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**42A01I**

**REPORT ON PROSPECTING TRAVERSES:  
TECK-BERNHARDT PROPERTY  
TECK & BERNHARDT TOWNSHIPS  
KIRKLAND LAKE AREA, ONTARIO**

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LONDON, ONTARIO  
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ONTARIO**

**January 10, 2022**



Amikougami Lake Waypoint FGFBRA



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## Summary

This report summarizes the results of prospecting traverses on the Teck-Bernhardt Property. The property is 4 kilometres north-northwest of the town of Kirkland Lake, Ontario. It consists of 25 contiguous 1-cell mining claims in Teck and Bernhardt Township's and covers an approximate area of 574.5 hectares. Gold and copper mineralization have been reported within the area of the property. Best historic assays reported from mineralized zones of unknown size include: 0.25 oz Au/ton and 0.195% Cu.

Prospecting on the property occurred over a 5 day period in these areas

June 30, 2020	claim 543351, cell 42A01I209
July 1, 2020	claim 539409, cell 42A01I309
July 2 – 3, 2020	claims 539403 & 539413, cell's 42A01I325 & 42A01I326
October 19, 2021	claims. 543351 & 543349, cell's 42A01I209 & 42A01I229

Work was undertaken by property owners: Robert Dillman and Jim Renaud. Work included 2.46 km of prospecting on land and 4.14 km traversed shoreline prospecting. A total of 16 rock samples were collected from various mineralized zones however, due to complications arising from the Covid-19 pandemic, assay results for 11 samples are only available at this time. The assays for the remaining 5 samples will be reported when available. The best assay received so far is 0.206 ppm Au and was taken from a faulted quartz vein in the Amikougami gold occurrence discovered in 1995 by Eric Marion and Alain Carreau.

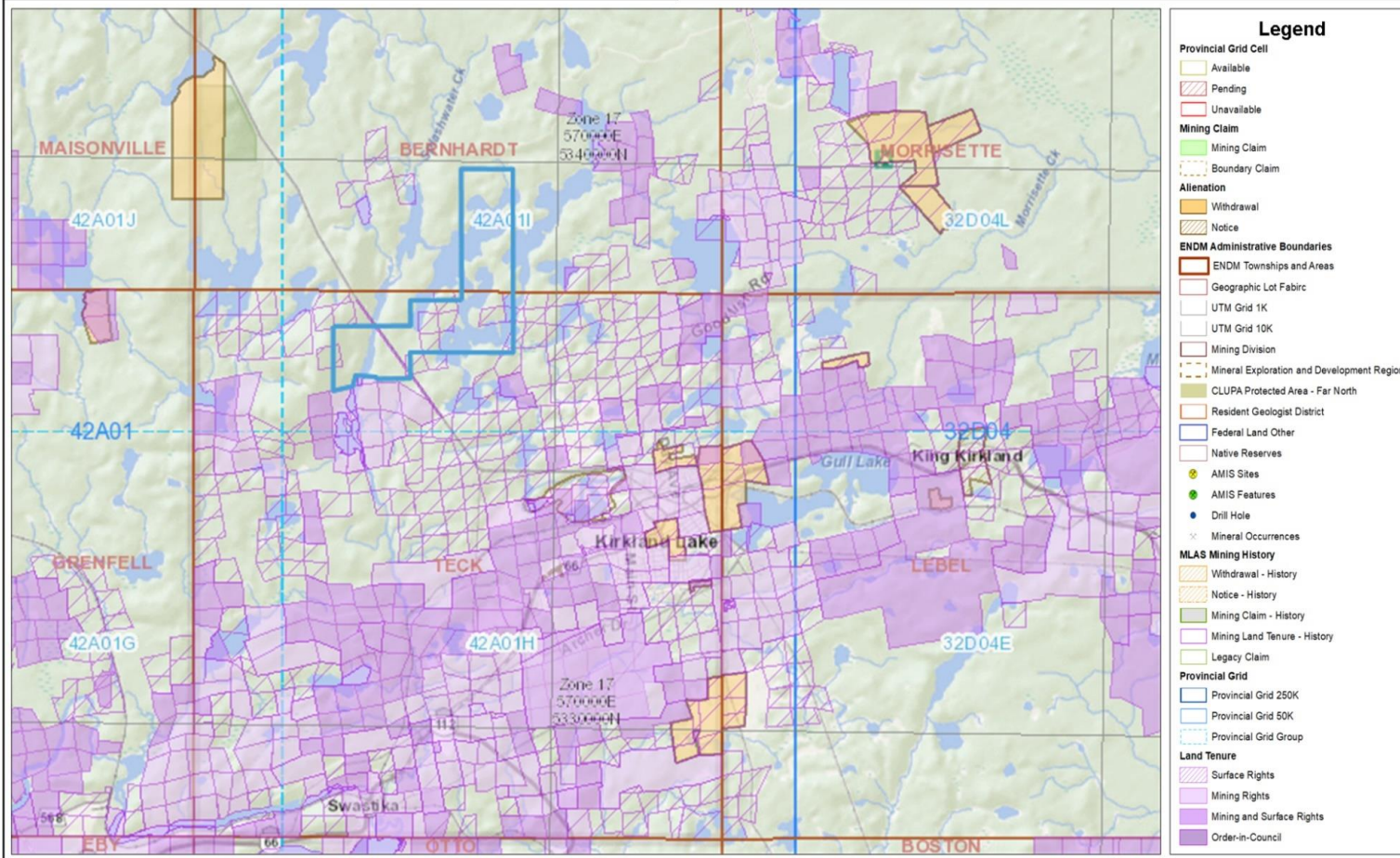
## Location and Access

The Teck-Bernhardt Property is located 4 kilometres north-northwest of the town of Kirkland Lake, Ontario (Figure 1). The property straddles the township boundary between Teck and Bernhardt Township's (Figure 2). The Teck-Bernhardt Property is north and adjacent to properties held by Kirkland Lake Gold Mines Ltd.

The north section of the property is situated on Crown Land. The south section is partially situated on patented surface rights held by Kirkland Lake Gold Mines Ltd. and the Town of Kirkland Lake.

There are no buildings or structures on the property. A hydro transmission line crosses the south section of the property.

Access to the property can be made via several routes. New logging roads have been constructed into the north section of the property and can be accessed by truck and ATV. The logging roads can be reached by taking the Goodfish Road north from the Town of Kirkland Lake. The Lancaster Lake Road intersects with Goodfish Road approximately 3.3 km north of the intersection of Goodfish Road and the road to the Kirkland Lake airport. The southeast section of the property can be accessed by a gravel road and a trail following the hydro transmission line. The hydro line crosses the Goodfish Road approximately 0.5 km north of Kirkland Lake.



### Legend

- Provincial Grid Cell**
  - Available
  - Pending
  - Unavailable
- Mining Claim**
  - Mining Claim
  - Boundary Claim
- Alienation**
  - Withdrawal
  - Notice
- ENDM Administrative Boundaries**
  - ENDM Townships and Areas
  - Geographic Lot Fabric
  - UTM Grid 1K
  - UTM Grid 10K
  - Mining Division
  - Mineral Exploration and Development Region
  - CLUPA Protected Area - Far North
  - Resident Geologist District
  - Federal Land Other
  - Native Reserves
- AMIS Sites**
  - AMIS Sites
  - AMIS Features
  - Drill Hole
  - Mineral Occurrences
- MLAS Mining History**
  - Withdrawal - History
  - Notice - History
  - Mining Claim - History
  - Mining Land Tenure - History
  - Legacy Claim
- Provincial Grid**
  - Provincial Grid 250K
  - Provincial Grid 50K
  - Provincial Grid Group
- Land Tenure**
  - Surface Rights
  - Mining Rights
  - Mining and Surface Rights
  - Order-in-Council

0 4.89 km

Projection: Web Mercator



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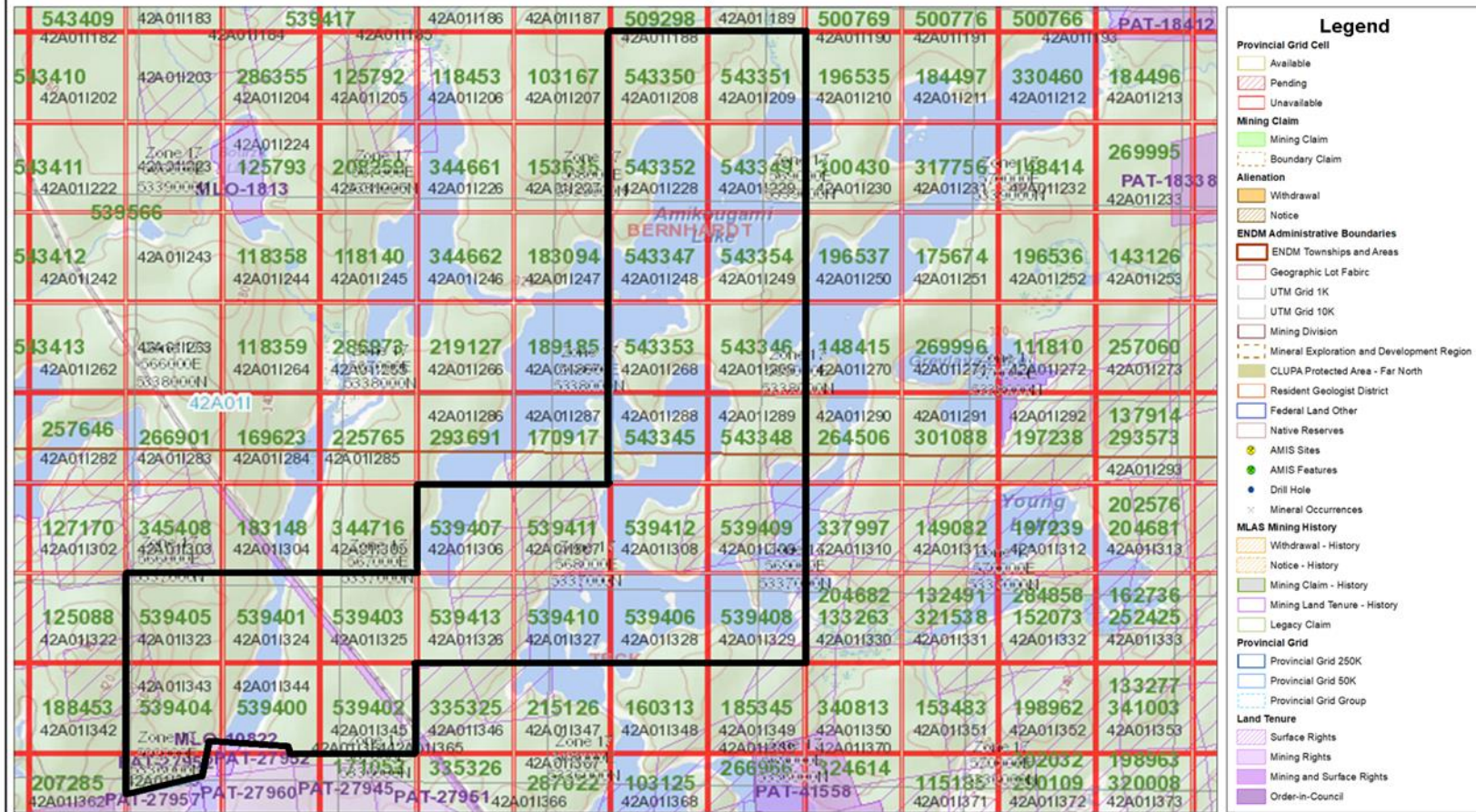
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Figure 2. Claim Map

Notes: **TECK-BERNHARDT PROPERTY**



Projection: Web Mercator



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A boat is the best method to access the entire property. A boat can be launched on Lancaster Lake which is connected to the northeast arm of Amikougami Lake. A boat can be launched also in Amikougami Creek where it crosses the Goldthorpe Road 2.3 km west of Highway 66 and Kirkland Lake however, a portage is required using this route. The property is approximately 8 km north along the creek.

