoid batholiths and plutons. The Uchi Subprovince is bounded to the north by the granitoid dominant Berens River Subprovince, and to the south by the sediment dominant English River Subprovince. The Uchi and English River Subprovince boundary is marked by the Long-legged Lake, Pakwash Lake, and Sydney Lake-St. Joseph Fault, a cataclastic zone that extends over 150 kilometers east of the Manitoba Ontario border (Figure 4) while the northern boundary is gradational with the Berens River Subprovince (Breaks, Bond, & Westernman, 1993).

The supracrustal rocks of the Uchi Subprovince are informally subdivided into several greenstone belts. The Uchi Subprovince is volumetrically dominated by thick sequences of basaltic flows, as in the older Balmer assemblage (2964-2992 Ma) of the Red Lake greenstone belt (RLGB), and mafic to felsic volcanic cycles dominated bimodal volcanism as in the younger Confederation assemblage of the Birch-Uchi greenstone belt (2733-2748 Ma; (Corfu & Wallace, 1986). Komatiitic volcanic rocks are rare and mostly occur within older sequences (>2900 Ma) in the western side of the Uchi Subprovince.

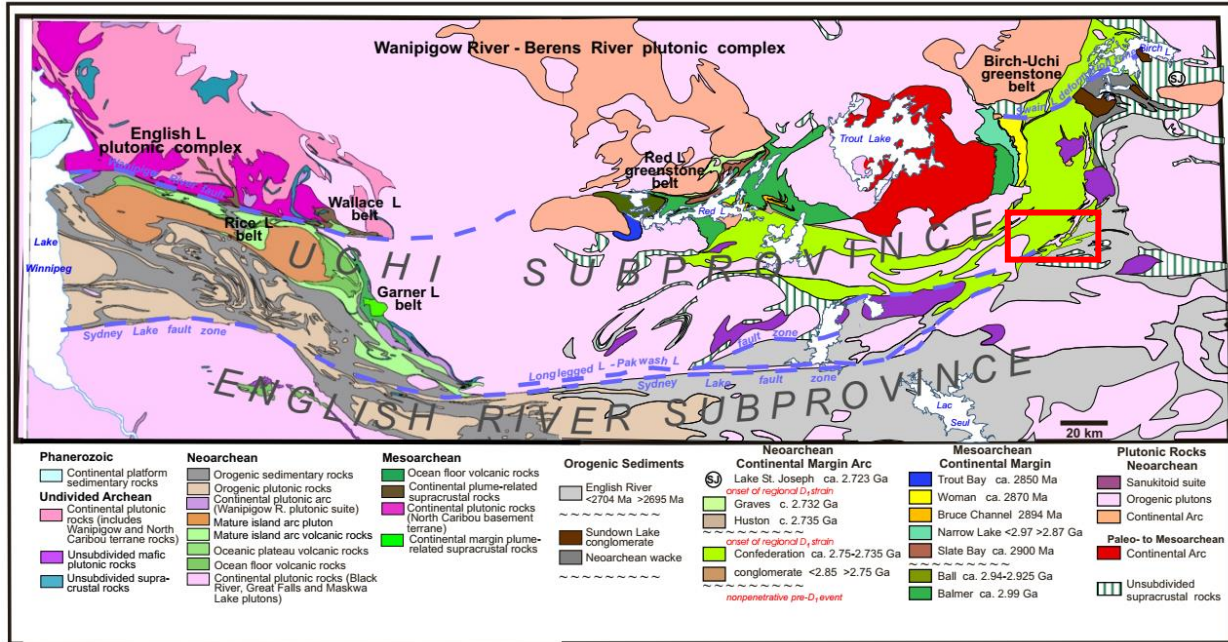


Figure 4: Major tectonostratigraphic assemblages and tectonic affinities assigned to volcanic, sedimentary, and plutonic rocks of the Western Uchi Subprovince and adjacent English River Subprovince (Lemkow, et al., 2006). The Panama property area is located within the red box.

### 5 Property Geology, Mineralization and Structures

The Panama property is overlain by mafic volcanic, mafic intrusive, felsic volcanic, clastic and chemical metasedimentary rocks (Figure 5). The Panama property geology trends northeast generally and is subjected to two phases of compressional deformation. The property is dominantly underlain by mafic volcanic rocks characterized by pillows, tuffs, and flows across much of the center and west portions of the property. In the west, felsic volcanic tuff units trend southwest from the Fly Lake and occurs along the western boundary of the Panama property. Additionally, fine grained felsic volcanic rhyolites occur mid-section within the Panama property and trend northeast towards the northeastern boundary. Fine to coarse clastic and chemical metasediments characterized as highly folded argillites, banded iron formations, sandstones and conglomerates occur immediate south of the Panama Lake Fault and are ubiquitous along the south shore of Slate Lake. Lastly, there is a mafic intrusive unit that trends parallel northeast with the other units and is in the center north portion of the Panama property and is characterized as gabbros.