### **Claim Logistics and Location of Work**

The property is comprised of 25 contiguous mining claims covering an approximate area of 574.5 hectares. The claim numbers are listed in Table 1. All the claims are registered to Robert Dillman.

The approximate area traversed and sampled in June 2020 and October 2021 is illustrated in Figure 3.

### **Land Status and Topography**

The Teck-Bernhardt Property is situated entirely on Crown Land. The property is uninhabited. There are no buildings or habitats. Elevation of the property ranges from just between 260m to about 290m. Outcrop exposure is very good and overburden is shallow.

The project area lies within the central Canadian Shield in the central Abitibi geologic subprovince. The region can be generalized as being in the boreal climatic region, characteristically covered by forest, swamps and lakes with relatively little relief.

Relief on the property is less than 35m. Generally, the property can be characterized by large outcrops and thin overburden. The overburden is comprised of till

The climatic conditions are typical for the central Canadian Shield with short, mild summers and long, cold winters. Mean temperatures range from -17°C (0°F) in January, to 18°C (64°F) in July and mean annual precipitation throughout the region ranges from 812 to 876 mm (32-35 inches).

The Teck-Bernhardt property was part of the multi-township “Kirkland Lake Fire 8” forest fire in 2012. Although the fire caused damage to approximately 2577 hectares of land and trees in the area, it resulted in some incredible outcrop exposures on the property.



Figure 3. Location of Work

Notes:

TECK-BERNHARDT  
PROPERTY



0 1 : 40,000 1.35 km

Projection: Web Mercator

 Location of Work

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Table 1.

Claim Logistics: Teck-Bernhardt Property  
 Teck and Bernhardt Twp.'s, Ontario

<u>Claim Number</u>	<u>Cell Number</u>	<u>Township</u>	<u>Anniversary Date</u>	<u>Annual Expenditure</u>
539400	42A01I344	Teck	January 17, 2022	\$400
539401	42A01I324	Teck	January 17, 2022	\$400
539402	42A01I345	Teck	January 17, 2022	\$400
539403	42A01I325	Teck	January 17, 2022	\$400
539404	42A01I343	Teck	January 17, 2022	\$400
539405	42A01I323	Teck	January 17, 2022	\$400
539406	42A01I328	Teck	January 17, 2022	\$400
539407	42A01I306	Teck	January 17, 2022	\$400
539408	42A01I329	Teck	January 17, 2022	\$400
539409	42A01I309	Teck	January 17, 2022	\$400
539410	42A01I327	Teck	January 17, 2022	\$400
539411	42A01I307	Teck	January 17, 2022	\$400
539412	42A01I308	Teck	January 17, 2022	\$400
539413	42A01I326	Teck	January 17, 2022	\$400
539414	42A01I363	Teck	January 17, 2022	\$400
543345	42A01I288	Bernhardt	February 22, 2022	\$400
543346	42A01I269	Bernhardt	February 22, 2022	\$400
543347	42A01I248	Bernhardt	February 22, 2022	\$400
543348	42A01I289	Bernhardt	February 22, 2022	\$400
543349	42A01I229	Bernhardt	February 22, 2022	\$400
543350	42A01I208	Bernhardt	February 22, 2022	\$400
543351	42A01I209	Bernhardt	February 22, 2022	\$400
543352	42A01I228	Bernhardt	February 22, 2022	\$400
543353	42A01I268	Bernhardt	February 22, 2022	\$400
543354	42A01I249	Bernhardt	February 22, 2022	<u>\$400</u>

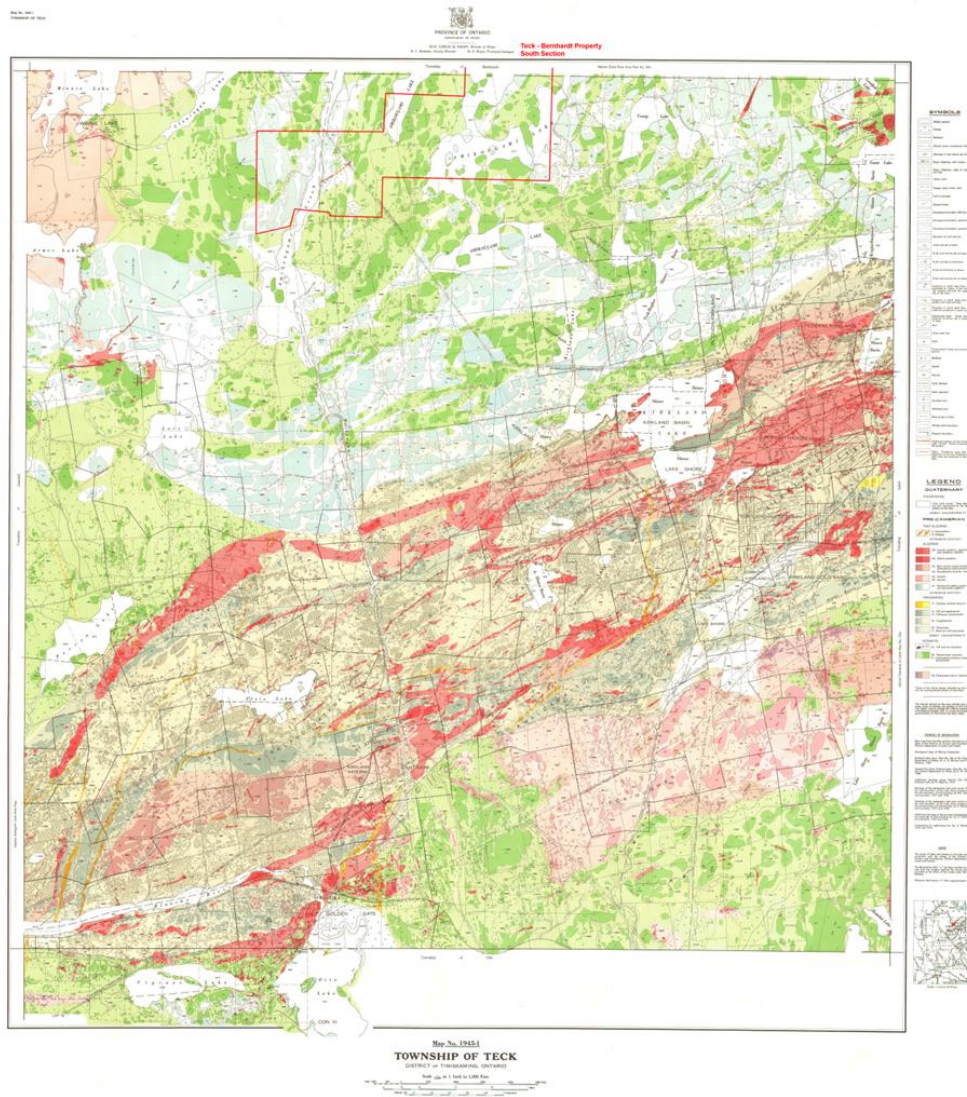
## Regional and Local Geology

The Teck-Bernhardt Property is located in the Kirkland Lake section of the Abitibi Greenstone Belt. The Abitibi Greenstone Belt is part of the Superior Province and extends east-west approximately 600 km from Timmins to Chibougamau. Numerous precious and base metal deposits have been discovered in the Abitibi Greenstone Belt including: Timmins, Kirkland Lake, Harker-Holloway, Rouyn Noranda, Val d'Or and Chibougamau mining camps.

The geology underlying the Teck-Bernhardt property is shown on ODM map 1945-1: Teck Township and OGS Map 2193: Bernhardt – Morrisette Township's (Figures 5 and 6). Approximately 75% of the property is underlain by Archean intermediate to basic metavolcanics consisting of pillowed and massive flows of basalt and andesite. The remaining 25% is composed of mafic intrusive rocks consisting of diorite and gabbro stocks and sills. Rock units have been metamorphosed to greenschist facies. Units generally trend north to northeast and dip vertical to steeply west. Rock units have been intruded by late-stage dikes of syenite and quartz-feldspar porphyry.

Faulting in the region can be roughly divided into three groups: north-south trending lineaments, northwest to west trending lineaments and east to northeast trending faults. Many of these structures contain gold deposits and occurrences.

Evidence of faulting and hydrothermal alteration is documented on the property. The southwest section is crossed by the north-south striking Amikougami Creek Fault. North of the property in the vicinity of the northwest arm of Amikougami Lake, the Amikougami Creek Fault merges with Amikougami Lake Fault. Where the faults merge, there are numerous high-grade gold occurrences associated with quartz and quartz-carbonate veining in north-south orientated shear zones. In the central section of the property, there are several gold occurrences reported to be associated with carbonate alteration and shearing. These occurrences are situated south of the central arm of Amikougami Lake and on the west shore of the east arm of Amikougami Lake.



**Figure 4: Regional geology map**

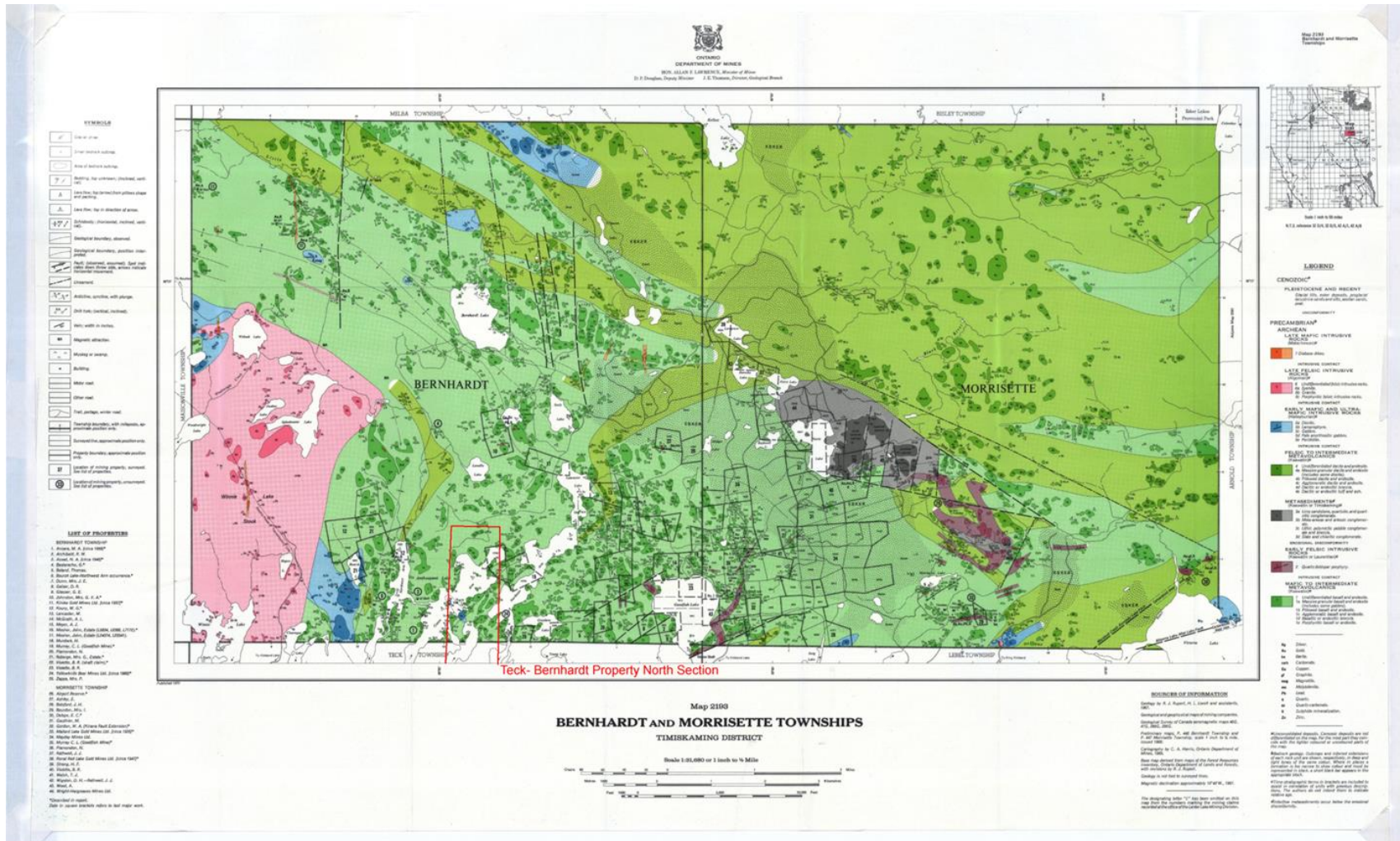


Figure 5: Regional geology map: Bernhardt and Morrisette Townships

The dominant rock type on the property are Keewatin mafic metavolcanics (Figures 4 and 5) described below:

### **ARCHEAN Mafic Metavolcanics**

The property is dominated by volcanic rocks known as "greenstones". Compositionally these rocks are basalt or andesite. They have been metamorphosed to the greenschist facies; which is characterized as having chlorite and epidote alteration. Both chlorite and epidote alteration is found throughout the mafic metavolcanics on the property. The metavolcanics are classified as being Keewatin and represent the oldest rocks on the property. The mafic metavolcanics range in colour from dark green to dark grey.

Most of the mafic metavolcanics consist of the massive flows which range in thickness from 10's of meters to several hundred meters. Quartz and quartz-carbonate fracturing occurs locally in the mafic metavolcanics. A few locations are noted as having chlorite amygdaloidal mafic metavolcanics. Traces of disseminated pyrite is ubiquitous in the mafic metavolcanics.

One outcrop on the southwestern shore of Goodfish lake shows strong carbonate fracturing containing up to 1% black hematite. Sericite alteration is quite common.

Two distinct textural features are found in the mafic metavolcanics, one is variolitic and the other brecciated. The brecciated variety of mafic metavolcanics occurs sporadically throughout the property. The breccia is probably a flow type breccia. Generally, the breccia can be described as a monomictic breccia with highly angular clasts ranging from 1 to 20cm; the clasts are light to dark grey with clasts making up 50-90% of the rock in a fine grained matrix of chlorite with approximately 5% pyrite.

### **History of Exploration**

Gold in the Kirkland Lake-Larder Lake District was originally discovered near Larder Lake and at Swastika in 1906 by prospectors that moved northward from the Cobalt camp. During the 20th Century the Kirkland Lake-Larder Lake district developed into one of the world's premier gold mining areas with production of approximately 1,200 tonnes or over 35 million ounces of gold, at an average recovered grade of 0.345 oz Au/ton or 11.82 g Au/tonne.

There is very little reported exploration work within the area covered by the property considering the proximity of the property to the Kirkland Gold Camp. Despite the lack of information, several gold and copper discoveries are reported within the property boundary.

First reports of exploration in area begin in 1919 with the discovery of gold in the vicinity of the northwest arm of Amikougami Lake. Over a 40 year period, Moses Ansara held various claims covering some of the gold discoveries (File: KL-120 Ansara). One of these claims was situated at the south end of the central arm of Amikougami Lake in Teck Township within the present Teck-Bernhardt Property on claim 539413. In 1959, Mr. Ansara reports drilling three holes in a zone of sheared and carbonated volcanic breccia mineralized with quartz stringers, fine pyrite and occasional pyrrhotite. Drill logs indicate all the holes were collared in mineralization in a zone at least 18 feet wide (6 m) and striking east-west. Although 20 core samples were taken, no assays were reported which was standard for the time (42A01NE0239).

In 1959, the Mayer Mining Company Limited was active in the Amikougami Creek section of the current property. On the east side of creek where it is crossed by hydro transmission line, Map-1945 shows a series of pits near a northeast trending porphyry dike (in red) striking between the creek and the hydro line. These pits are believed to be the work of the Mayer Mining Company Limited.

It was reported exploration focused on two mineralized shears that intersected along the contact of metavolcanic breccia and gabbro. Two samples of chalcopyrite mineralization from the shears assayed 0.21 oz Au/ton and 0.25 oz Au/ton (MDC 018). The pits are situated within the Teck-Bernhardt property on claim 539401.

In 1994, Rob Campbell and Gordon Henriksen explored regions proximal to Amikougami Creek and the hydro transmission line. A grid was cut with north-south orientated lines spaced 400 feet apart. Ground magnetometer and VLF surveys were completed followed by geological mapping. The grid covered most of the southwest section of the current property. Forty old pits were found in the survey area. North and northeast striking shear zones were observed in outcrops situated south of the central arm of Amikougami Lake. A rock sample taken in rubble from a pit located in the area of the Ansara drilling assayed 0.127 oz Au/ton. Numerous conductive zones were outlined by the VLF survey. Magnetic data suggested a fault extend southeast across the survey area coincident with the pit and sheared outcrops found south of the Amikougami Lake. Overburden stripping and outcrop washing was recommended in the area but there is no record if follow-up work was completed.

Between 1995 and 2007, Eric Marion and Alain Carreau explored their Lakeview Property situated in the southeast section of Amikougami Lake. The area of their property is covered by the southeast section of the current claim group. Over the years, they completed ground magnetometer and VLF surveys over sections of the lake and prospected along the shoreline and on some islands. Initial prospecting resulted in the discovery of gold and copper mineralization at `Site D` on the west shore of the lake. The mineralization is vaguely described as a zone of intense shearing with pervasive quartz-calcite veining with disseminated pyrite in altered basalt. Best assays of rock chips from a series of plugger holes drilled into the site include: 1,546 ppb Au, 650 ppb Au and 0.195% Cu. A VLF survey outlined a conductive feature striking east for 200 metres from Site D to the east shore of the lake. Site D is situated within the Teck-Bernhardt Property on claim 539409 (42A01NE0249).

In 2006, E. Miron reported anomalous gold had been found in a rock sample collected on a tiny island in the southeast end of Amikougami Lake in the southeast corner of claim 539410. In 2007, two X Ray drill holes were drilled in cell 42A01I328 in an attempt to test the mineralization from a point of land situated east of the island. Both holes are reported to have started in fresh basalt but broke out of bedrock into till material before any faulting or mineralization was encountered (20002809).

As previously mentioned, just to the west of the Teck-Bernhardt Property a considerable amount of exploration was performed during 40's and 50's on a series of high-grade gold occurrences in the northwest and central arms of Amikougami Lake. Numerous pits, trenches and several shafts were excavated in the area. Some of this work is attributed to N. Assad (1946) and M. Ansara (1959). In 1993, Glen Mullan and Randon Ferderber explored the area on behalf of Trinity Explorations. Their work included: a geological survey, rock sampling, ground magnetometer and VLF surveys and diamond drilling (42A01NE9808). In 2004, the same area was re-examined by M.P. Rosatelli for Golden Valley Mines Limited.

OGS Map 2193 shows numerous pits and a shaft on the west side of the central arm of Amikougami Lake. Several of these historic pits are situated within the Teck-Bernhardt Property on claim 543347. It is believed the pits are the work of either of N. Assad (1946) or M. Ansara (1959).

In 1966, Yellowknife Bear Mines Limited drilled 6 holes to test a north-south trending lineament running along the east side of the northeast arm of Amikougami Lake and just east of the Teck-Bernhardt Property. No significant results were reported (R084).



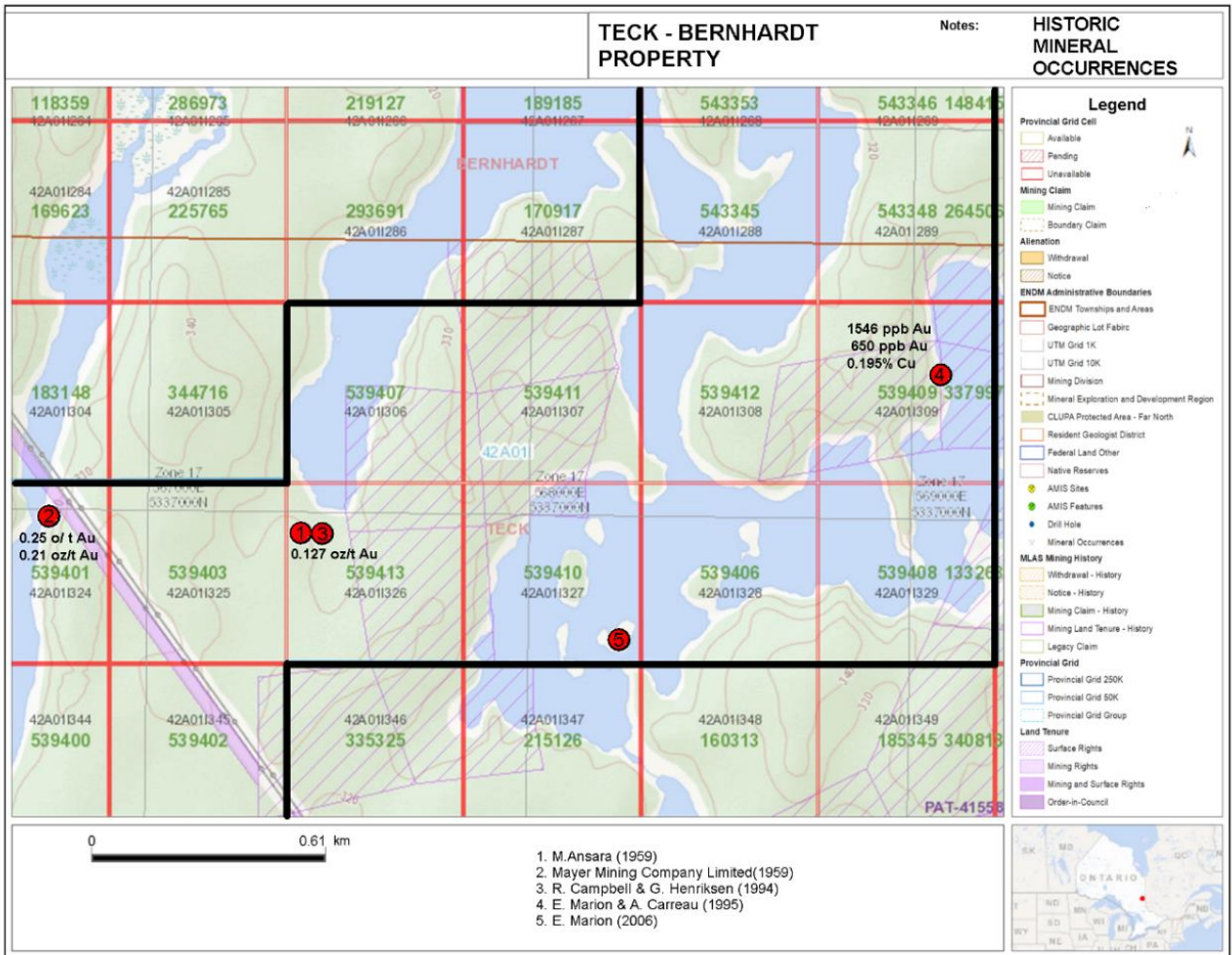


Figure 6. Summary of Historic Exploration

## Survey Date and Personnel

Field work for this report was completed over a 5 day period on June 30, 2020/July 1,2,3, 2020/ & October 19, 2021. The traverses were completed by: Jim Renaud of London, Ontario and Robert Dillman of Mount Brydges, Ontario.