The D1 deformation is characterized by northeast strike of the rock units and axial traces of northeast trending semi-horizontal anticlines and synclines (Fyon & Lane, 1986). While D2 deformation is characterized by east-northeast to east trending, moderate to steeply south-dipping foliations. The strong development of fabric, foliation and shearing along the Panama Lake Fault and the property scale folding near the Panama zone also characterizes the later D2 deformation within the Panama property (Figure 5). The Panama Lake Fault is characterized by the development of highly foliated mafic volcanic

rocks that are locally sheared and contain quartz ±carbonate ±tourmaline ±arsenopyrite veins. Intensely folded fine clastic and chemical metasediments immediately south of the Panama Lake Fault preserve the D2 deformational features. The strong development of foliation seen on the Panama Lake Fault is approximately 100-300 m wide and transects the property along a northeast (±east) trend. The gold occurrences identified along the Panama Lake Fault are dominantly contained in highly foliated, locally sheared, quartz ±carbonate ±tourmaline ±arsenopyrite veins.

The Panama fold, identified during geophysical interpretations from (Mueller-Markham, 2019) in assessment file 20000019150 was characterized as S-folds near the Panama zone and possibly represent a zone of weakness and low pressure for fluids to accumulate and precipitate gold. This possibly explains the gold occurrences in the Panama zone being containing dominantly in weakly pyritized, highly silicified zones often characterised by quartz flooding, stringer zones that contain 1-8% pyrite, magnetite 1-5%, ±tourmaline, ±carbonate alteration and veining, and often adjacent to highly deformed (folded and/or sheared) metasedimentary and metavolcanic host rocks.