## Survey Logistics

The traverse was initiated to prospect the Teck – Bernhardt Property in search for outcrop and gossanous horizons and examine some of the historic mineral occurrences. The traverses are plotted at a scale of 1 : 5,000 and 1: 20,000 on accompanying maps. Geology recorded during traverses is plotted at a scale of 1 : 5000 on maps appended to this report. A total of 2.46 km was traversed on land and 4.14 km traversed by shoreline prospecting. Traverses on land focused on these areas:

June 30, 2020	claim 543351, cell 42A01I209
July 1, 2020	claim 539409, cell 42A01I309
July 2 – 3, 2020	claims 539403 & 539413, cell's 42A01I325 & 42A01I326
October 19, 2021	claims. 543351& 543349, cell's 42A01I209 & 42A01I229

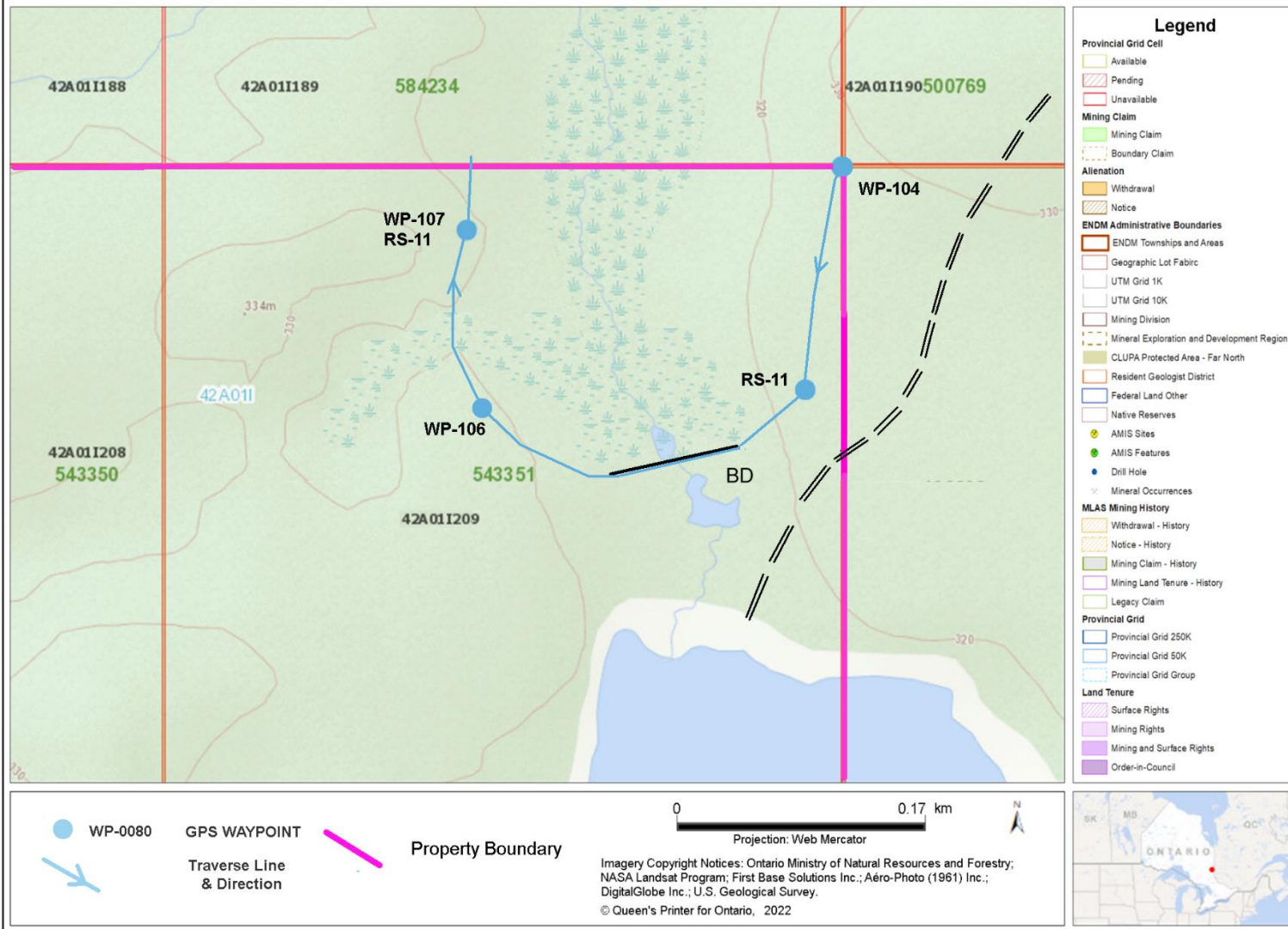
A compass and several models of Garmin GPS were used to navigate. The Garmin GPS models include RINO 750, ASTRO 900 and MAP 66st. All the GPS units were set to NAD83, Zone 17. Waypoints (WP) for the traverses were periodically recorded and are listed in Table 2. In 2021, the authors utilized a CAT S42 smartphone handheld device equipped with the Discovery MapInfo to supplement the GPS recordings. The CAT data is presented in the Appendix of this report and included on traverse and geology maps.

A total of 16 rock samples were collected during the traverses and submitted assay. The rock samples from the property were delivered to AGAT Laboratory for analyses. The lab is in Mississauga, Ontario. All rock samples were Fire Assayed for gold using a 50 gram charge and finished by Inductively Coupled Plasma – Optical Emission Spectroscopy (ICP-OES) to measure the gold concentration. Assay certificates from the lab are appended to this report. At the time of this report only 11 assay results were available for reporting. Due to Covid-19 issues within the lab, 5 assays are still pending to an unknown date.

Rock sample locations, descriptions and assay results are presented in Table 2 and plotted with geology and surface features on the appended map at a scale of 1:5,000.

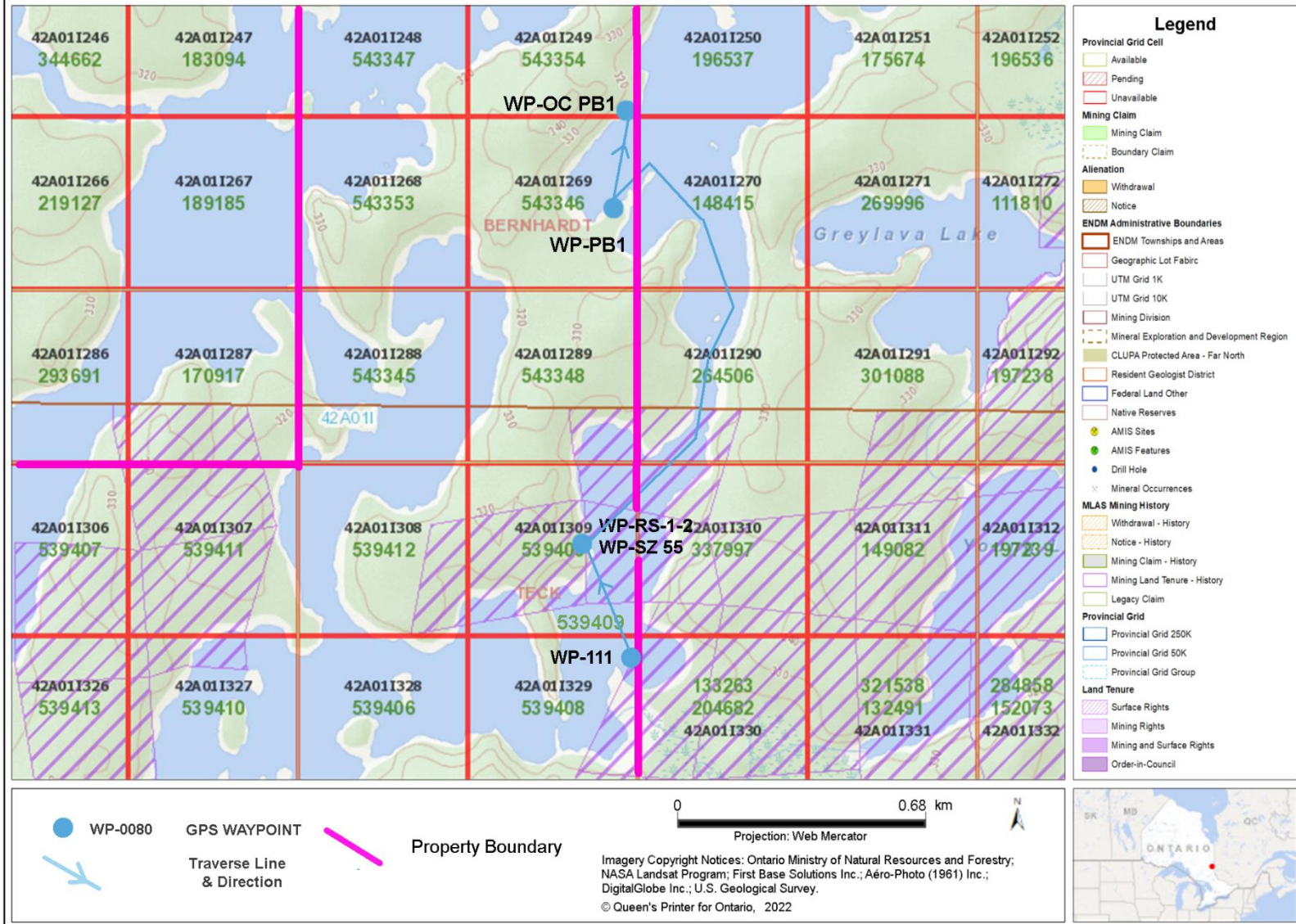
**Figure 7.**  
**June 30, 2020 Traverse**  
**TB Property**

Notes: **Teck & Bernhardt Township**  
**Ontario**



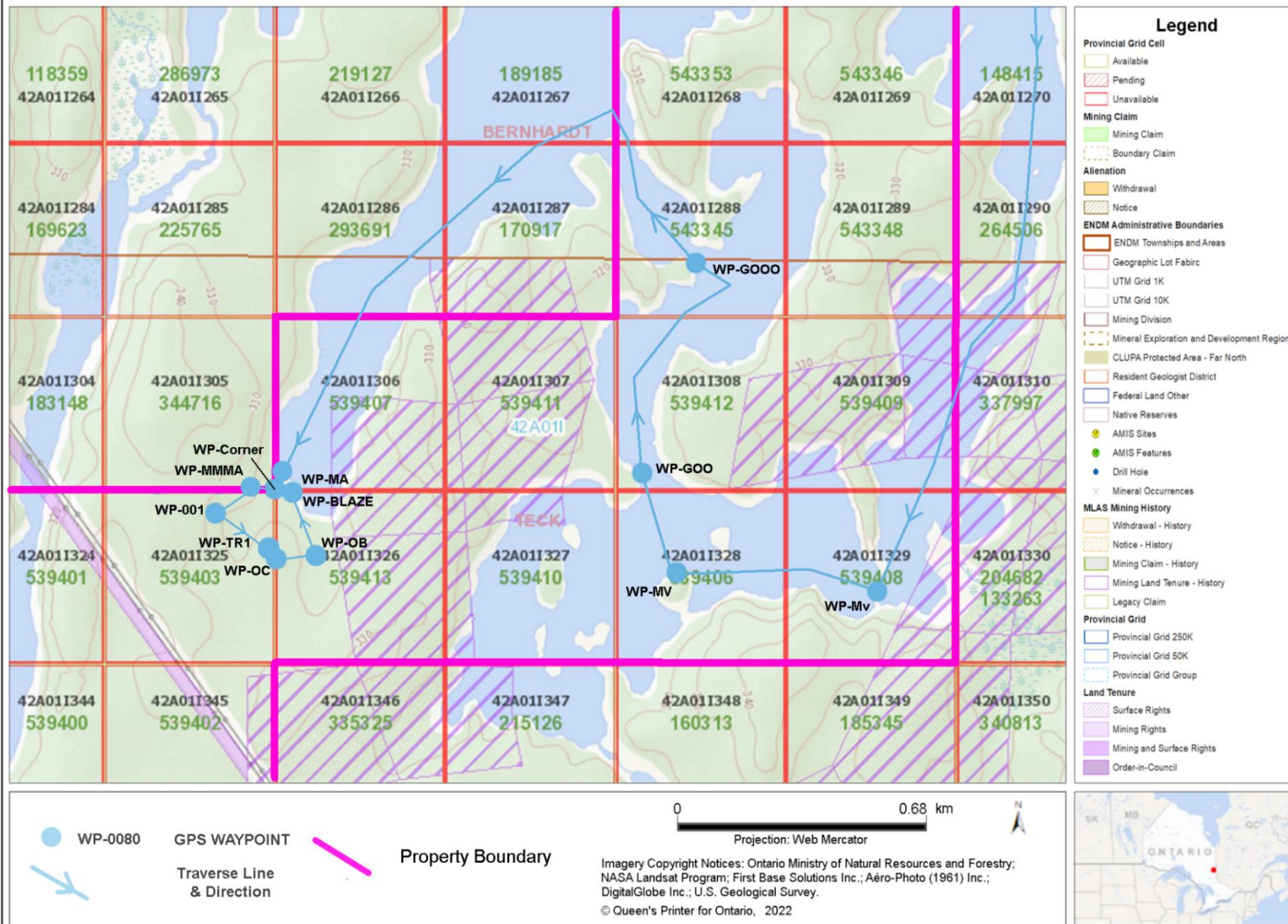
**Figure 8.**  
**July 1, 2020 Traverse**  
**Southeast Amikougami Lake Area Teck - Bernhardt Property**

**Notes: Teck & Bernhardt Townships**  
**Ontario**



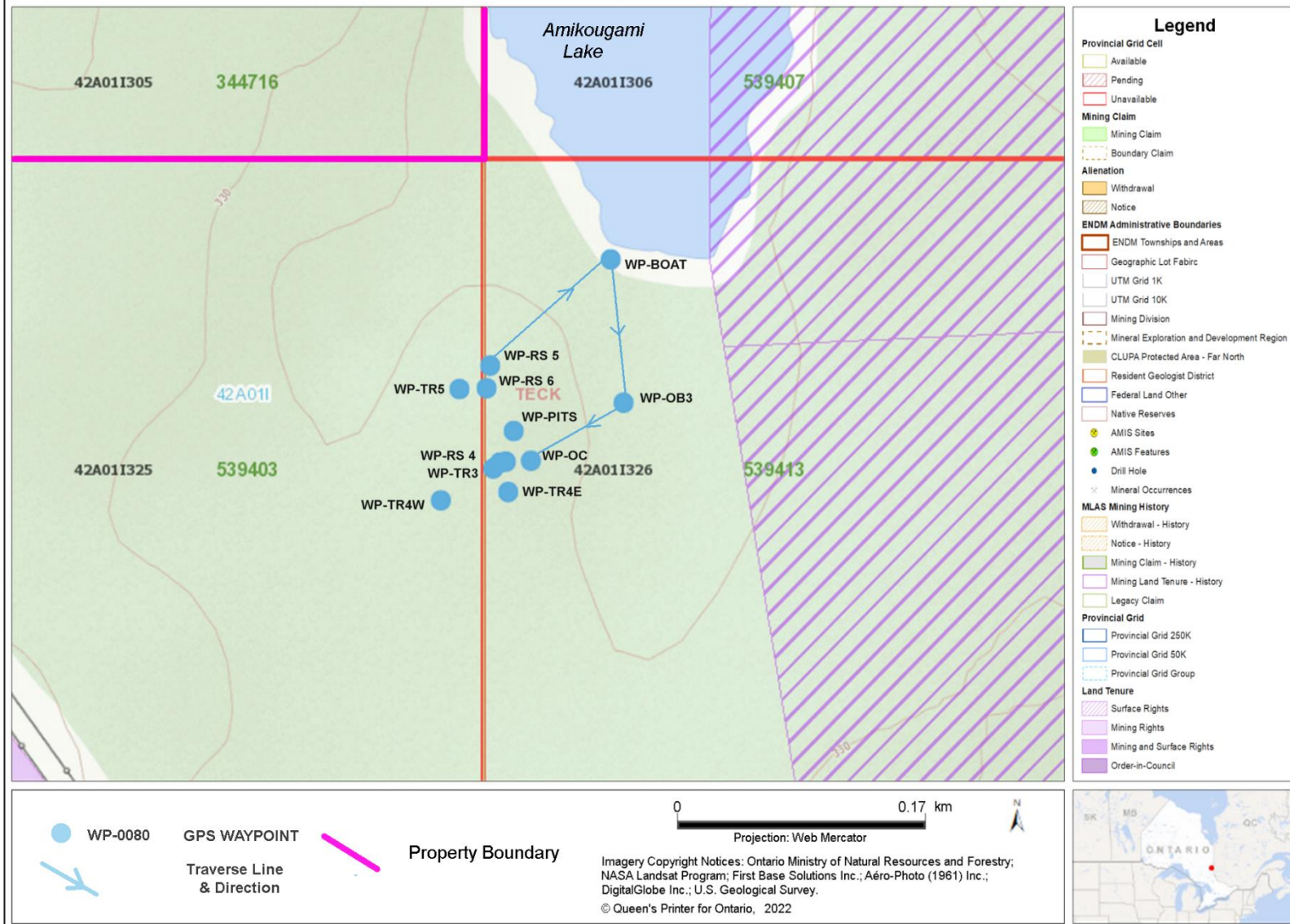
**Figure 9.**  
**July 2 2020 Traverse Map**  
**Teck - Bernhardt Property**

Notes: **Teck & Bernhardt Twp.'s**  
**Ontario**



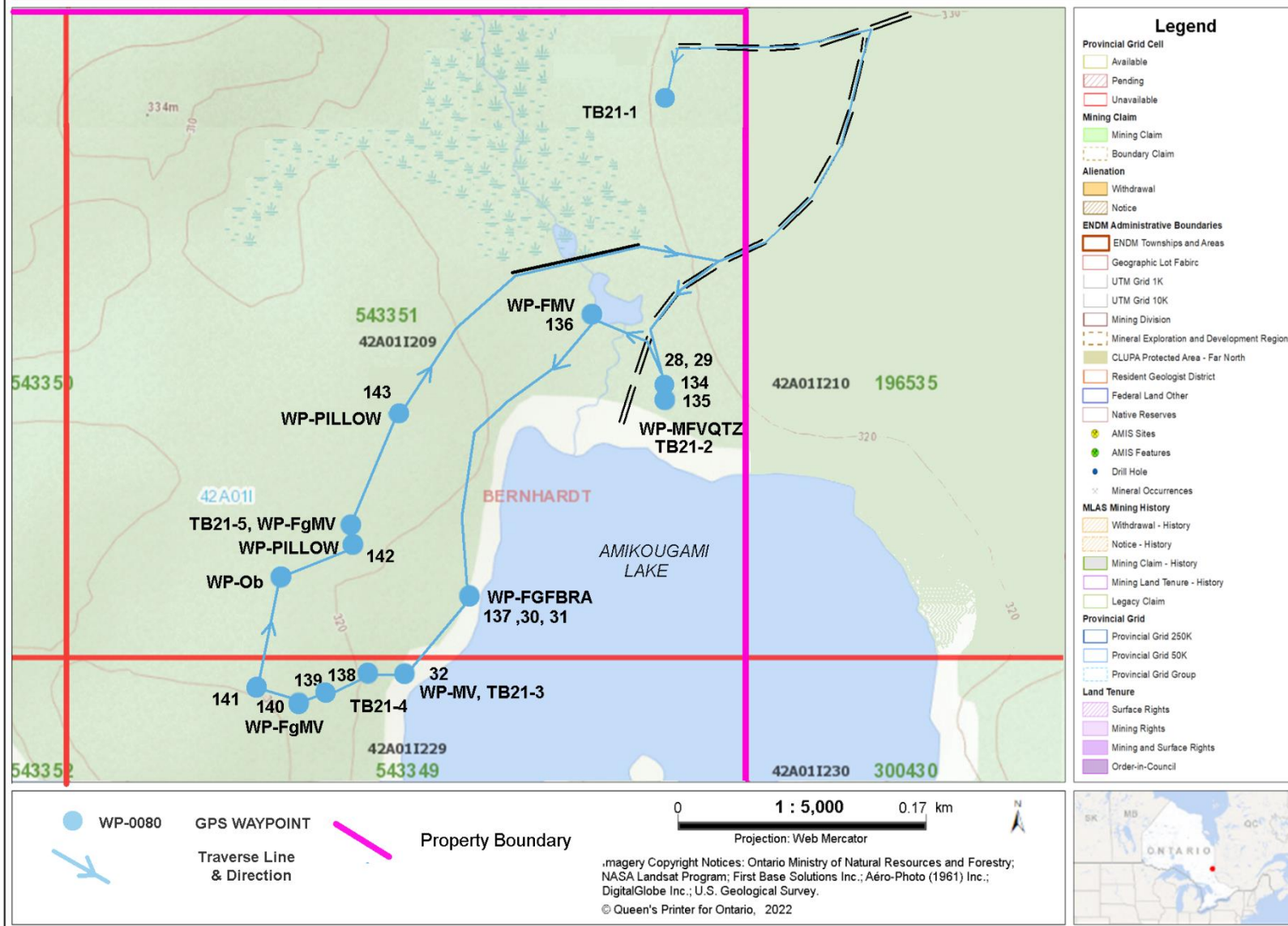
**Figure 10.**  
**July 3, 2021 Traverse**  
**TB Property: Ansara Area**

**Notes:**  
**Teck & Bernhardt Township**  
**Ontario**



**Figure 11.**  
**October 19, 2021 Traverse**  
**TB Property**

Notes: **Teck-Bernhardt Twp's**  
**Ontario**



**Table 2. Waypoint & Rock Sample Locations  
Teck-Bernhardt Property NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
WP-104	June 30/20	569186	5339875	543361 42A01I209			Pillowed basalt
RS-10 epiqtz	June 30/20	569162	5339725	543361 42A01I209	RS-10	0.012	Pillowed basalt with quartz-calcite epidote stringers/ vein <10 cm wide striking 162°, trace coarse pyrite blebs along contacts
WP-106	June 30/20	568980	5339730	543361 42A01I209			Pillowed basalt
WP-107	June 30/20	568930	5339829	543361 42A01I209	RS-11	0.006	Quartz-carb stringers, strike 168° in mafic metavolcanic
Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
WP-RS 1-2	July 1/ 20	569084	5337340	539409 42A01I310	RS-1 RS-2	0.004 0.004	RS-1, boulders of brecciated mafic metavolcanic with fine-grained sucrosic quartz matrix. Trace pyrite. In lake. RS-2, silicified brecciated mafic metavolcanic with sucrosic pinkish-white quartz, weak carb. Boulders in low. Believed to be close to Marion and Carreau Au showing
WP-111	July 1/ 20	569215	5337037	539408 42A01I329			Basalt pillows
WP-PB1	July 1/ 20	569140	5338239	543346 42A01I269			Basalt pillows
WP-OC PB	July 1/ 20	569171	5338505	543354 42A01I249			Basalt pillows
Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
WP-Go	July 2/ 20	569017	5336930	539408 42A01I329			Basalt pillows
WP-Mv	July 2/ 20	569003	5336834	539408 42A01I329			Basalt pillows
WP-MV	July 2/ 20	568476	5336886	539406 42A01I328			Basalt pillows
WP-Goo	July 2/ 20	568382	5337136	539412 42A01I308			Basalt pillows
WP-Gooo	July 2/ 20	568491	5337713	543345 42A01I288			Basalt pillows
WP-MA	July 2/ 20	567377	5337138	539403 42A01I325			Mafic metavolcanic outcrop, andesite
WP-TR-1	July 2/ 20	567368	5336901	539403 42A01I325	RS-3	0.003	Old trench, 3 m x 2 m on mafic outcrop,
WP-MMMA	July 2/ 20	567288	5337099	539403 42A01I325			Mafic metavolcanic outcrop, andesite
WP-001	July 2/ 20	567202	5337013	539403 42A01I325			Mafic metavolcanic outcrop, andesite
WP-OC	July 2/ 20	567345	5336918	539413 42A01I326			Edge of large outcrop, mafic metavolcanic
WP-Blaze	July 2/ 20	567409	5337073	539413 42A01I326			Old claim line on lake shore, till, cedar



**Table 2. Waypoint & Rock Sample Locations**  
**Teck-Bernhardt Property NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
WP-BOAT	July 3/ 20	567449	5337007	539407 42A01I326			Lake shore, no outcrop cedar, alders, boulders
OB-3	July 3/ 20	567459	5336912	39413 42A01I306			Overburden, poplar, balsam, alders
RS-4	July 3/ 20	567375	5336871	539413 42A01I326	RS-4	0.003	Brecciated mafic metavolcanic with quartz filled fractures
WP-TR2	July 3/ 20	567347	5336920	539413 42A01I326	RS-7	0.003	Small trench, 2 m x1 m. basalt with rusty white to pink sucrosic quartz + calcite.
WP-TR-3	July 3/ 20	567371	5336867	539413 42A01I326	RS-8	0.002	Basalt with rusty/ hematite film on cleavages
TR4W	July 3/ 20	567335	5336845	539403 42A01I325			Trench-4 50m long, west end
TR4E	July 3/ 20	567382	5336851	539413 42A01I326			Trench-4 50m long, east end
WP-PITS	July 3/ 20	567385	5336892	539413 42A01I326			Collapsed, No rock exposed
WP-RS-5 BR	July 3/ 20	567368	5336935	539403 42A01I325	RS-5	0.014	Brecciated mafic metavolcanic with sucrosic quartz matrix.
WP-RS-6	July 3/ 20	567366	5336920	539403 42A01I325	RS-6	0.006	Brecciated mafic metavolcanic with sucrosic quartz matrix.
WP-OC	July 3/ 20	567396	5336872	539413 42A01I326			Mafic metavolcanic
WP-SZ 55	July 3/ 20	569070	5337337	539409 42A01I310	RS-9	0.203	Quartz-calcite matrix breccia, fault striking 55 <sup>o</sup> west of sample RS-1 & RS-2. Possible old trench, Sucrosic fine-grained quartz. Coincides with lineament. Believed to be Marion and Carreau Au showing.