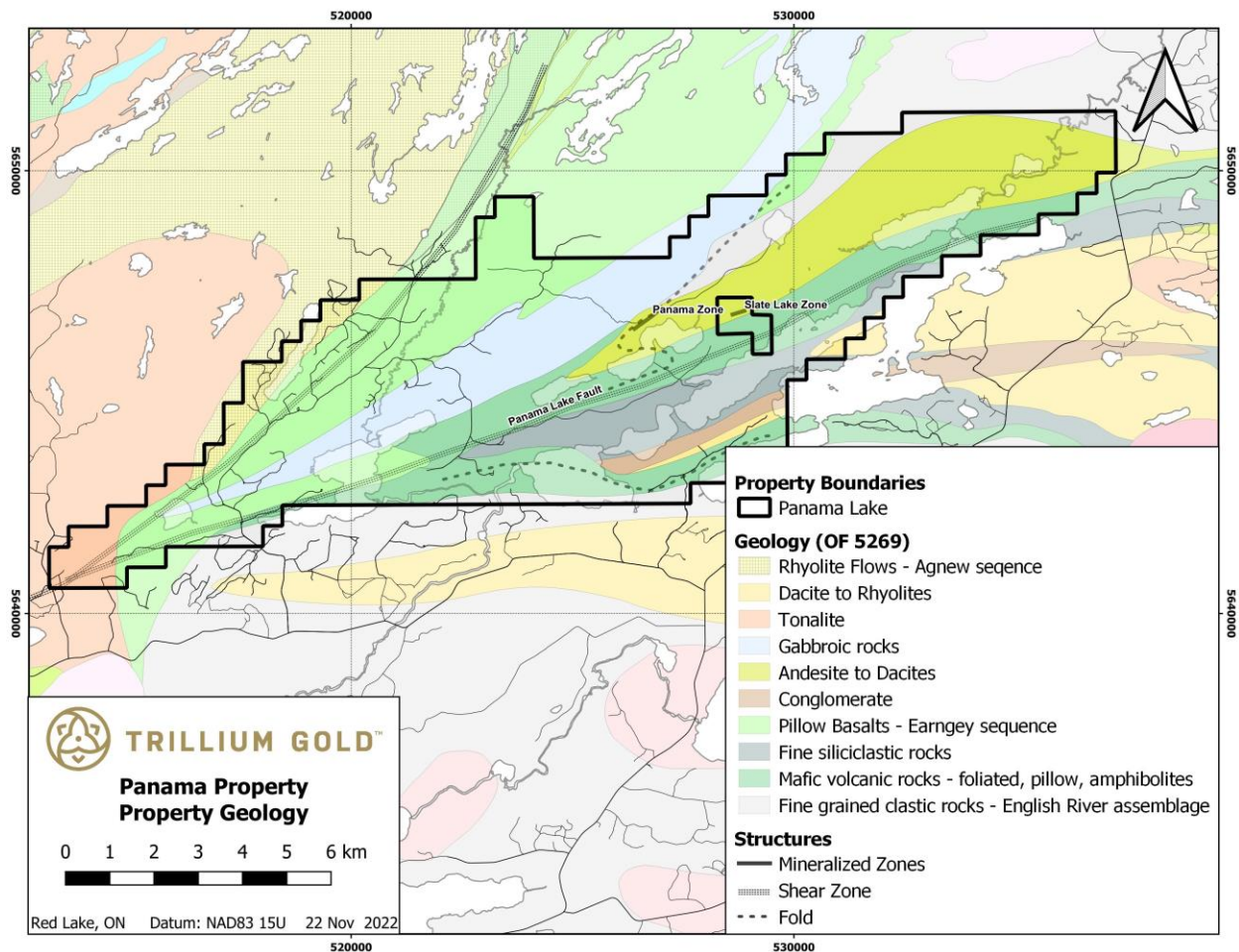




Figure 5: Property geology map of the Panama property. Mineralized zones are characterized by sulphide mineralized that has been identified in multiple diamond drill holes and remain open.

## 6 Channel Sampling Program

Channel sampling was completed in two areas where exposed bedrock was observed at surface. The first outcrop involved the channel sampling of a 2-meter-wide quartz vein. The 2-meter-wide quartz vein was located several hundred meters north from previously collected soil samples by Goldcorp (Mitch, 2014) which obtained elevated gold values (Figure 1, Photo 1). The first outcrop was completed entirely within mining claim 546441. The second outcrop involved the channel sampling of a highly foliated, locally sheared, and arsenopyrite-bearing quartz- carbonate veined mafic volcanics (Figure 2, Photo 2). This area was originally identified by Trillium during their prospecting campaign in the summer of 2022. The second outcrop was completed entirely within mining claim 546442.

Multiple people were involved in the completion of the channel sampling program between 28 Oct 2022 to 8 Nov 2022, which accumulated 19-man days of work. A daily log of the people involved can be viewed in the table below.

Table 3: Channel sampling daily log for Panama (2022).

Date	Personnel	Property	Group Activity	Daily Activity
28-Oct-22	Samuel, Paul, Holly, Richard	Panama	Channel Sampling Report	Channel sampling Panama, 2 m wide vein outcrop.
29-Oct-22	Samuel, Holly, and Brody (dog)	Panama	Channel Sampling Report	Channel sampling Panama, 2 m wide vein outcrop, clipping out samples, drone photo. Setting up at small shear zone outcrop.
30-Oct-22	Samuel, Holly, and Brody (dog)	Panama	Channel Sampling Report	Channel Sampling Panama, move gear to new site, cleaned and prepared gear for cutting the next day.
31-Oct-22	Samuel, Holly, Paul	Panama	Channel Sampling Report	Channel Sampling Panama, start cutting small shear outcrop. Cut approx. half of the channels on outcrop before blade had to be replaced. Prospected a little off the quad trail and identified more highly foliated and folded mafic volcanic rocks along the same trend as the small shear outcrop.
1-Nov-22	Samuel, Holly,	Panama	Channel Sampling Report	Channel Sampling Panama, finish cutting small shear outcrop, chip out samples and photographed the outcrop.
2-Nov-22	Samuel, Holly, Paul	Panama	Channel Sampling Report	Channel Sampling Panama, finish chipping out samples and made three more cuts. Drone photo outcrop and moved gear out.
3-Nov-22	Samuel	Panama	Channel Sampling Report	Data entry for channel sampling program. Reconcile receipts and cleaned field gear.
8-Nov-22	Samuel, Paul	Panama	Channel Sampling Report	Recovered all remaining gear from Panama that involved channel sampling.