**Table 2. Waypoint & Rock Sample Locations  
Teck-Bernhardt Property NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
WP-MFVQTZ	Oct 19/ 21	569134	5339584	543351, 42A01I209			Mafic metavolcanic with quartz stringers. <5 cm wide strike 160°
TB21-2	Oct 19/ 21	569136	5339581	543351, 42A01I209			Sucrosic quartz
WP-FMF	Oct 19/ 21	569083	5339640	543351, 42A01I209			Mafic metavolcanic outcrop.
WP-FGFBR	Oct 19/ 21	569003	5339450	543351, 42A01I209			Brecciated mafic metavolcanic
WP-TB21-3	Oct 19/ 21	568958	5339398	543349, 42A01I229			Pillowed basalt, chloritized, trace hematite
WP-FgMV	Oct 19/ 21	568954	5339393	543349, 42A01I229			Fine grained mafic metavolcanic outcrop
WP-TB21-4	Oct 19/ 21	568934	5339398	543349, 42A01I229			Fine grained mafic metavolcanic with epidote and quartz
WP-FgMV	Oct 19/ 21	568886	5339378	543349, 42A01I229			Fine grained mafic metavolcanic outcrop
WP-OB	Oct 19/ 21	568873	5339462	543351, 42A01I209			Overburden, balsam, spruce, alders
WP-PILLOW	Oct 19/ 21	568922	5339484	543351, 42A01I209			Pillowed basalt
WP-FgMV	Oct 19/ 21	568917	5339494	543351, 42A01I209			Fine grained mafic metavolcanic outcrop
WP-TB21-5	Oct 19/ 21	568920	5339497	543351, 42A01I209			Felsic unit with 1% fine pyrite
WP-PILLOW	Oct 19/ 21	568955	5339576	543351, 42A01I209			Pillowed basalt
134	Oct 19/ 21	569136	5339593	543351, 42A01I209			qtz carb veining
135	Oct 19/ 21	569133	5339585	543351, 42A01I209			disseminated and veinlets with sulphides
136	Oct 19/ 21	569080	5339639	543351, 42A01I209			basalt
137	Oct 19/ 21	568999	5339448	543351, 42A01I209			calcite epidote qtz alteration in basalt
138	Oct 19/ 21	568935	5339395	543349, 42A01I229			w pink qtz alteration
139	Oct 19/ 21	568905	5339383	543349, 42A01I229			thin calcite veins
140	Oct 19/ 21	568876	5339377	543349, 42A01I229			Mafic metavolcanic
141	Oct 19/ 21	568859	5339378	543349, 42A01I229			Mafic metavolcanic
142	Oct 19/ 21	568926	5339488	543351, 42A01I209			weak carbonate
143	Oct 19/ 21	568952	5339574	543351, 42A01I209			qtz carb veining
28	Oct 19/ 21	569135	5339579	543351, 42A01I209			older veins dip E
29	Oct 19/ 21	569135	5339579	543351, 42A01I209			young veins
30	Oct 19/ 21	569001	5339447	543351, 42A01I209			late crosscutting veinlets
31	Oct 19/ 21	569001	5339447	543351, 42A01I209			earlier qtz veinlets
32	Oct 19/ 21	568946	5339400	543351, 42A01I209			hematized fg basalt and lenses of pinky qtz w minor disseminated sulphide
TB21-1	Oct 19/ 21	569105	5339818	543351, 42A01I209	TB21-1		boulder on outcrop w disseminated sulphide
TB21-2	Oct 19/ 21	569135	5339579	543351, 42A01I209	TB21-2		w crosscutting veins and sulphides
TB21-3	Oct 19/ 21	568952	5339398	543349, 42A01I229	TB21-3		fg w ochrous hematite
TB21-4	Oct 19/ 21	568935	5339395	543349, 42A01I229	TB21-4		calcite epidote qtz hematite alteration
TB21-5	Oct 19/ 21	568921	5339500	543351, 42A01I209	TB21-5		fg silicified altered intermediate to felsic w sulphides



RS-1 0.004 ppm Au



RS-2 0.004 ppm Au



RS-3 0.003 ppm Au



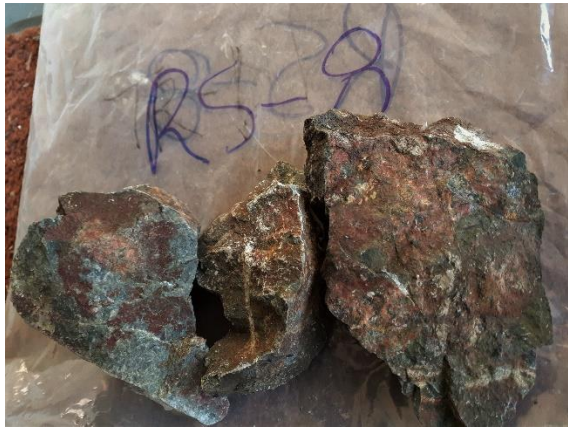
RS-5 0.014 ppm Au



RS-6 0.006 ppm Au



RS-7 0.003



RS-8 0.002 ppm Au



RS-9 0.203 ppm Au



RS-10 0.12 ppm Au



RS-11 0.006



TB21-1 NA



TB21-2 NA



TB21-3 NA



TB21-4 NA



TB21-5 NA

## Survey Results

The following summarizes the traverses on the property:

June 31, 2020:

The traverse at the north end of the property crossed large outcrops of pillowed basalt well exposed by logging and forest fire. A small vein of epidote-quartz-calcite with 1 cm blebs of pyrite was located and assayed 0.012 ppm Au. The vein strikes NW-SE. A small quartz-carbonate vein also striking in similar direction was found further to the west. A grab sample assayed 0.006 ppm Au.

July 1, 2020:

The traverse consisted mostly of shoreline prospecting in the sections of the east arm of Amikougami Lake covered by the TB Property. This section of the lake is basically bounded by large outcrops and all the islands generally consist of barren rock. Except for the Marion and Carreau occurrence, no obvious zones of mineralization were observed along the shoreline on the property however weakly gossaned rock occurs on a high cliff face on the east side of the lake, a short distance from the property boundary. The area may have been explored in 1966 by Yellow Bear Mines Limited. Two rock samples were collected at the Marion and Carreau occurrence each assaying 0.004 ppm Au. The site was revisited on July 3, 2020 during which a debris filled pit was discovered. The pit exposes brecciated mafic metavolcanic rock with quartz and calcite. A grab sample of quartz and calcite from the north face of the pit assayed 0.203 ppm Au. The pit is situated in a lineament striking  $55^{\circ}$  which we believe marks a fault.

July 2, 2020-July 3, 2020:

The traverses started with shoreline prospecting without much success and finished with prospecting in the vicinity to the area where drilling by M. Ansara is reported at the south end of the middle arm of Amikougami Lake. Several overburden trenches, pits and stripped areas were found in the area. The historic workings are situated on the top of a large outcrop of mafic metavolcanic rock possibly being andesite. Although debris filled, the working have been excavated more recently than the work by Ansara in 1959. The workings appear follow a northwest trending zone of brecciation with sucrosic quartz-calcite infilling. Very little sulphides and alteration is present however there is a pervasive rusty ochre-like staining on cleavages of the rocks collected throughout the area. Six rock samples were collected from the workings. Five of the samples assayed 0.003 to 0.006 ppm Au. One sample assayed 0.014 ppm Au. No evidence of drilling was observed in the area.

October 19, 2021

The traverse was focused on prospecting the north end of the property in the vicinity to the traverse conducted in the previous year on June 31, 2020. Five rock samples were collected during the traverse however due to Covid-19 issues at the lab, assay results were not available at the time of this report. A boulder of mafic metavolcanic rock with pyrite was sampled. The boulder was found on outcrop close to the epidote-quartz-calcite vein found in the northeast corner of property in the previous year. Further to the south several generations of crosscutting sucrosic quartz stringers were sampled. To west of the lake, similar crosscutting quartz stringers were observed in an outcrop on the shoreline. Quartz-carbonated stringers were sampled in the area and a sample was collected from an outcrop of felsic rock with traces of fine disseminated pyrite.

## Discussion of Results

Gold bearing shear zones and quartz veins are situated on the Teck-Bernhardt Property and in the surrounding area close to the property. These occurrences appear to be related to larger fault structures and possibly occur proximal to intersecting faults. Campbell and Henriksen's assumption that a fault crosses the south section of the property appears correct and is supported by government airborne magnetic data which shows a possible fault extending east-southeast from the Amikougami Creek Fault towards the Town of Kirkland Lake where the fault becomes obscured by faults associated with the Larder Lake Break. The mineralization reported by M. Ansara and the anomalous gold values detected in the southeast corner of the property by E. Marion fall along this trend. Near Kirkland Lake, several gold and molybdenum discoveries are situated along the trend also.

Limited access to the area in past is believed to be the reason why there is very little exploration reported for the area. Recent logging has provided excellent access to the north end of the property and to Amikougami Lake.

## Conclusions and Recommendations

Additional geological and prospecting traverses are recommended on the Teck-Bernhardt Property. There is abundant rock exposure and recent Kirkland Lake Fire 8 has provided a very good environment for prospecting on the property. All the known occurrences of gold should be examined and sampled to determine the potential of each site and develop a path for further exploration. In addition, reconnaissance traverses should be conducted at frequent intervals across the peninsulas of land between the arms of Amikougami Lake and in the south section of the property.

The proposed exploration could be completed with 3 – 4 weeks and is estimated to cost \$37,500. A budget for the recommend program includes:



2 Geologists	\$21,000
Assays	4,500
Report, maps	3,500
Boat & motor, fuel	5,000
Truck	3,000
Hotel	3,000
Food	1,500
	\$37,500

Respectfully submitted by:


Jim Renaud

And,

Robert James Dillman P. Geo  
Arjadee Prospecting

Robert Dillman

January 10, 2021

## References

- Ansara, M.A. 1959.** Report of Diamond Drilling. Teck Township. Unpublished assessment Report 64. 42A01NE0239
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Dr. Jim A. Renaud, P.Ge, Ph.D  
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21272 Denfield Rd, London, Ontario, Canada, N6H 5L2  
renaudgeological@execulink.com

## CERTIFICATE of AUTHOR

I, Jim A. Renaud, **Professional Geologist**, do certify that:

1. I am the President and the holder of a Certificate of Authorization for:

**Renaud Geological Consulting Ltd.**  
21272 Denfield Rd  
London, Ontario, Canada,  
N6H 5L2

2. I am President and CEO of Renaud Geological Consulting Ltd.;
3. That I have the degree of Bachelor of Science (Chemistry and Geology), 1999, from Western University; the degree of Honors Standing in Geology, 2000, from Western University; Master of Science (Economic Geology), 2003, from Western University; and Doctor of Philosophy in Geology, 2014, from Western University;
4. I am an active member of:  
**Association of Professional Geoscientists of Ontario, APGO, #2211**
5. I have been a licensed Prospector in Ontario since 2000;
6. I have worked continuously as a Geologist for 19 years;
7. That I am the author of this report entitled:

**REPORT ON PROSPECTING TRAVRSSES:  
TECK-BERNHARDT PROPERTY  
TECK & BERNHARDT TOWNSHIPS  
KIRKLAND LAKE AREA, ONTARIO**

8. That I am jointly responsible for all sections of the Technical Report;
9. That I visited the property claims on the dates specified in this report;
10. That, as of the date of this certificate, to the best of my knowledge, information and belief, the report contains all scientific and Technical information that is required to be disclosed to make the Technical report not misleading;
11. I hereby consent to the filing of the report

Dated at London, Ontario, Canada  
This 3rd day of January, 2022  
Jim A. Renaud, Ph.D., P.Ge.