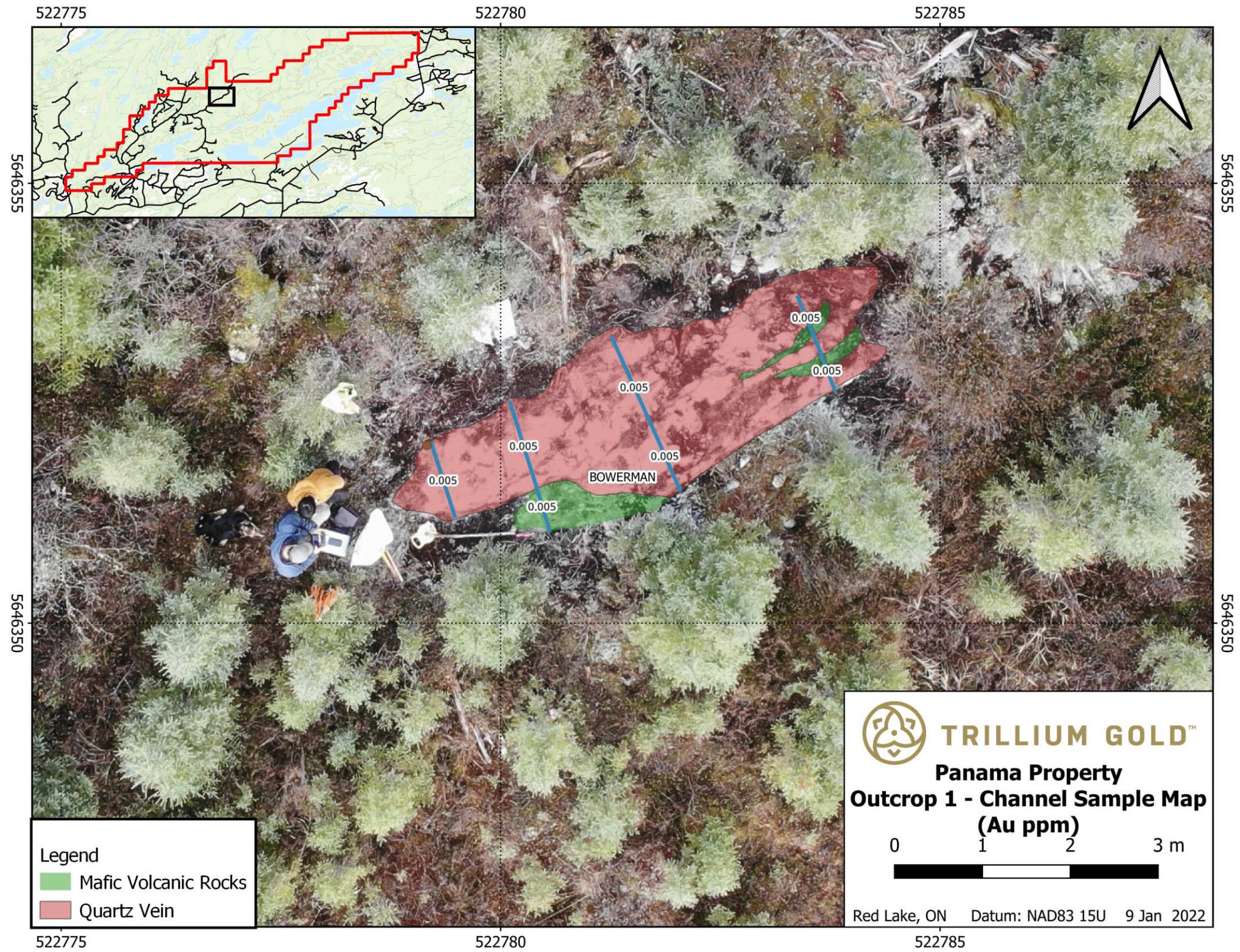


Figure 6: Detailed geology map of Outcrop 1.





Photo 1: Sample B602702, of quartz vein, hosted within mafic volcanic rocks.



Photo 2: Sample B602725 collected within the <30 cm shear zone from outcrop 2. Assay value 0.513 g/t Au.

## 7 Discussion

The 2022 channel sampling program identified a 2-meter-wide quartz vein and highly foliated and locally sheared gold-bearing mafic volcanic rocks. At outcrop 1, the large quartz vein strikes northeast-southwest, parallel to the regional foliation. It is currently unclear if this quartz vein continues under overburden in those directions. No significant gold values were obtained from outcrop 1.

At outcrop 2, highly foliated, locally sheared, mafic volcanic rocks were identified. The gold values obtained from channel sampling appear to be hosted within small shear zones with quartz fe-carbonate arsenopyrite veins. This observation supports the elevated arsenic anomalies from the soil survey completed by Goldcorp (2013-2014). This suggests that arsenic may be a pathfinder element for gold bearing rocks.

## 8 Recommendation

It is recommended that continued prospecting, trenching and channel sampling be completed over the remaining arsenic soil anomalies around outcrop 2 location. The highest arsenic value obtained from the Goldcorp soil is the prime target for trenching, located less than 200 meters south of outcrop 2.

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## 10 Statement of Qualifications

1. I, Samuel Lewis, currently reside at 65 Goldshore Rd, Red Lake, Ontario.
2. I am a graduate of Geological Sciences from University of Manitoba, Winnipeg, Manitoba (B.Sci, 2015).
3. I have been working within the gold exploration industry since 2011 and as a geologist in Yukon, British Columbia, Manitoba and Ontario since 2015. I'm a well experienced exploration geologist that has lead prospecting, mapping and soils teams, experience with diamond drill management and well-versed with GIS, geochemical and 3D geological software.
4. I am a current practicing member of the Professional Geoscientist of Ontario (Membership #3401).
5. I was involved in the planning, supervision, and work outlined in this report and have reviewed the contents of this report.
6. I am not aware of any material fact with respect to the subject matter of this report, titled, "Confederation Belt Properties 2022 Prospecting Report for the Panama Property" or the omissions of which may make this report misleading.