Date January 10, 2022



Robert J. Dillman P.Geo, B.Sc.  
ARJADEE PROSPECTING  
8901 Reily Drive, Mount Brydges, Ontario, Canada, N0L1W0  
Phone/ fax (519) 264-9278

**CERIFICATE of AUTHOR**

I, Robert J. Dillman, Professional Geologist, do certify that:

1. I am the President and the holder of a Certificate of Authorization for:  
  
ARJADEE PROSPECTING  
8901 Reily Drive, Mount Brydges, Ontario, Canada N0L1W0
2. I graduated in 1991 with a Bachelor of Science Degree in Geology from the University of Western Ontario.
3. I am an active member of:  
  
Professional Geoscientists of Ontario, PGO  
Prospectors and Developers Association of Canada, PDAC
4. I have been a licensed Prospector in Ontario since 1984.
5. I have worked continuously as a Professional Geologist for 30 years.
6. Unless stated otherwise, I am responsible for the preparation of all sections of the Assessment Report titled:  
  
REPORT ON PROSPECTING TRAVRSSES: TECK-BERNHARDT PROPERTY  
TECK & BERNHARDT TOWNSHIPS, KIRKLAND LAKE AREA, ONTARIO  
  
dated, January 10, 2022
7. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not contained in the Assessment Report and its omission to disclose makes the Assessment Report misleading.

Dated this 10th day of January 2022



Robert James Dillman P.Geo  
Arjadee Prospecting



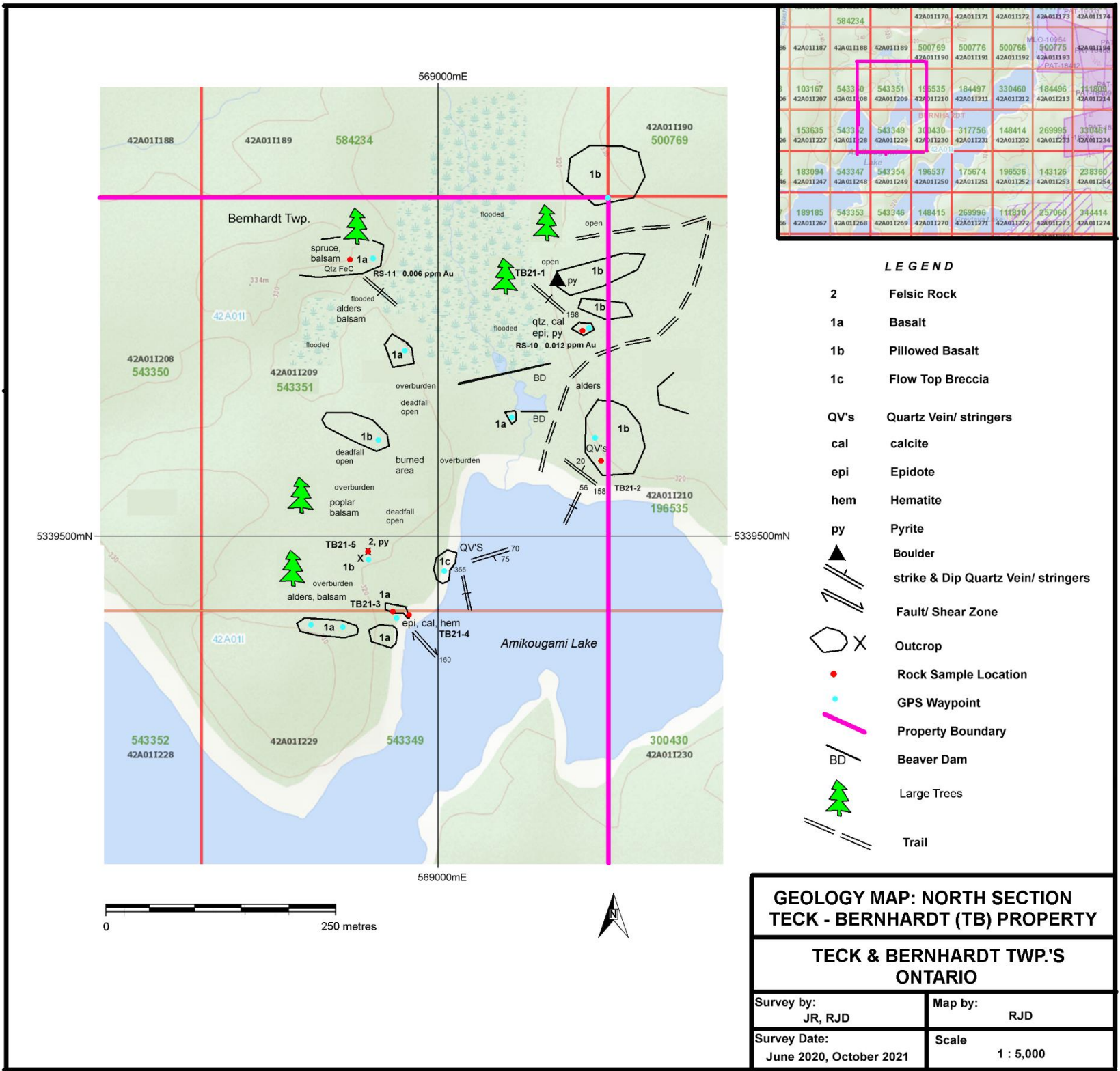
## APPENDIX



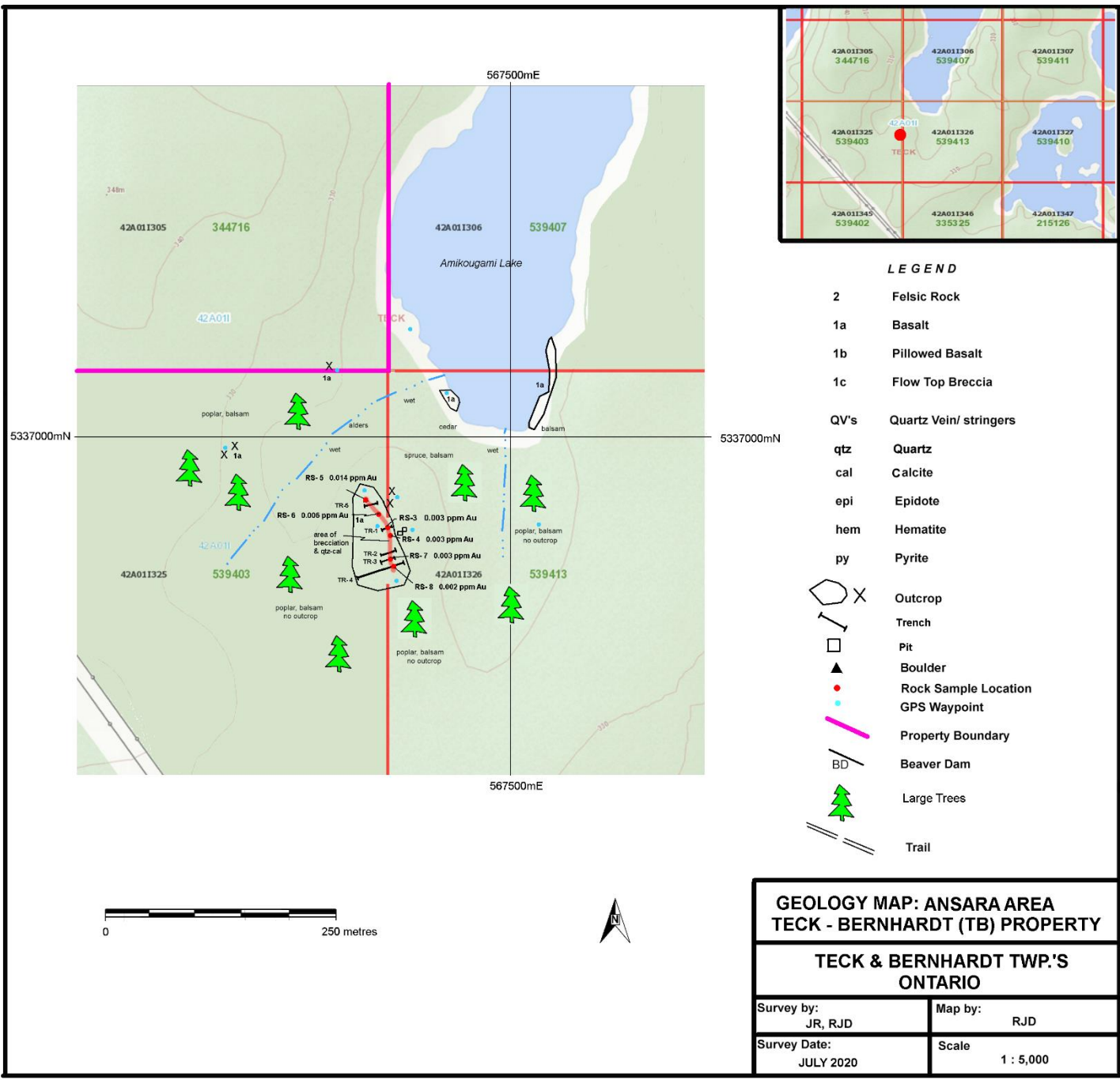
(TB21-1): Basalt boulder on outcrop hosting disseminated sulphides.  
569105mE, 5339818mN

Marion & Carreau Au Occurrence 569070mE, 5337337mN &  
Ansara Area 567368mE, 5336901mN