Dated: 25 Jan 2023

Signed

Samuel Lewis

Lith	Struct1	Project	Location	Channel	From	To_m	Length	Sample ID	Sample_Type	Comment	Azimuth	Eastings	Northings	Au_ppm
MU	QV	Panama	Outcrop 1	PanCH1	0	0.9	0.9	B602701	Channel	Across Vein, QV	160	522779.2	5646352	< 0.005
MU	QV	Panama	Outcrop 1	PanCH2	0	0.9	0.9	B602702	Channel	Across Vein, MU	160	522780.1	5646352.5	< 0.005
<b>MU</b>		Panama	Outcrop 1	PanCH2	0.9	1.48	0.58	B602703	Channel	Across Vein, QV	160	522780.4	5646351.5	< 0.005
<b>MU</b>	QV	Panama	Outcrop 1	PanCH3	0	0.67	0.67	B602704	Channel	Across Vein, QV	154	522781.3	5646353.2	< 0.005
<b>MU</b>	QV	Panama	Outcrop 1	PanCH3	0.67	1.63	0.96	B602705	Channel	Across Vein, QV	154	522781.7	5646352.2	< 0.005
<b>MU</b>	QV	Panama	Outcrop 1	PanCH4	0	0.56	0.56	B602706	Channel	Across Vein, QV	158	522783.4	5646353.7	< 0.005
<b>MU</b>	QV	Panama	Outcrop 1	PanCH4	0.56	1.09	0.53	B602707	Channel	Across Vein, QV	158	522783.6	5646353.2	< 0.005
<b>MU</b>		Panama	Outcrop 2	PanCH5	0	0.75	0.75	B602708	Channel	Lt green grey, weak pervasive calcite, tr po-py, wk hematite, minor <1mm biotite	342	522927	5643780	0.006
<b>MU</b>		Panama	Outcrop 2	PanCH5	0.75	1.5	0.75	B602709	Channel	Lt green grey, weak pervasive calcite, tr po-py, wk hematite, minor <1mm biotite	342	522926.8	5643780.7	< 0.005
<b>MU</b>	FOL	Panama	Outcrop 2	PanCH5	1.5	2.25	0.75	B602710	Channel	Lt green grey, weak pervasive calcite, tr po-py, wk hematite, minor <1mm biotite	342	522926.6	5643781.4	0.005
<b>IU</b>	FOL	Panama	Outcrop 2	PanCH5	2.25	2.75	0.5	B602711	Channel	Lt green grey, wkly silicified and moderately foliated, quartz cal carb veins with biotite and tr aspy, wk per cal. More 1-2 mm biotite present, s-c fabric present with tr po-py within cleavage	342	522926.4	5643782.2	0.006
		Panama	Outcrop 2	PanCH5				B602712	Standard	231 Oreas STD	342			0.531
<b>IU</b>	SHR	Panama	Outcrop 2	PanCH5	2.75	3.25	0.5	B602713	Channel	Light brown green, highly foliated rock with fe-carb quartz veins, reddish brown biotite, and 1-3 percent aspy	342	522926.2	5643782.7	0.01
<b>IU</b>	FOL	Panama	Outcrop 2	PanCH5	3.25	3.75	0.5	B602714	Channel	Lt green grey, weak pervasive calcite, tr po-py, wk hematite, minor <1mm biotite	342	522926.1	5643783.1	< 0.005
<b>IU</b>	FOL	Panama	Outcrop 2	PanCH5	3.75	4.5	0.75	B602715	Channel	Lt green grey, weak pervasive calcite, tr po-py, wk hematite, minor <1mm biotite	342	522926	5643783.6	< 0.005
<b>MU</b>	FOL	Panama	Outcrop 2	PanCH5	4.5	5.25	0.75	B602716	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522925.8	5643784.3	< 0.005



<b>MU</b>	FOL	Panama	Outcrop 2	PanCH5	5.25	6	0.75	B602717	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522925.5	5643784.9	< 0.005
<b>MU</b>	FOL	Panama	Outcrop 2	PanCH5	6	6.75	0.75	B602718	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522925.3	5643785.6	< 0.005
<b>MU</b>		Panama	Outcrop 2	PanCH5	6.75	7.5	0.75	B602719	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522925.2	5643786.2	< 0.005
<b>MU</b>		Panama	Outcrop 2	PanCH5	7.5	8.25	0.75	B602720	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522925	5643786.8	< 0.005
<b>MU</b>		Panama	Outcrop 2	PanCH5	8.25	9	0.75	B602721	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522924.8	5643787.4	< 0.005
<b>MU</b>		Panama	Outcrop 2	PanCH5	9	10	1	B602722	Channel	IU-MU, mod-highly foliated, weak pervasive cal tr carbonates veins rarely occurring, foliation decreased northwards away from shear.	342	522924.6	5643788	< 0.005
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH6	0	0.3	0.3	B602723	Channel	Across SHR. Light brown green, highly foliated rock with fe-carb quartz veins, reddish brown biotite, and 1-3 percent aspy	342	522925.1	5643782.5	0.14
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH7	0	0.5	0.5	B602724	Channel	Across SHR. Light brown green, highly foliated and fissile rock, with minor qtz-cal-carb veins	342	522923.4	5643782.1	< 0.005
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH10	0	1	1	B602725	Channel	Along SHR vein, strong fabric, quartz carb-cal veining with 1-3 percent aspy, and hematitic	255	522926	5643782.9	0.513
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH8	0	0.25	0.25	B602726	Channel	Across SHR, light green, highly foliated, qtz cal carb veining, weak biotite and tr po-py, aspy faded away to the east	342	522926.7	5643782.8	0.015
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH9	0	0.25	0.25	B602727	Channel	Across SHR, light green, highly foliated, qtz cal carb veining, weak biotite and tr po-py, aspy faded away to the east	342	522927	5643782.9	< 0.005
<b>MU</b>	SHR	Panama	Outcrop 2	PanCH10	1	1.6	0.6	B602728	Channel	Along SHR vein, strong fabric, quartz carb-cal veining with 1-3 percent aspy, and hematitic	255	522925.2	5643782.7	0.21

522775

522780

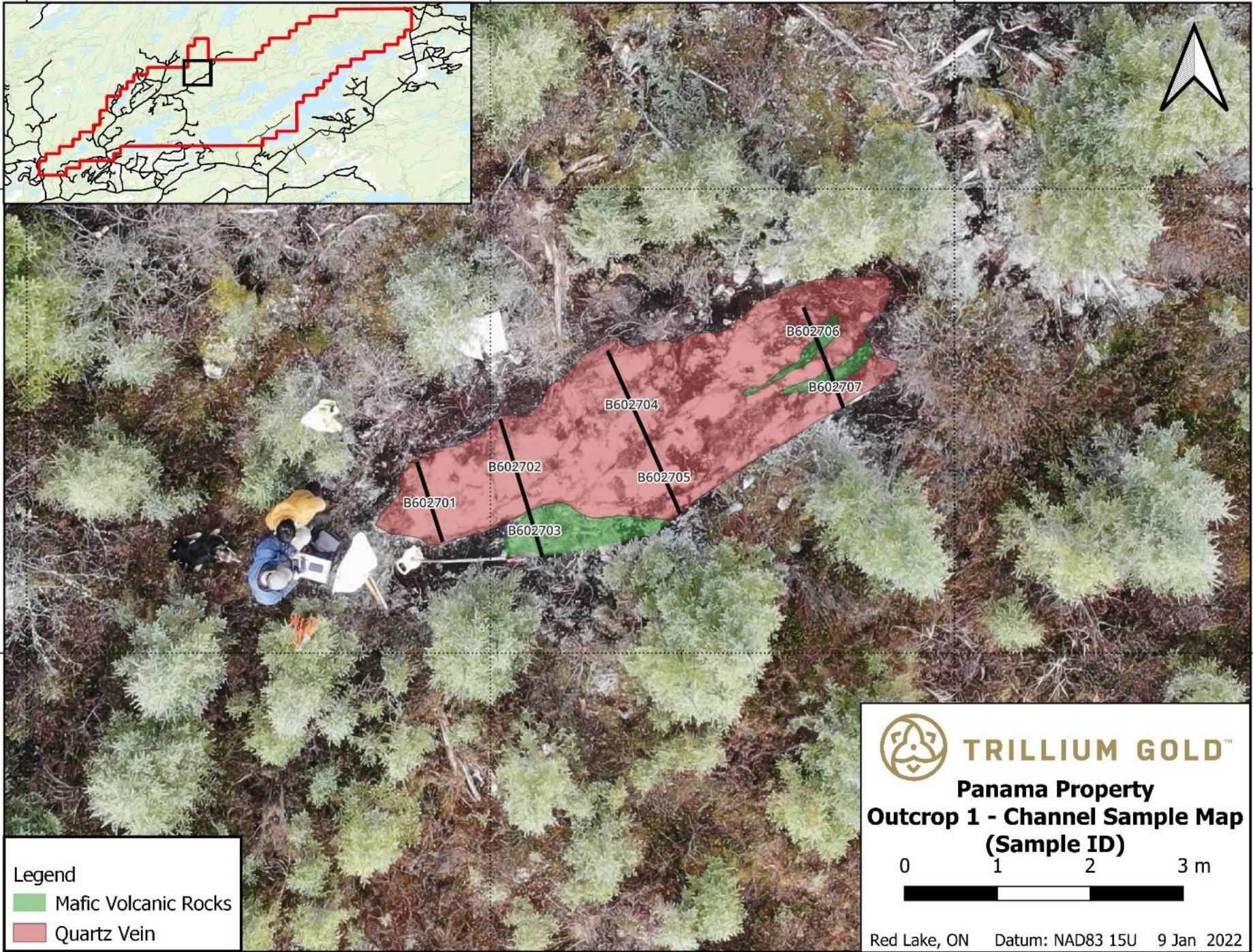
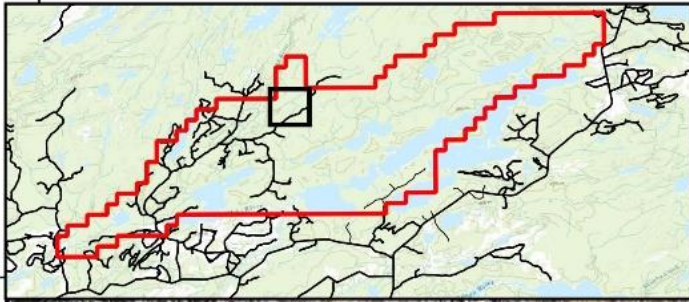
522785

5646355

5646355


5646350


5646350



**Legend**

- Mafic Volcanic Rocks
- Quartz Vein


**TRILLIUM GOLD™**  
**Panama Property**  
**Outcrop 1 - Channel Sample Map**  
**(Sample ID)**

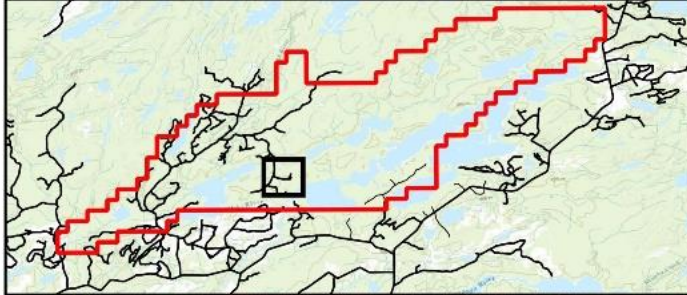
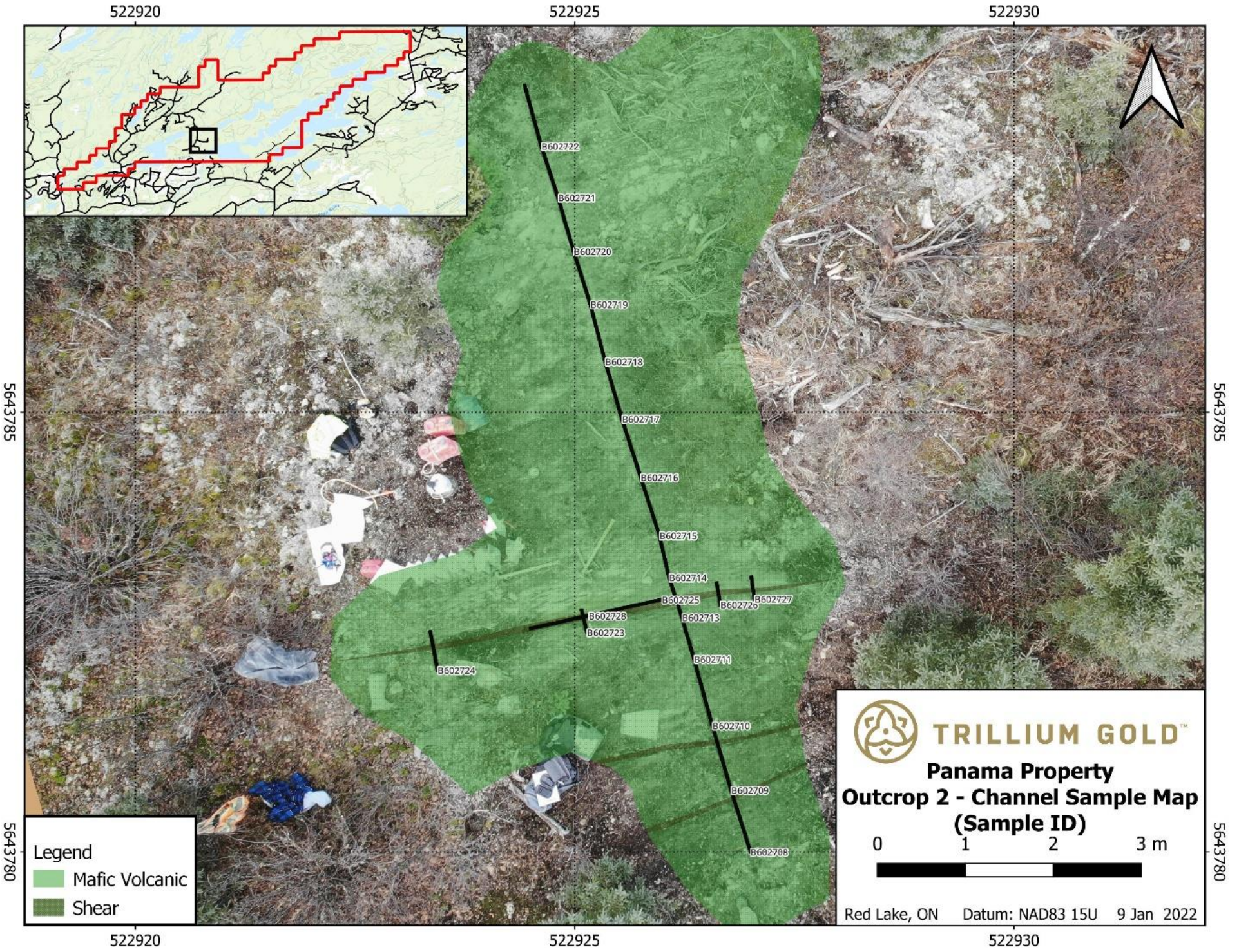
0      1      2      3 m  


Red Lake, ON    Datum: NAD83 15U    9 Jan 2022

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B602722  
 B602721  
 B602720  
 B602719  
 B602718  
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 B602728  
 B602723  
 B602724  
 B602713  
 B602711  
 B602710  
 B602709  
 B602708

**TRILLIUM GOLD™**  
**Panama Property**  
**Outcrop 2 - Channel Sample Map**  
**(Sample ID)**

0 1 2 3 m

Red Lake, ON Datum: NAD83 15U 9 Jan 2022



Report No.: A22-16908
Report Date: 04-Jan-23
Date Submitted: 14-Nov-22
Your Reference: Panama

Trillium Gold Mines Inc.
1055 West Hastings Street, Suite 2250
Vancouver BC V6E 2E9
Canada

ATTN: Elizabeth Longley

CERTIFICATE OF ANALYSIS

30 Rock samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Test description, and Testing Date. Rows include 1A2B-50-(g/m t)-Dryden, QOP AA-Au (Au - Fire Assay AA), and Weight Report in Kg-Dryden, Received and Pulp Weights-Dryden.

REPORT A22-16908

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3



ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Mark Vandergeest

Mark Vandergeest
Quality Control Coordinator

Analyte Symbol	Received Weight	Au	Au
Unit Symbol	Kg	g/mt	
Detection Limit		0.005	
Analysis Method	none	FA-AA	FA-GRA
B602701	3.44	< 0.005	
B602702	4.95	< 0.005	
B602703	3.67	< 0.005	
B602704	4.49	< 0.005	
B602705	5.97	< 0.005	
B602706	2.67	< 0.005	
B602707	3.08	< 0.005	
B602708	1.41	0.006	
B602709	1.24	< 0.005	
B602710	2.84	0.005	
B602711	1.76	0.006	
B602712	0.104	0.531	
B602713	1.41	0.010	
B602714	1.27	< 0.005	
B602715	1.70	< 0.005	
B602716	2.72	< 0.005	
B602717	3.42	< 0.005	
B602718	2.87	< 0.005	
B602719	2.69	< 0.005	
B602720	2.93	< 0.005	
B602721	2.46	< 0.005	
B602722	3.51	< 0.005	
B602723	1.02	0.140	
B602724	1.47	< 0.005	
B602725	3.47	0.513	
B602726	1.27	0.015	
B602727	0.958	< 0.005	
B602728	1.93	0.210	
B689051	2.47	0.062	
B689052	1.27	< 0.005	

Analyte Symbol	Received Weight	Au	Au
Unit Symbol	Kg	g/mt	
Detection Limit		0.005	
Analysis Method	none	FA-AA	FA- GRA
Oreas E1336 (Fire Assay) Meas		0.490	
OREAS L15 Meas		7.34	
B602715 Split PREP DUP		< 0.005	
B602719 Dup		< 0.005	
Method Blank		< 0.005	

<b>Item</b>	<b>Invoice Details</b>	<b>Description</b>	<b>Invoice Total (before tax)</b>	<b>prorata / adjusted</b>
Holly Invoice	contractor invoice #17	2 Field Days	3600	900
Holly Invoice	contractor invocie #16	4 Field Days	3150	1800
Staff -Paul	Salary - Field Work	4 days		2000
Staff - Samuel	Salary - Field Work	8 days		4000
Richard	contractor Invoice #10	1 field day	1750	250
Can Am ATV	2022-01 Panama	8	1100	800
Channel Saw / ATV	Dany Rivard Invoice #56	prorata for 4 days at 125 (both items)	7095	500
Channel Saw / ATV	Dany Rivard Invoice #57	prorata for 4 days at 125 (both items)	5150	500

<b>Total Field Days on Claims</b>	<b>8</b>
<b>Total Field Cost</b>	<b>10750</b>

#### **Associated Costs**

Assay Cost	30 samples	prorata to 28 samples	754	704
Food diem	Holly food diem	per diem 6 days	300	300
Food diem	Richard food diem	per diem 1 day	50	50
Lodging diem	Holly's Lodging	per diem 6 days	300	300
Report Writing	Salary - Report Writing	10-day		5000

<b>Total Associated Cost</b>	<b>6354</b>
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<b>Total Project Cost</b>	<b>17104</b>
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<b>Claims Worked on</b>	<b>Days per claim</b>	<b>Allocated Cost</b>
546441	3	6414
546442	5	10690