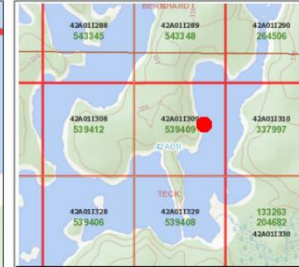
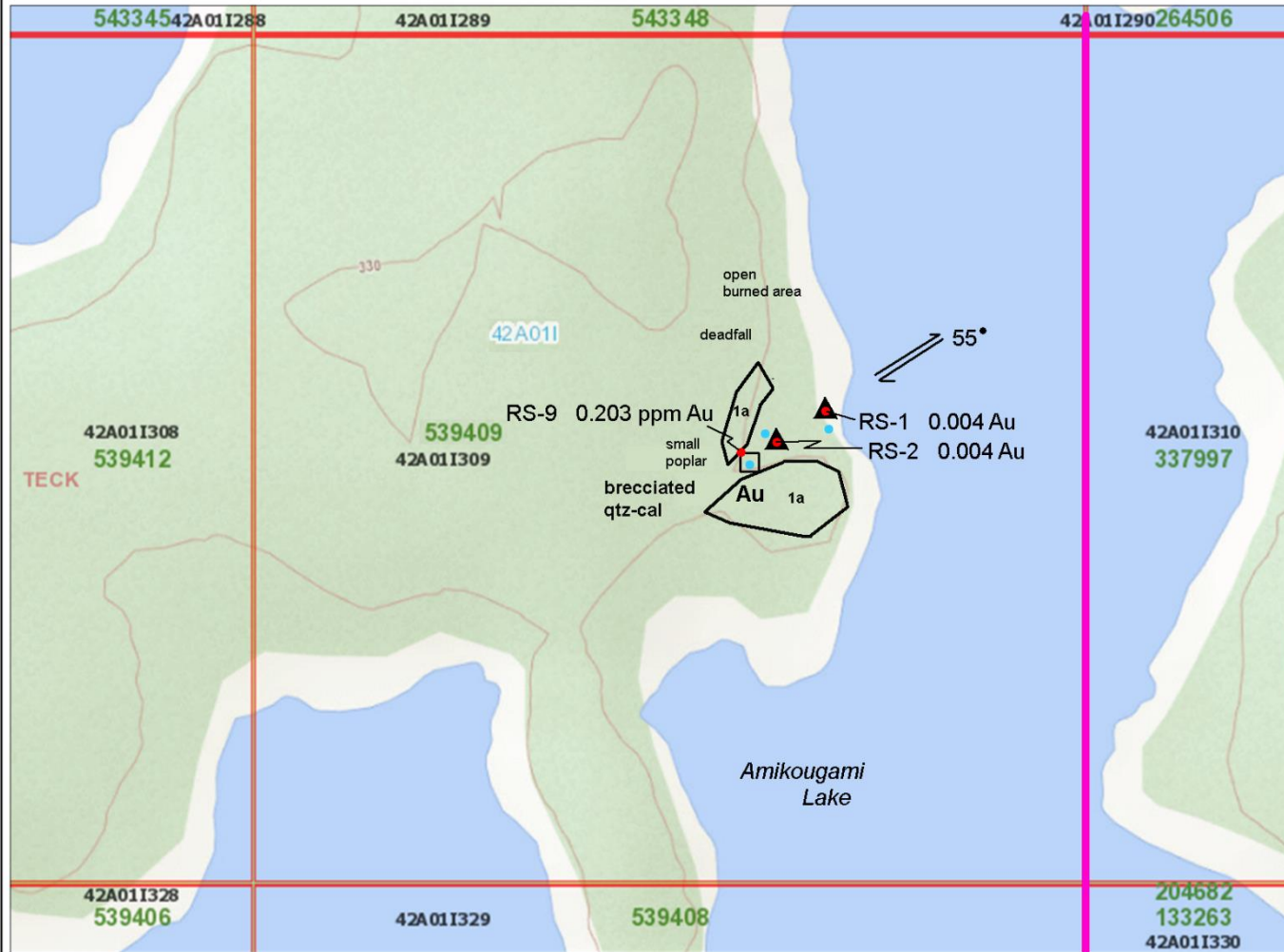




Geology Map for the North Section of the Teck-Bernhardt Property Surface Map ( Scale 1:5000)



Geology Map for the Ansara Area of the Teck-Bernhardt Property Surface Map ( Scale 1:5000)



- 1a Basalt
- outcrop
- pit
- fault/ shear
- boulder
- rock sample
- waypoint



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Geology Map for the Marion and Carreau Au Occurrence, Teck-Bernhardt Property Surface Map ( Scale 1:5000)

The following Tables were collected using the CAT handheld device equipped with the Discovery MapInfo software package. The map and images below the table were collected with the device and correspond to the information presented in the table.

## Rock Samples

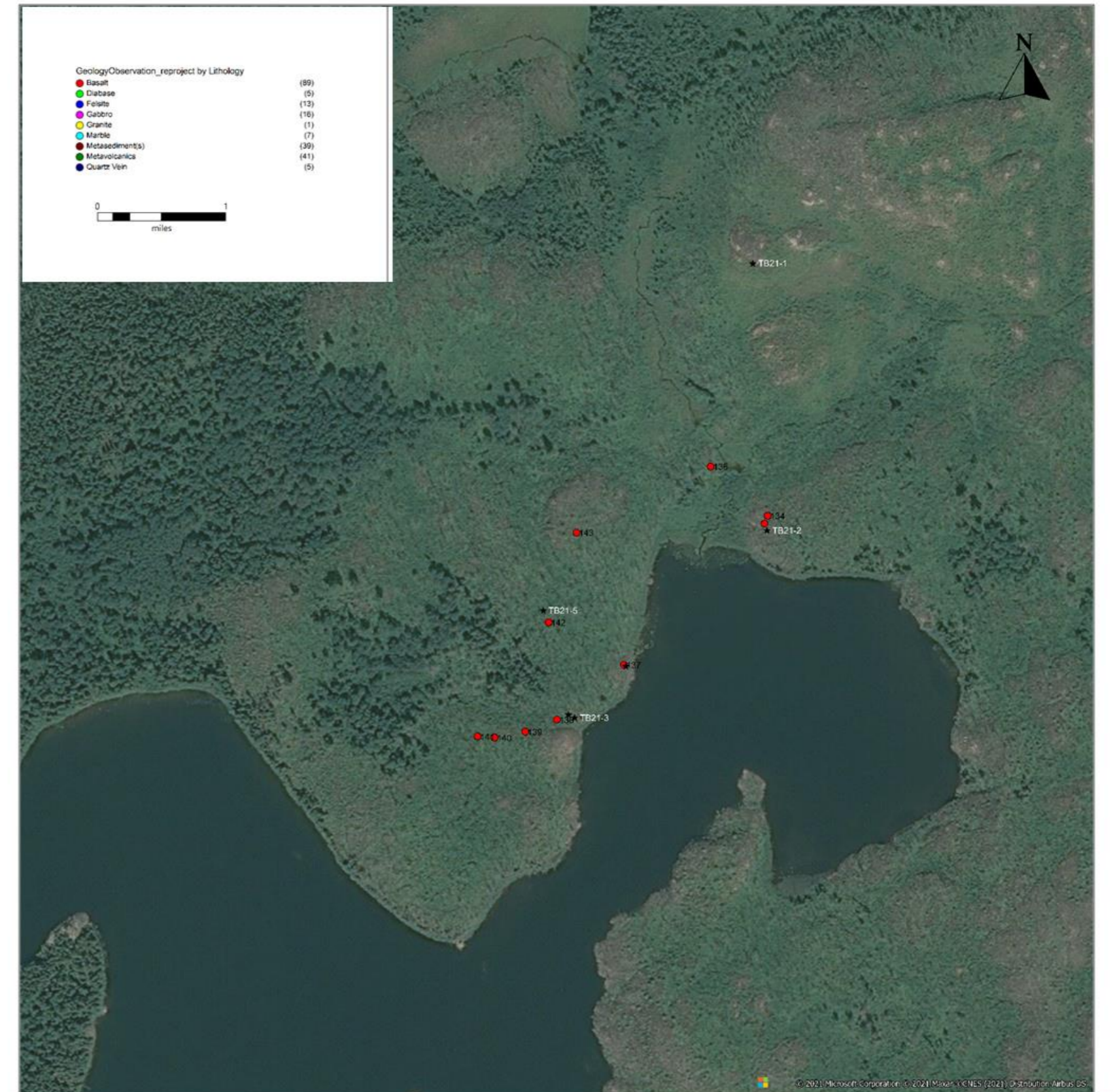
SampleNo	UTM_X	UTM_Y	Elevation	GPS_X
TB21-1	569118.9	5339835	280.8	-80.06966833
TB21-2	569135.5	5339579	278.6	-80.069485
TB21-3	568952.9	5339398	272.7	-80.07197333
TB21-4	568935.8	5339395	275.8	-80.07220333
TB21-5	568921.5	5339500	278.2	-80.07237833

## Geology Observations

ObservationID	Sampler	Elevation	GPS_X	GPS_Y
134	Jim	282.7	-80.0695	48.20580167
135	Jim	282.4	-80.0695	48.205735
136	Jim	280.7	-80.0702	48.20622667
137	Jim	275.4	-80.0713	48.20451667
138	Jim	275.8	-80.0722	48.20404333
139	Jim	292	-80.0726	48.20394
140	Jim	285.4	-80.073	48.20388833
141	Jim	286.7	-80.0732	48.20389833
142	Jim	282.5	-80.0723	48.20488333
143	Jim	284	-80.0719	48.20565667

## Structural Observations

KeyID	GPSX	GPSY	Elevation	Structure
28	-80.0695	48.20568	278.6	Vein>1cm
29	-80.0695	48.20568	278.6	Veinlet<1cm
30	-80.0713	48.20451	278	Veinlet<1cm
31	-80.0713	48.20451	278	Veinlet<1cm
32	-80.0721	48.20409	273.6	Fault







**Geology Observation 135: Basalt with quartz-carbonated veining**

CLIENT NAME: ROBERT DILLMAN  
8901 REILY DRIVE  
MOUNT BRYDGES, ON N0L 1W0  
519-264-9278

ATTENTION TO: ROBERT DILLMAN

PROJECT:

AGAT WORK ORDER: 20T626199

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jul 27, 2020

PAGES (INCLUDING COVER): 8

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



### Certificate of Analysis

AGAT WORK ORDER: 20T626199

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

#### (200-) Sample Login Weight

DATE SAMPLED: Jul 16, 2020	DATE RECEIVED: Jul 16, 2020	DATE REPORTED: Jul 27, 2020	SAMPLE TYPE: Rock
<b>Analyte:</b>	Sample Login Weight		
<b>Unit:</b>	kg		
<b>Sample ID (AGAT ID)</b>	<b>RDL:</b>	0.01	
RS-1 (1279153)		1.8605	
RS-2 (1279154)		1.0561	
RS-3 (1279155)		1.7911	
RS-4 (1279156)		2.2536	
RS-5 (1279157)		2.4434	
RS-6 (1279158)		2.8404	
RS-7 (1279159)		0.7201	
RS-8 (1279160)		1.2456	
RS-9 (1279161)		2.4636	
RS-10 (1279162)		1.5567	
RS-11 (1279163)		0.7494	

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

**Certified By:**



**AGAT** Laboratories

### Certificate of Analysis

AGAT WORK ORDER: 20T626199

PROJECT:

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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

DATE SAMPLED: Jul 16, 2020

DATE RECEIVED: Jul 16, 2020

DATE REPORTED: Jul 27, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
RS-1 (1279153)				0.004
RS-2 (1279154)				0.004
RS-3 (1279155)				0.003
RS-4 (1279156)				0.003
RS-5 (1279157)				0.014
RS-6 (1279158)				0.006
RS-7 (1279159)				0.003
RS-8 (1279160)				0.002
RS-9 (1279161)				0.203
RS-10 (1279162)				0.012
RS-11 (1279163)				0.006

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

**Certified By:**



**AGAT** Laboratories

### Certificate of Analysis

AGAT WORK ORDER: 20T626199  
PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

#### Sieving - % Passing (Crushing)

DATE SAMPLED: Jul 16, 2020	DATE RECEIVED: Jul 16, 2020	DATE REPORTED: Jul 27, 2020	SAMPLE TYPE: Rock
Analyte: Pass %	Unit: %		
Sample ID (AGAT ID)	RDL: 0.01		
RS-1 (1279153)	79.23		

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

**Certified By:**



**AGAT** Laboratories

### Certificate of Analysis

AGAT WORK ORDER: 20T626199

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

#### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Jul 16, 2020

DATE RECEIVED: Jul 16, 2020

DATE REPORTED: Jul 27, 2020

SAMPLE TYPE: Rock

Analyte: Pass %

Unit: %

Sample ID (AGAT ID) RDL: 0.01

RS-1 (1279153) 88.04

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

**Certified By:**



**Quality Assurance - Replicate**  
 AGAT WORK ORDER: 20T626199  
 PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	REPLICATE #1				REPLICATE #2										
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD							
Au	1279153	0.0038	0.0031	20.3%	1279163	0.006	0.005	18.2%							



**Quality Assurance - Certified Reference materials**

AGAT WORK ORDER: 20T626199

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

CRM #1 (ref.GS4E)														
Parameter	Expect	Actual	Recovery	Limits										
Au	4.19	4.19	100%	90% - 110%										



## Method Summary

CLIENT NAME: ROBERT DILLMAN

AGAT WORK ORDER: 20T626199

PROJECT:

ATTENTION TO: ROBERT DILLMAN

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Solid Analysis</b>			
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE