

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 – 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

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**ASSESSMENT REPORT**

describing

**ROCK AND SOIL GEOCHEMICAL SAMPLING, AND HAND TRENCHING**

Field work performed from July 29 to August 14, 2017

at the

**VAULT PROPERTY**

Vault 1-180      YD56961 – YD57140

NTS 115G/05 and 115G/12  
Latitude 61°31'N; Longitude 139°36'W

located in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

K. Willms, B.Sc.

January 2018

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## **INTRODUCTION**

The Vault property is located in the Kluane area of southwestern Yukon. It covers gold-bearing drainages that host placer deposits, mineralized veins and exceptional gold-in-soil geochemical anomalies. Strategic Metals Ltd. holds a 100% interest in the property.

This report describes a rock and soil geochemical sampling, and hand trenching program performed by Archer, Cathro & Associated (1981) Limited on behalf of Strategic Metals. Field work was performed from July 29 to August 14, 2017. The author did not partake in the exploration program, but he did interpret all results from this work. The author's Statement of Qualifications is located in Appendix I, while a Statement of Expenditures appears in Appendix II.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The Vault property is located in southwestern Yukon, at latitude 61°31' north and longitude 139°36' west on NTS map sheets 115G/05 and 115G/12 (Figure 1). It comprises 180 contiguous quartz claims that cover an area of approximately 3590 hectares (35.9 km<sup>2</sup>). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are given below, while the locations of individual claims are illustrated on Figure 2.

| <u>Claim Name</u> | <u>Grant Number</u> | <u>Expiry Date*</u> |
|-------------------|---------------------|---------------------|
| Vault 1-180       | YD56961 – YD57140   | July 15, 2020       |

\* Expiry date does not include 2017 work which has not yet been filed for assessment credit.

The Vault property lies within the traditional territories of the Kluane (KFN) and White River (WRFN) First Nations. KFN has concluded land claim agreements with Canada and Yukon, but WRFN has not. The property is subject to Class 1 Land Use Notifications.

## **HISTORY AND PREVIOUS WORK**

Placer gold operations have been recorded since 1903 on creeks that drain the property. Official production records are not available prior to 1940, but extensive workings on creeks throughout the area suggest substantial work during two gold rushes: from 1903 to 1904 and in the 1920s and 1930s (Tremblay, 2000, 2001). Hard rock exploration in the area began after construction of the Alaska Highway in 1945.

From 1982 to 1990, placer and quartz claims were staked along Reed and Swede Johnson creeks by independent miners. Some placer workings are still in operation, and quartz claims related to those workings form embayments into the Vault property.

In 1952, independent prospector E. Flynn staked groups of claims around Swede Johnson Creek. Subsequent prospecting and mapping revealed copper-stained float and coal seams on the claims (Flynn, 1953). In late 1952, Flynn's claims were transferred to New Algers Mines Ltd., which

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FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION**  
VAULT PROPERTY

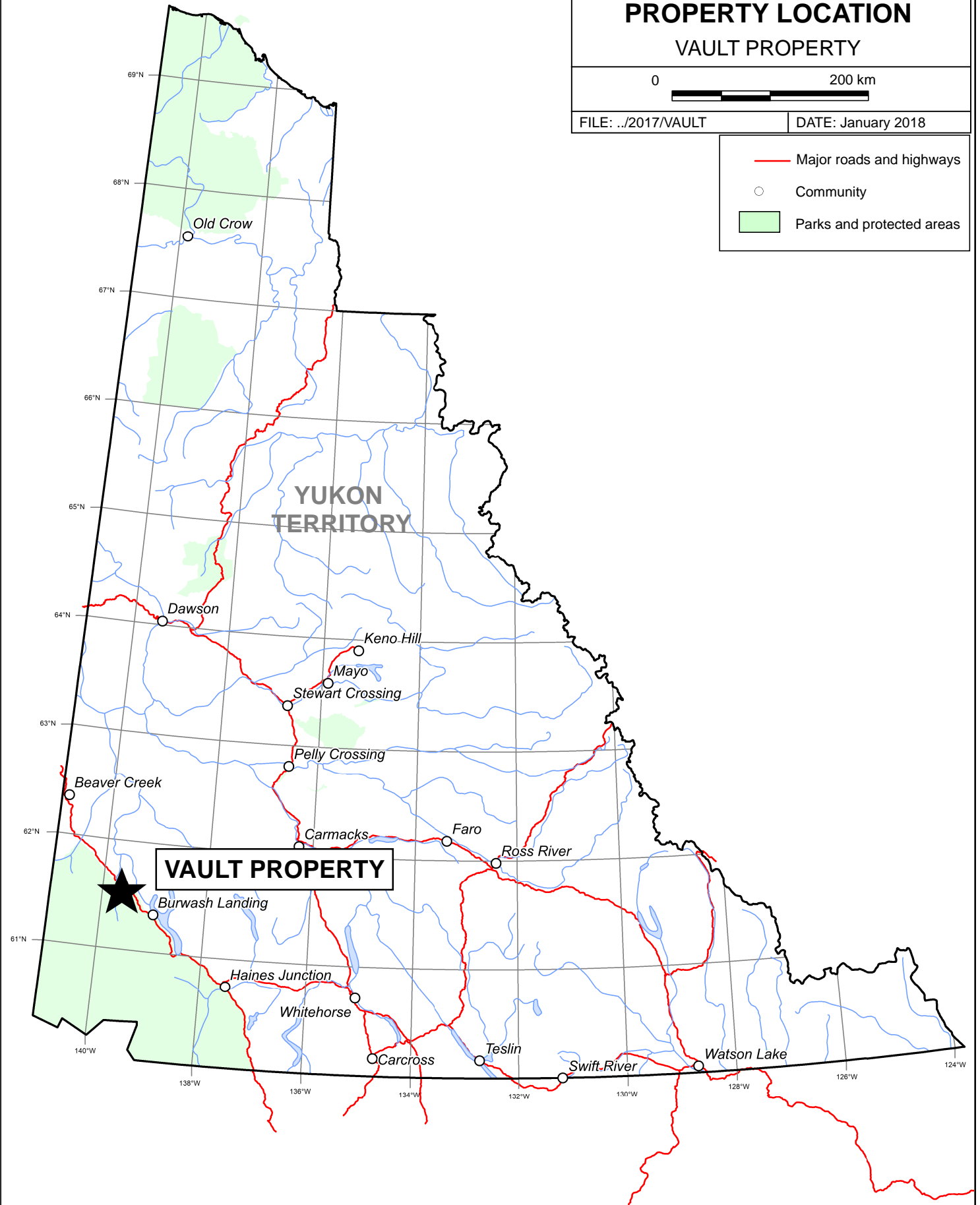
0 200 km

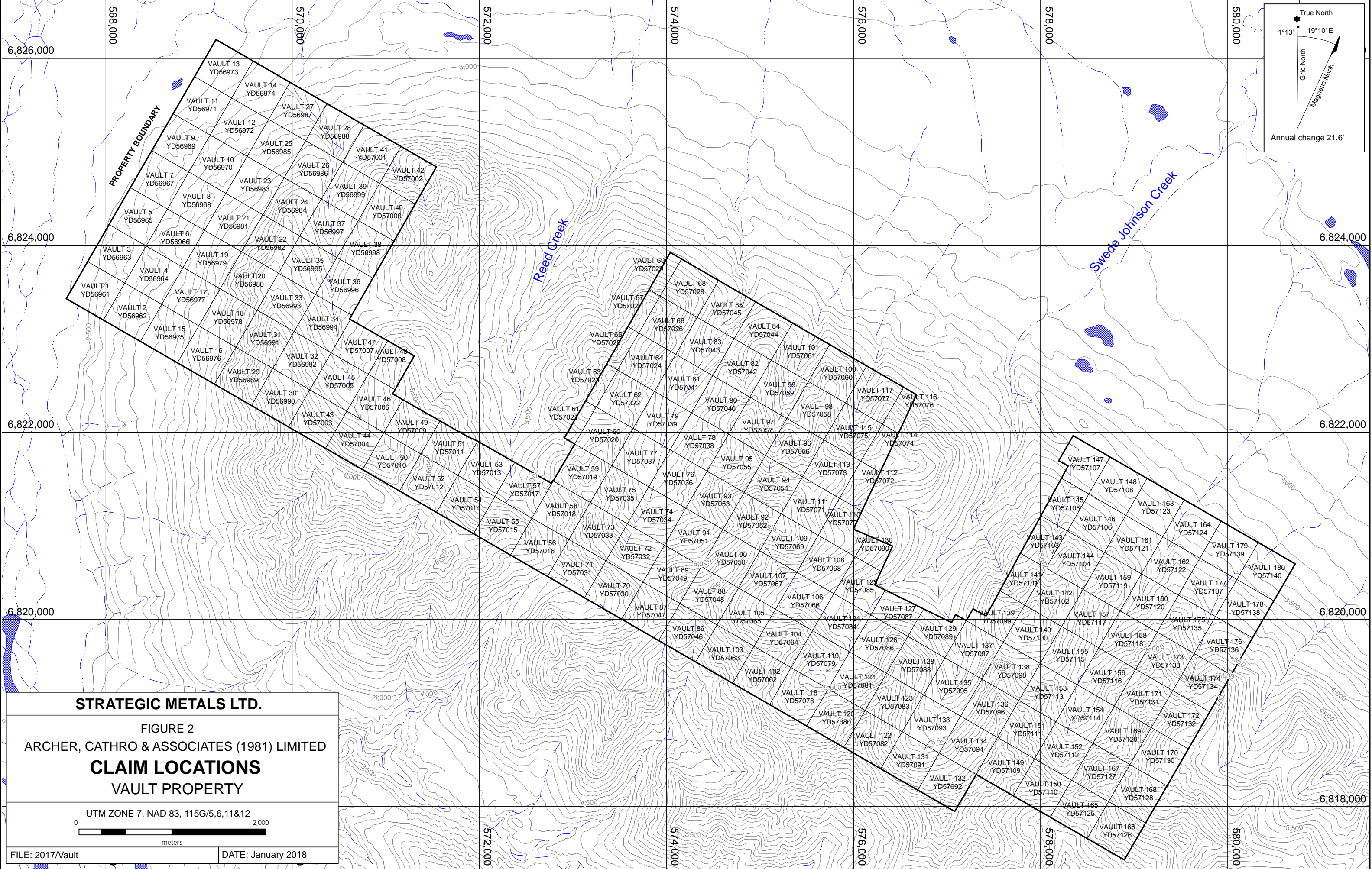


FILE: ../2017/VAULT

DATE: January 2018

- Major roads and highways
- Community
- Parks and protected areas





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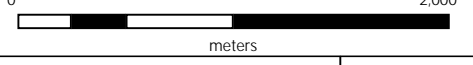
FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATIONS**

**VAULT PROPERTY**

UTM ZONE 7, NAD 83, 115G/5,6,11&12



FILE: 2017/Vault

DATE: January 2018

had staked the Polaris and Ursus claims in the area (Figure 3). Prospecting by New Algers Mines discovered pyrite, pyrrhotite, chalcopyrite, galena, sphalerite and magnetite in float throughout the area (Tair, 1953). This mineralization is collectively referred to as the Swede Johnson occurrence.

Also in 1952, Teck Exploration Company Ltd. staked the Musketeer and Conwest nickel-copper showings as the Musketeer claim group, part of which is now covered by the current Vault claims (Figure 3). Geological mapping and prospecting were carried out in 1953, but no results were reported (Vanwermeskerken, 2001).

In 1955, Teck conducted electromagnetic and magnetometer surveys on the Musketeer claims. Several anomalies were defined by the EM survey, but the cause of anomalies was not identified. A resistivity survey was performed to follow up these surveys. Teck concluded the anomalies were linked to weakly disseminated sulphide minerals (Walker, 1955 and 1956).

In 1980 and 1981, Archer Cathro did regional-scale exploration in selected parts of Yukon on behalf of the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. Prior to commencing field work, NAT JV reanalysed over 5,000 previously collected geochemical sample splits for gold, silver, arsenic and lead. A total of 16 soil samples and 44 stream sediment samples were reanalyzed from the current Vault property, returning up to 135 ppb and 425 ppb gold, respectively (Archer and Onasick, 1980 and 1981).

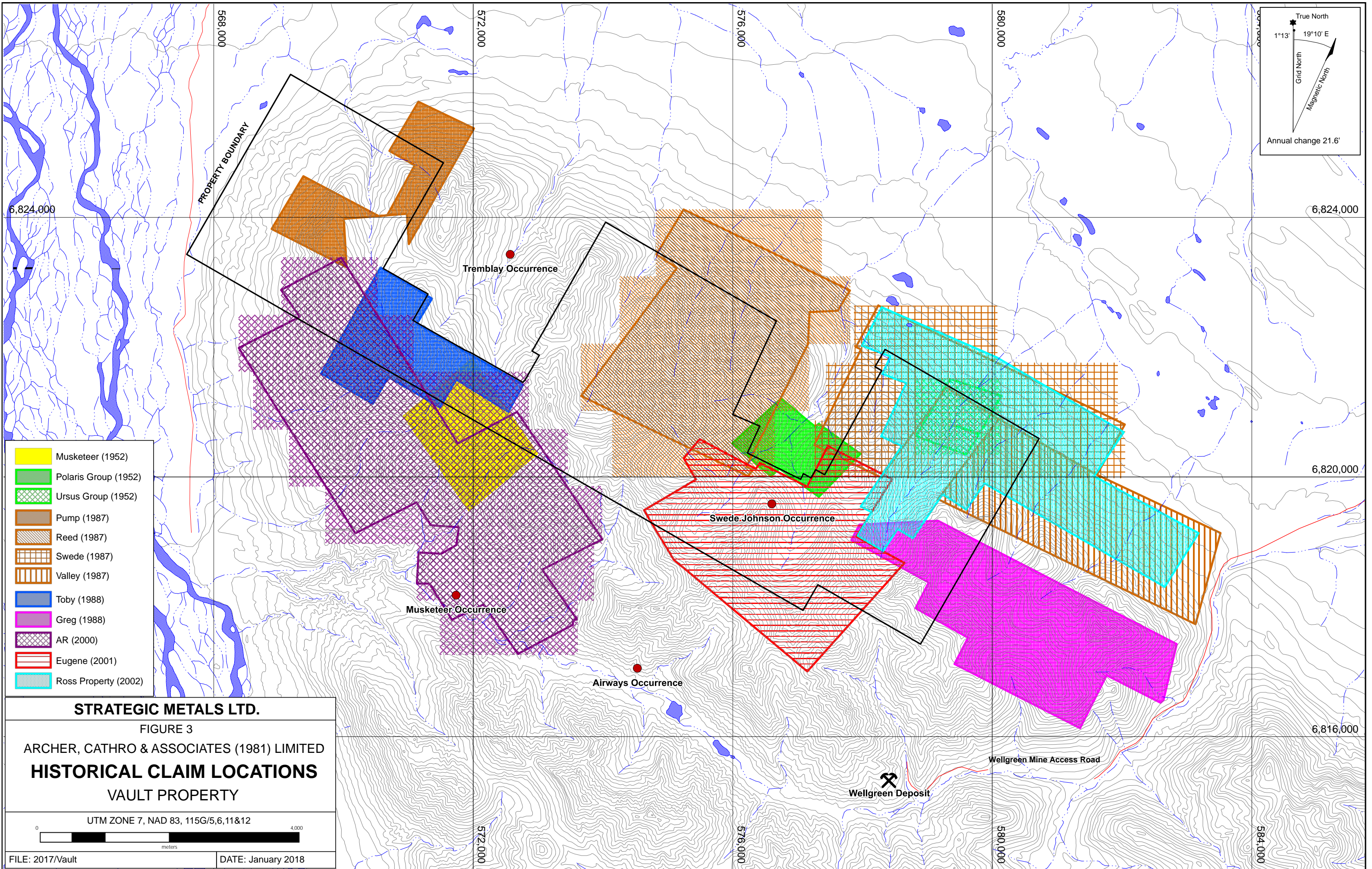
In 1983, AGIP Canada Ltd. staked claims north of the Swede Johnson occurrence. No record of work is available and the claims were allowed to lapse.

In 1986, prospector L. Smith re-staked the AGIP claims and performed a trenching program. No results are available for this work.

In 1986, Kluane Joint Venture (KJV), comprised of Chevron Minerals Ltd. and All-North Resources Ltd., staked and optioned claims to form the Arch property, which covered the Musketeer showing and extended north to encompass part of the current Vault property. Later in the year, KJV entered into option agreements with Pak-Man Resources Inc. and Rockridge Mining Corp.

In 1987, Pak-Man Resources, Rockridge Mining and KJV staked additional claims and conducted mapping, soil sampling and rock sampling on the Eugene claims, an area overlapping part of the current Vault claims. Strongly anomalous values (up to 10,000 ppb gold) were returned from three consecutive soils samples over a 75 m strike length, below a quartz-carbonate alteration zone developed in pyroclastic volcanic rocks (Eaton, 1988).

Also in 1987, Reed Creek Joint Venture (RCJV) staked the Valley, Reed, Pump and Swede claims to cover an aeromagnetic anomaly coinciding with a regionally extensive ultramafic sill, similar in age to a sill that hosts nickel-copper-platinum group element (PGE) mineralization at the nearby Wellgreen deposit. Work on the RCJV claims consisted of geological mapping, reconnaissance prospecting and geochemical sampling. Prospecting identified glacially



transported ultramafic or gabbro float. Soil and stream sediment sampling returned sporadic gold anomalies (up to 350 ppb gold-in-soil), along with elevated copper and platinum values (Carne, 1988).

Also in 1987, D.E. Makkonen staked the Toby claims in the headwaters of Reed Creek. A total of 62 soil samples were collected along the ridgeline and on contour lines. The two best samples returned 133 ppb and 125 ppb gold with 350 ppm and greater than 1,000 ppm arsenic, respectively (Makkonen, 1988).

Also in 1987, independent miner Bill Zikos staked the Greg claims which extended onto the southeastern corner of the current Vault property. A prospecting and reconnaissance sampling program was conducted later that year. This program returned up to 104 ppb gold, but all samples were collected from outside of the current property boundary (Davidson, 1988).

In 1988, Pak-Man, Rockridge and KJV prospected around soil geochemical anomalies on the Eugene claims. Float samples yielded up to 5 g/t gold, but chip samples from bedrock returned only 420 ppb gold and 479 ppm arsenic (Eaton, 1988).

From 1990 to 1992, independent miners R. McIntosh and F. Ellis staked and explored the O.K. claims. These claims were sampled by Placer Dome Exploration Ltd. in 1992, returning up to 1425 ppb gold-in-silt, 56 ppb gold-in-soil and 540 ppb gold-in-rock (Tremblay, 2000).

Between 1990 and 1994, L. and G. Smith staked claims in the area and conducted hand trenching, mechanized trenching and drilling on the Glenn, Mary, Graham and Gamble claims (YGS, 2015). No detailed work history or results are available.

From 2000 to 2002, R. McIntosh and F. Ellis, conducted work programs on the Ross property, which included the O.K., Ross, FRM, BO and NJ claims. These programs included prospecting, geochemical sampling and mapping (McIntosh and Ellis, 2000, 2001, 2003). Sampling returned a maximum of 6667 ppb gold from an undescribed rock sample, but all other samples taken returned weakly anomalous values (Tremblay, 2000).

In 2010, Strategic Metals staked the current Vault claims and undertook a prospecting and geochemical sampling program on the property. A total of 14 rock and 679 soil samples were collected. Rock samples yielded strongly anomalous gold and copper results up to 868 ppb and 16,950 ppm, respectively, from separate samples. Soil sampling returned up to 997 ppb gold, including a string of eight consecutive samples ranging from 100 to 515 ppb gold.

In 2011, Alix Resources Corp. signed an option agreement with Strategic Metals. A prospecting and geological mapping program was completed later in the year. Rock samples returned up to 1.03 g/t gold, 13.2 g/t silver and 24.49 % copper (Victorino and Ledwon, 2011). Following the work program, Alix Resources relinquished its option.

In 2015, Government of Yukon and KFN flew airborne magnetic and electromagnetic surveys across the Wellgreen nickel-copper belt, which encompassed the Vault property.

In 2015, Strategic Metals conducted a LiDAR survey over the Vault property in order to obtain more accurate topographic data for the property.

In 2016, Strategic Metals compiled exploration data onto LiDAR images in order to identify prospective areas for future programs.

### **GEOMORPHOLOGY AND CLIMATE**

The Vault property is situated along the northeastern edge of the Kluane Range about three kilometres east of the Donjek River. Creeks draining the property flow northward into the Kluane River or westward into the Donjek River. All of the streams are part of the Yukon River watershed.

The property is located in the foothills of the St. Elias Mountains and covers the north side of a west-northwesterly trending ridge system. Local terrain is characterized by long steep talus slopes separated by sharp spur ridgelines and deeply eroded creek valleys leading into a broad glacial valley. Elevations on the property range from approximately 762 to 2150 m above sea level (asl). Outcrop is abundant along ridge crests and actively eroded creek cuts.

Treeline on the property is at approximately 1350 m asl. Vegetation consists of stunted black spruce and thick moss near the valley floor, giving way to willow and black birch on lower slopes, and moss, lichen and grass on stable upper slopes. The property was glaciated during the Late Pleistocene, with alpine and regional ice sheets migrating northerly to northwesterly, up the Donjek River valley (Duk-Rodkin, 1999). Peak glacial elevation on the property reached 1300 m asl (Kennedy, personal communication, 2017).

The climate is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. The property is mostly snow free from early June to early September.

### **REGIONAL GEOLOGY**

The Vault property lies along the northeastern edge of the Wrangellia Terrane (WRT), as shown on Figure 4. The WRT represents a Pennsylvanian to Upper Jurassic oceanic plateau composed of metavolcanic, metasedimentary and metaplutonic rocks (Greene, et al, 2005). A continental-scale flood basalt event is the key characteristic of WRT, which can be traced from Vancouver Island to Alaska. The WRT was accreted to the North American craton in the Late Jurassic or Early Cretaceous.

In 2003, Gordey and Makepeace completed a Yukon-wide geological compilation that updated lithological unit names in the area. The Yukon Geological Survey (YGS) maintains a website illustrating regional geology, which is periodically updated when new information becomes available (YGS, 2017). The main lithological units are described below in Table I, while regional geology is shown on Figure 5.

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FIGURE 4

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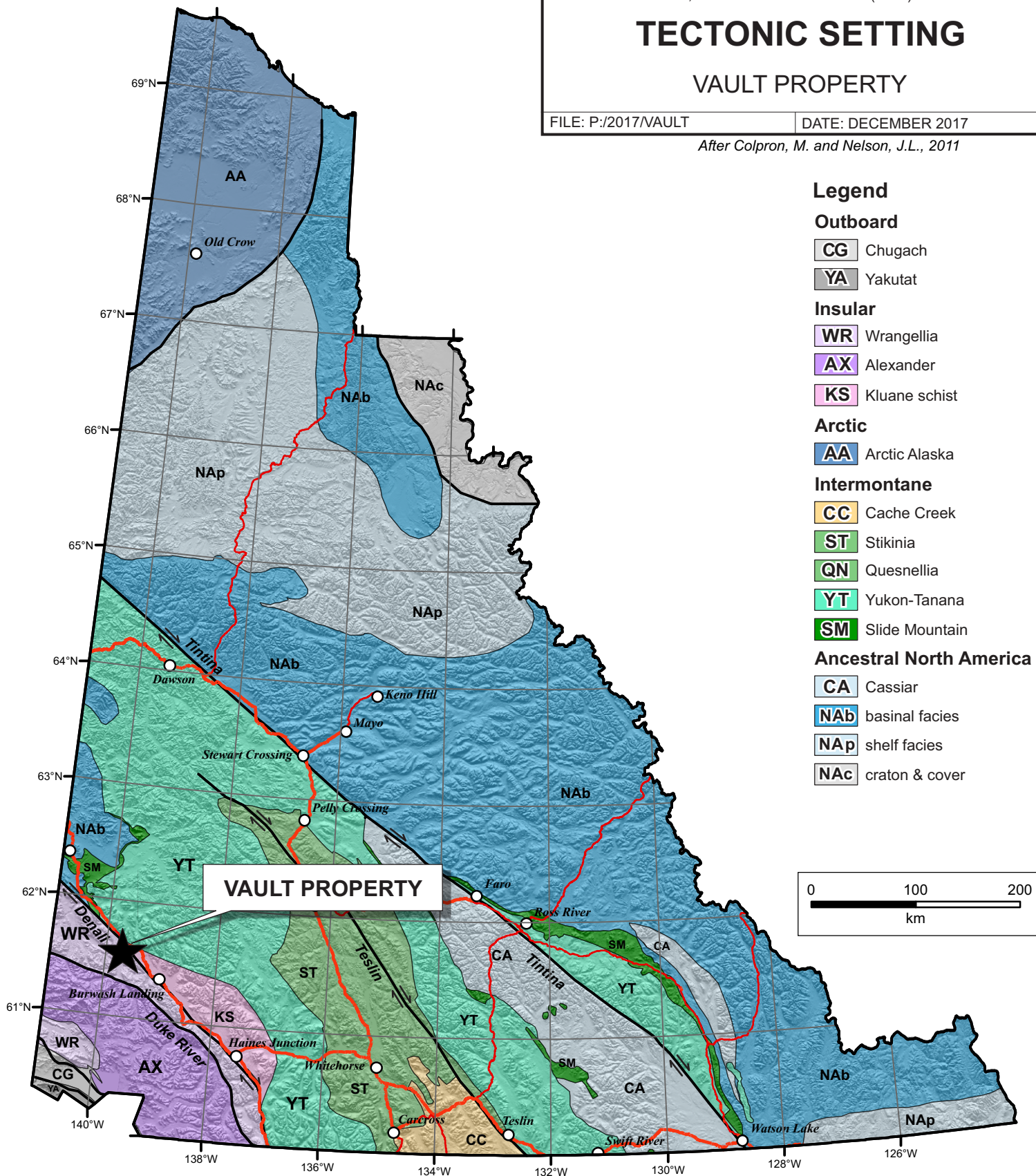
## TECTONIC SETTING

### VAULT PROPERTY

FILE: P:/2017/VAULT

DATE: DECEMBER 2017

After Colpron, M. and Nelson, J.L., 2011



#### Legend

##### Outboard

- CG Chugach
- YA Yakutat

##### Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

##### Arctic

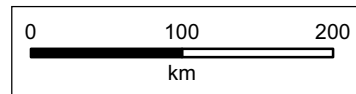
- AA Arctic Alaska

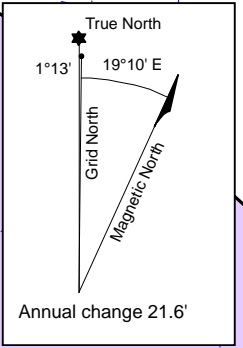
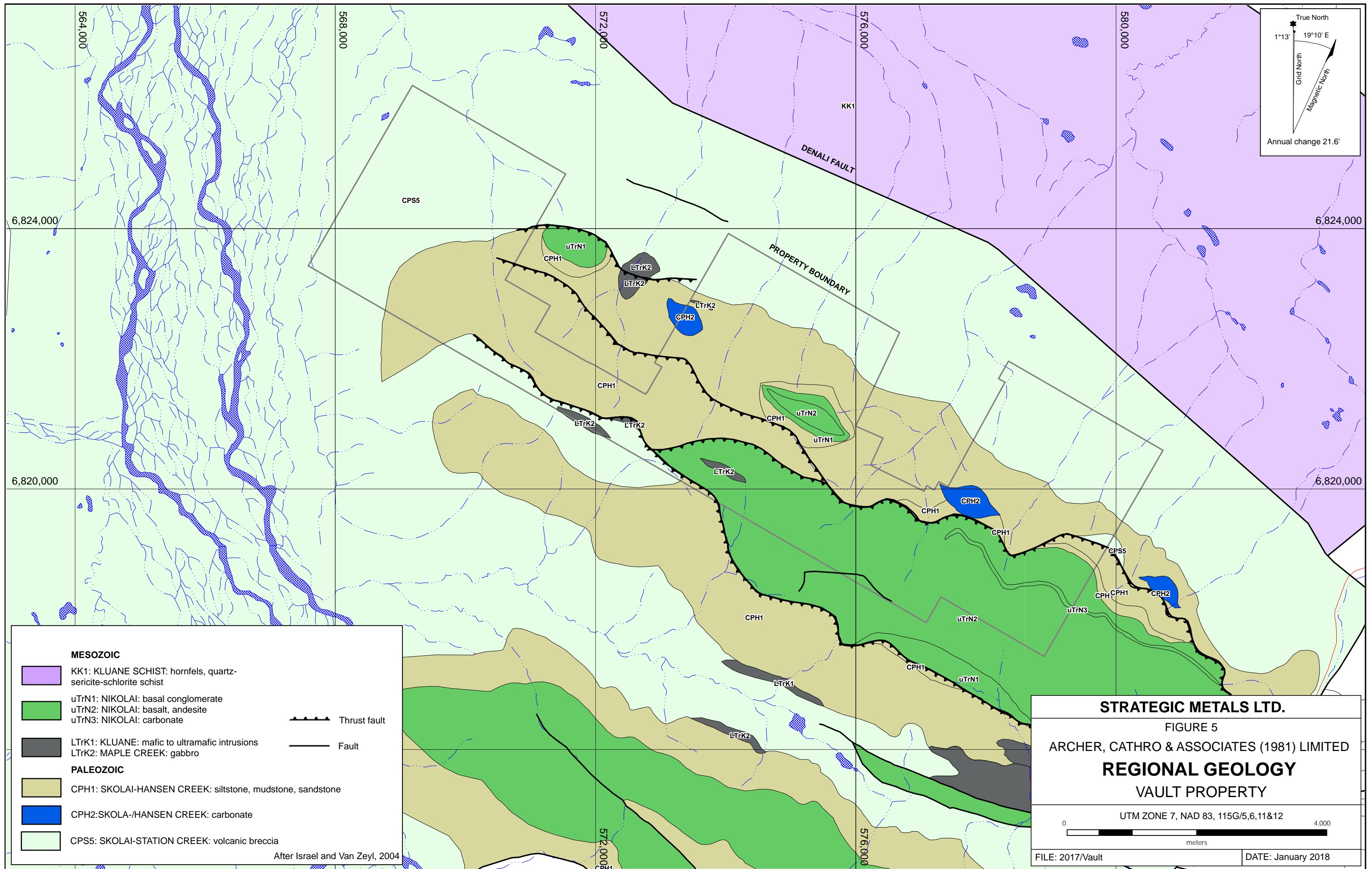
##### Intermontane

- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

##### Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover





**MESOZOIC**

- KK1: KLUANE SCHIST: hornfels, quartz-sericite-schlorite schist
- uTrN1: NIKOLAI: basal conglomerate
- uTrN2: NIKOLAI: basalt, andesite
- uTrN3: NIKOLAI: carbonate
- LTrK1: KLUANE: mafic to ultramafic intrusions
- LTrK2: MAPLE CREEK: gabbro

**PALEOZOIC**

- CPH1: SKOLAI-HANSEN CREEK: siltstone, mudstone, sandstone
- CPH2: SKOLA-/HANSEN CREEK: carbonate
- CPS5: SKOLAI-STATION CREEK: volcanic breccia

Thrust fault  
 Fault

After Israel and Van Zeyl, 2004

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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0

4,000

meters

FILE: 2017/Vault

DATE: January 2018

**Table I – Lithological Units (Gordey and Makepeace, 2003)**

| <b>Unit Name</b>        | <b>Age</b>                     | <b>Map Name</b> | <b>Description</b>   |
|-------------------------|--------------------------------|-----------------|--|
| Nikolai                 | Upper Triassic                 | UTrN1           | Basal conglomerate. Volcanic breccia, pillow lava and conglomerate at base.  |
|                         |                                | UTrN2           | Basalt, andesite. Amygdaloidal basaltic and andesitic flows, with local tuff, breccia, shale and thin-bedded bioclastic limestone (Nikolai Greenstone).  |
|                         |                                | UTrN3           | Minor limestone. Locally includes dark grey phyllite and minor thin grey Middle Triassic limestone.  |
| Kluane Ultramafic Suite | Late Triassic                  | LTrK1           | Mafic to ultramafic intrusions including peridotite and dunite. Sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics Gabbro-Diabase Sills).   |
|                         |                                | LTrK2           | Mafic to ultramafic intrusions including peridotite and gabbro. Medium grey-green, massive, medium-grained pyroxene gabbro and greenstone sills (Maple Creek gabbro).  |
| Kluane Schist           | Mesozoic                       | KK1             | Dark purplish brown staurolite-cordierite-biotite hornfels with relict schistose texture; quartz-sericite-chlorite schist; minor quartzite.  |
| Skolai – Hansen Creek   | Lower Permian to Carboniferous | CPH1            | Fine-grained clastic rocks. Interbedded dark grey and brown-weathered siltstone, mudstone and medium to coarse-grained sandstone; lower part contains volcanoclastic sandstone, tuff and rare basaltic flows; rare dark grey to black chert beds and chert-pebble conglomerate (Hansen Creek Formation). |
|                         |                                | CPH2            | Carbonate. Light to medium grey, massive to bedded limestone; locally fossiliferous; fossils include corals and crinoids.  |
| Skolai – Station Creek  | Carboniferous                  | CPS5            | Volcanic rocks succeeded upward by clastic strata including minor limestone. Laminated to thinly bedded, light grey to light green volcanic tuff and volcanoclastic siltstone; local crystal rich tuffs interbedded with fine-grained volcanic ash.  |

Regional-scale mapping shows the Vault property is underlain by a basement of Hansen Creek Formation (HCF) metasediments and Station Creek Formation (SCF) volcanic rocks. These basement rocks are capped by Nikolai Formation (NF) flood basalts, and all of these units are intruded by near-coeval northwesterly trending, peridotite to gabbro, sills and plugs belonging to the Kluane Ultramafic Suite (KUS).

The rocks within the Kluane Range were deformed during their Jurassic to Cretaceous accretion to North America and have seen later strain related to more recent movement on the Denali Fault. Numerous folds, thrust and high angle faults have been mapped.

### **PROPERTY GEOLOGY**

Property-scale geological mapping was conducted in 2011 by Alix Resources. The following description is based on this mapping, plus work completed in the Quill Creek area by the YGS, which overlaps the Vault property (Israel and Van Zeyl, 2004). Figure 6 illustrates property geology.

Detailed mapping on the Vault property generally agrees with regional-scale mapping. Meta-andesites and volcanoclastics of the SCF occur throughout much of the eastern part of the property and are overlain by HCF metasediments in the central and southwestern regions. The HCF, which underlies roughly a third of the property, is made up of phyllite, schist, slate and isolated beds of limestone that form caps along some ridgetops. In the southeastern corner of the property, NF flood basalts are found. Felsic dykes are intruded along the contacts of these basalts.

Quartz diorite and peridotite to gabbro sills and dykes of the Maple Creek Gabbro sporadically intrude all of the stratified units. In the central and northwestern parts of the property, undifferentiated plugs have been mapped near thrust faults.

Approximately 1800 m to the northeast of the Vault property, the Denali Fault, a major dextral strike-slip fault juxtaposes the Wrangellia and Kluane Schist Terranes. Along the southwestern edge of the property, a system of northwesterly trending thrust faults, which have been traced for 20 km, juxtapose NF basalts with members of the HCF and SCF. A northwesterly trending syncline has been mapped in the south-central part of the property.

### **MINERALIZATION**

Early stage exploration on the property suggests mineralization is localized within stockwork or sheeted quartz-carbonate veins, some of which have envelopes of carbonate alteration. Mineralization consists of typically fine-grained pyrite, chalcopyrite, malachite, azurite, minor arsenopyrite and hematite. Weakly disseminated sulphides have also been identified in some phyllite, schist and volcanics.

Quartz-calcite vein float containing coarse visible gold has been recovered from Reed Creek along the entire three kilometre length of the placer operation, with float ranging from fist-sized to one metre across. The source or sources of this gold-bearing float are not known with certainty, but some veins and faulted sediments exposed by the Reed Creek placer operation (Tremblay occurrence), on claims that form an embayment into the Vault property, host angular gold (Carne, 1988).

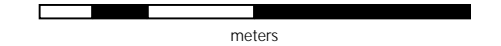
**STRATEGIC METALS LTD.**

FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

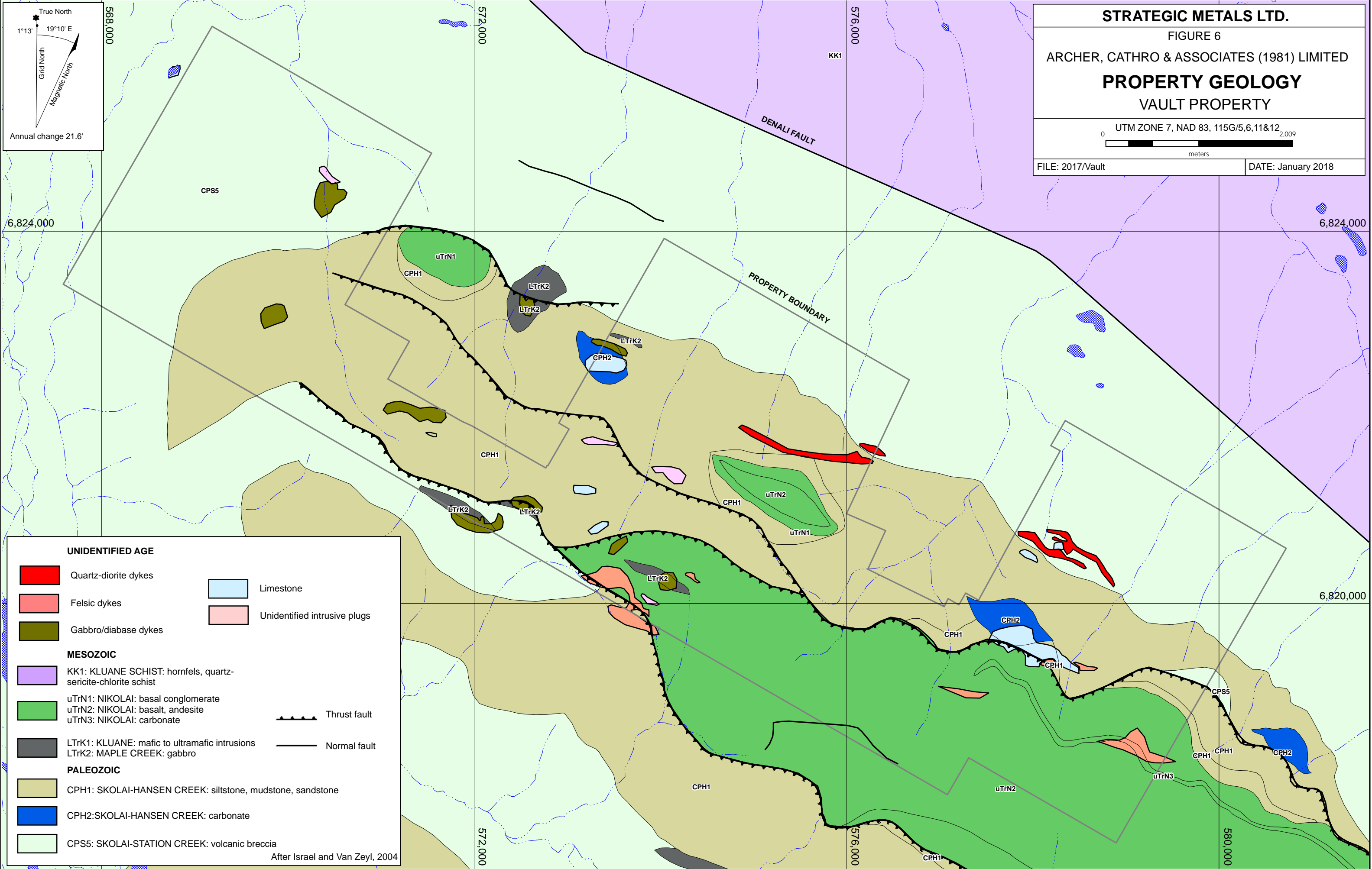
**PROPERTY GEOLOGY**  
VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12  
2,009








FILE: 2017/Vault









DATE: January 2018






**UNIDENTIFIED AGE**

-  Quartz-diorite dykes
-  Felsic dykes
-  Gabbro/diabase dykes
-  Limestone
-  Unidentified intrusive plugs

**MESOZOIC**

-  KK1: KLUANE SCHIST: hornfels, quartz-sericite-chlorite schist
-  uTrN1: NIKOLAI: basal conglomerate
-  uTrN2: NIKOLAI: basalt, andesite
-  uTrN3: NIKOLAI: carbonate
-  Thrust fault
-  Normal fault
-  LTrK1: KLUANE: mafic to ultramafic intrusions
-  LTrK2: MAPLE CREEK: gabbro

**PALEOZOIC**

-  CPH1: SKOLAI-HANSEN CREEK: siltstone, mudstone, sandstone
-  CPH2: SKOLAI-HANSEN CREEK: carbonate
-  CPS5: SKOLAI-STATION CREEK: volcanic breccia

After Israel and Van Zeyl, 2004

In 2017, a total of 52 rock samples were collected from the property. Rock sample locations are found on Figure 7, while thematic results for all rock samples are shown on Figures 8 through 10 for gold, silver and copper, respectfully.

The best rock sample, a piece of pyrite-bearing rusty quartz vein float within a sericitic phyllite, returned 8.27 g/t gold and 2.71 g/t silver. Significant results from samples collected between 2010 and 2017 are listed below, in Table II.

**Table II – Rock Sample Highlights**

| Type        | Year | Gold (ppb) | Silver (ppm) | Copper (ppm) |
|-------------|------|------------|--------------|--------------|
| Rock – grab | 2010 | 868        | 0.1          | 494          |
| Rock – grab | 2010 | 18         | 1.6          | 16,950       |
| Rock – grab | 2011 | 388        | 13.2         | 244,900      |
| Rock – grab | 2011 | 133        | 5.94         | 161,900      |
| Rock – grab | 2017 | 8270       | 2.71         | 202          |
| Rock – grab | 2017 | 17         | 15.9         | 156,500      |
| Rock – grab | 2017 | 2940       | 0.7          | 293          |
| Rock – grab | 2017 | 2290       | 0.6          | 226          |
| Rock – grab | 2017 | 1730       | 2.9          | 180          |

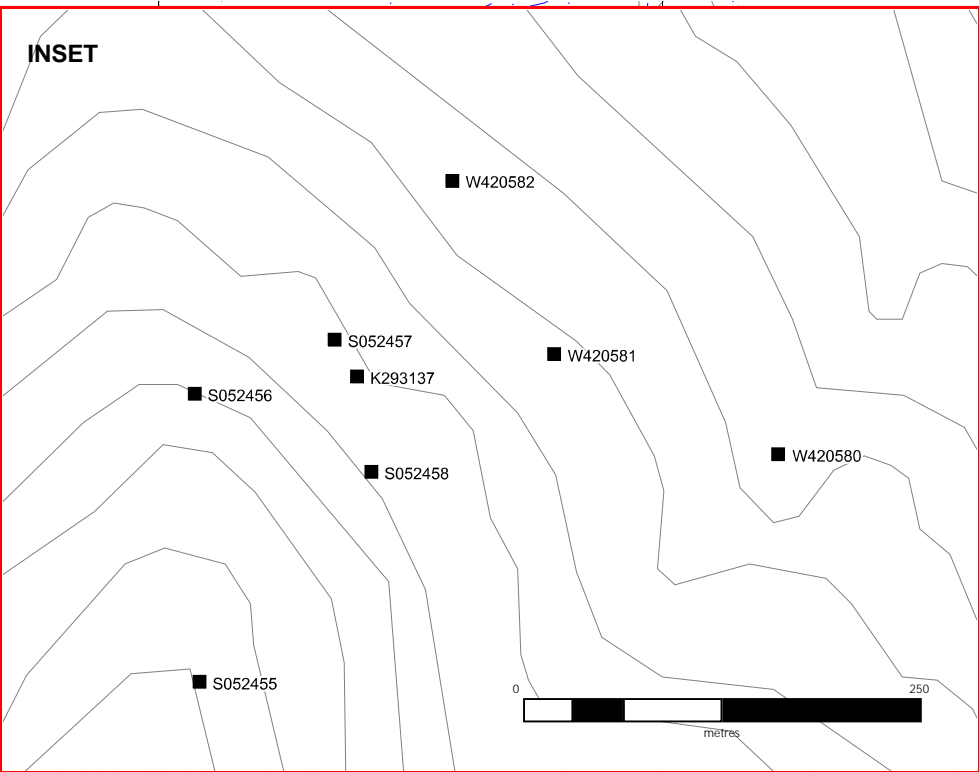
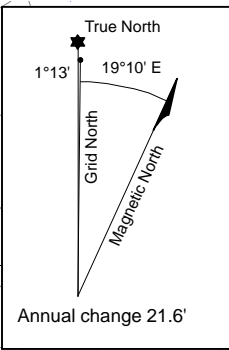
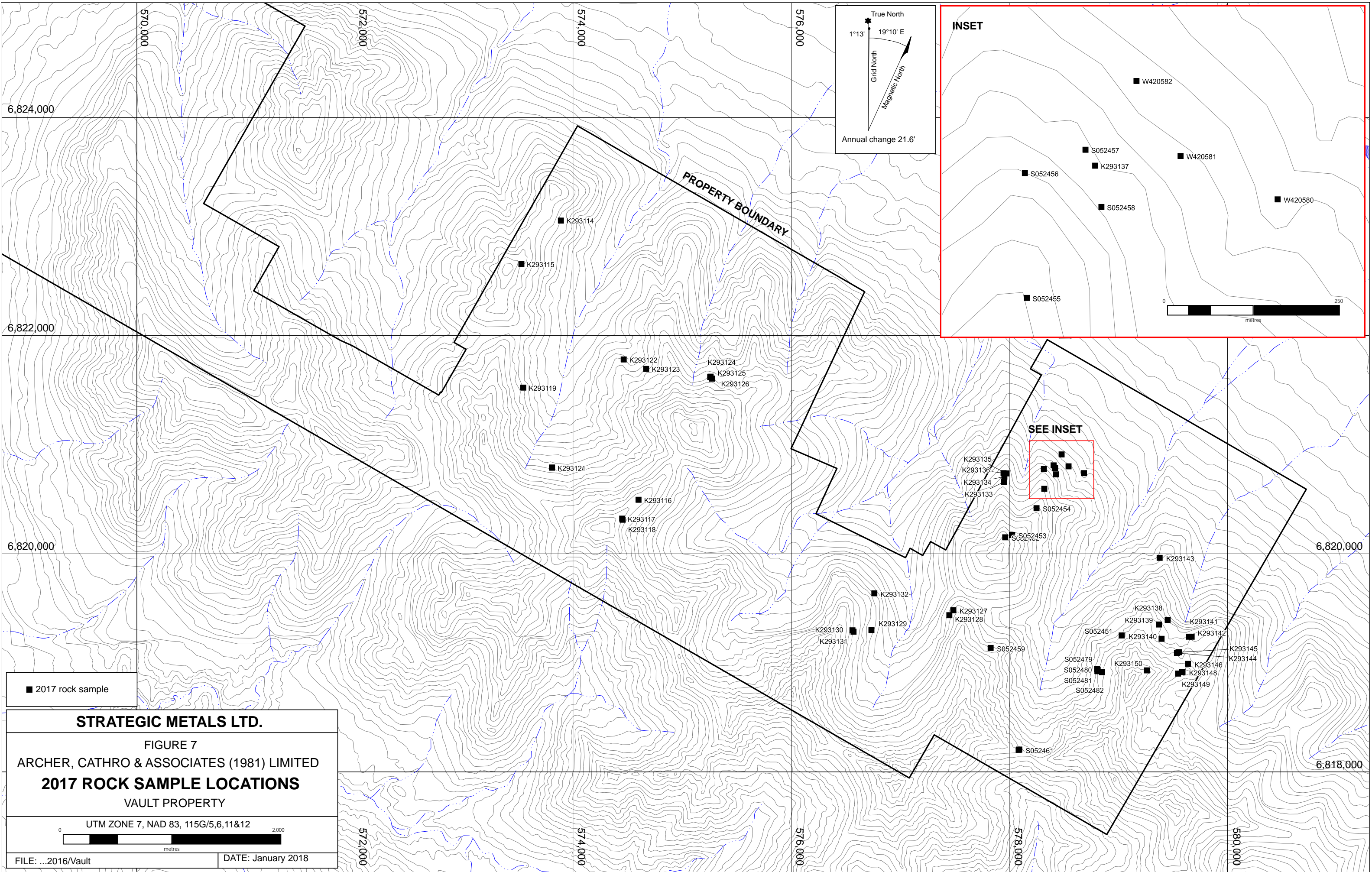
Rock sampling from 2017 yielded four samples grading more than 1 g/t gold, which were collected from three different areas on the property.

Samples from the northeastern part of the property, collected from a northwesterly trending recessive linear (Linear C), returned up to 8.27 g/t. This linear, which parallels known thrust faults, is outlined by a well-defined multi-element soil geochemical anomaly (Anomaly A).

In the southeastern part of the property, multiple samples have been collected, which exceed 1 g/t gold (up to 2.94 g/t). These samples closely follow the trace of a northwesterly trending thrust fault, and partially overlap a multi-element soil geochemical anomaly (Anomaly C) found on the hanging wall side of that fault. Rocks collected from this area in 2017 also returned up to 15.6% copper; however, copper values are not directly correlated with gold values.

In the north-central part of the property a single rock sample, collected along the trace of a northwesterly trending thrust fault, returned 1.73 g/t gold. This sample coincides with a 3000 by 1000 m soil geochemical anomaly, Anomaly D.

The 2017 rock sample sites were marked with orange flagging tape labelled with their respective sample number. The location of each sample was determined using a hand-held GPS unit. Sample preparation for 2017 rock samples was carried out by ALS Minerals in Whitehorse and then sent to North Vancouver, where the samples were dried, fine crushed to better than 70% passing -2mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41). An additional 50 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions

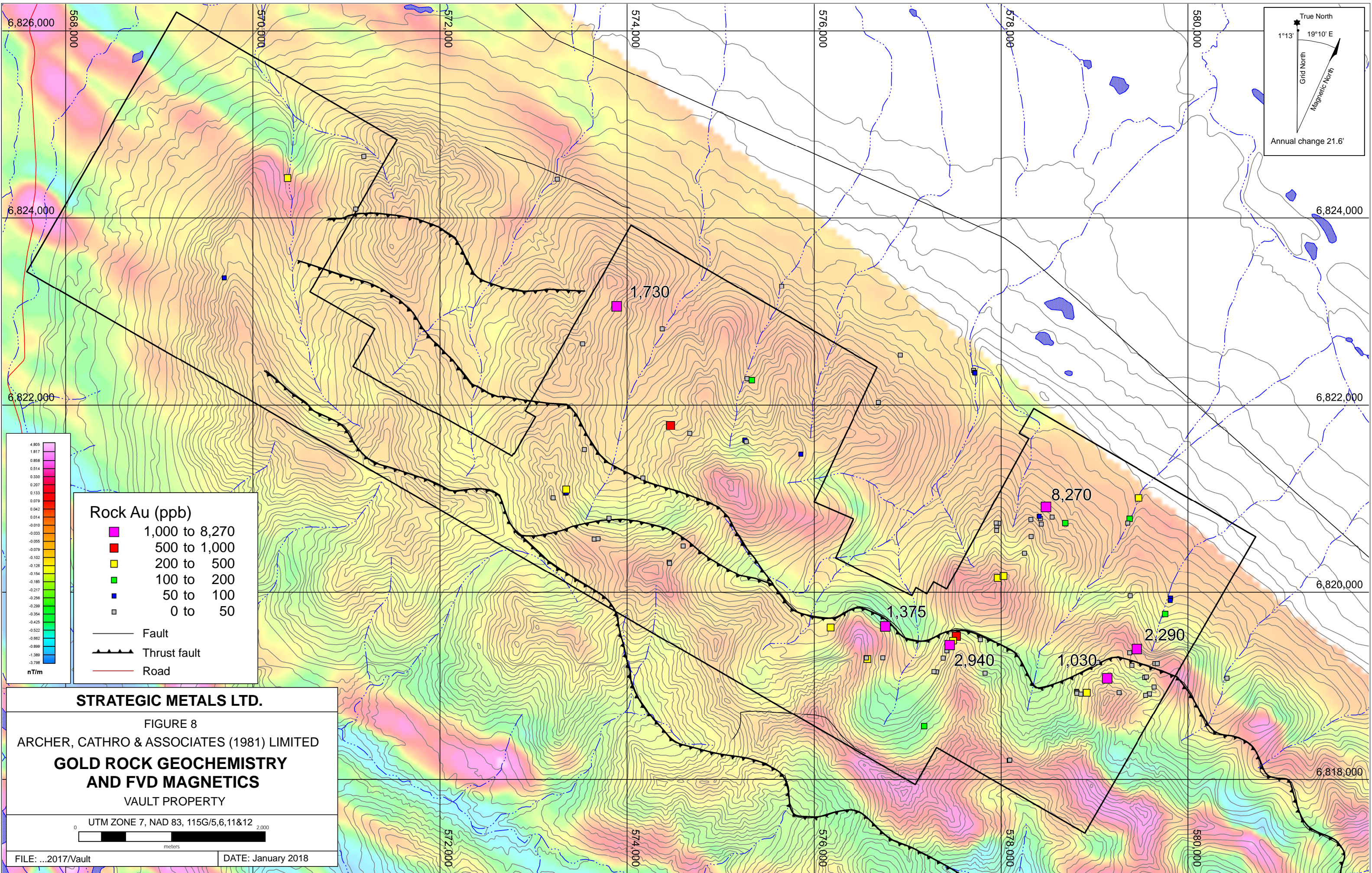


■ 2017 rock sample

**STRATEGIC METALS LTD.**  
 FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**2017 ROCK SAMPLE LOCATIONS**  
 VAULT PROPERTY

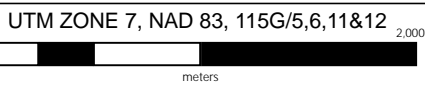
UTM ZONE 7, NAD 83, 115G/5,6,11&12

FILE: ...2016/Vault      DATE: January 2018

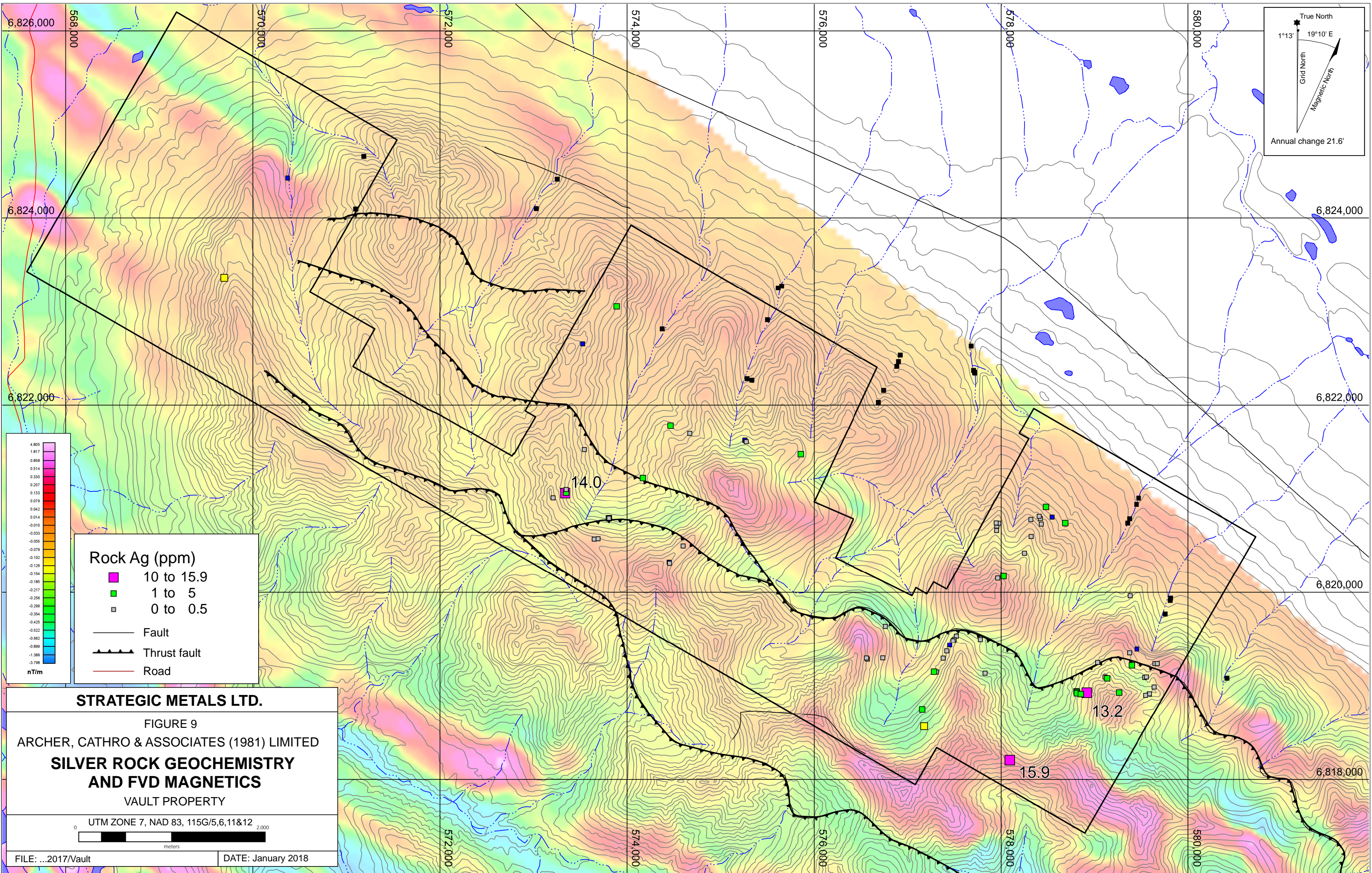


**STRATEGIC METALS LTD.**

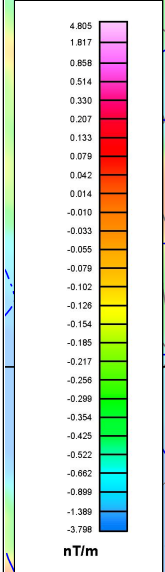
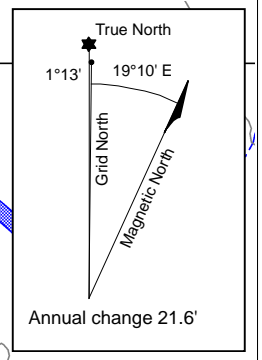
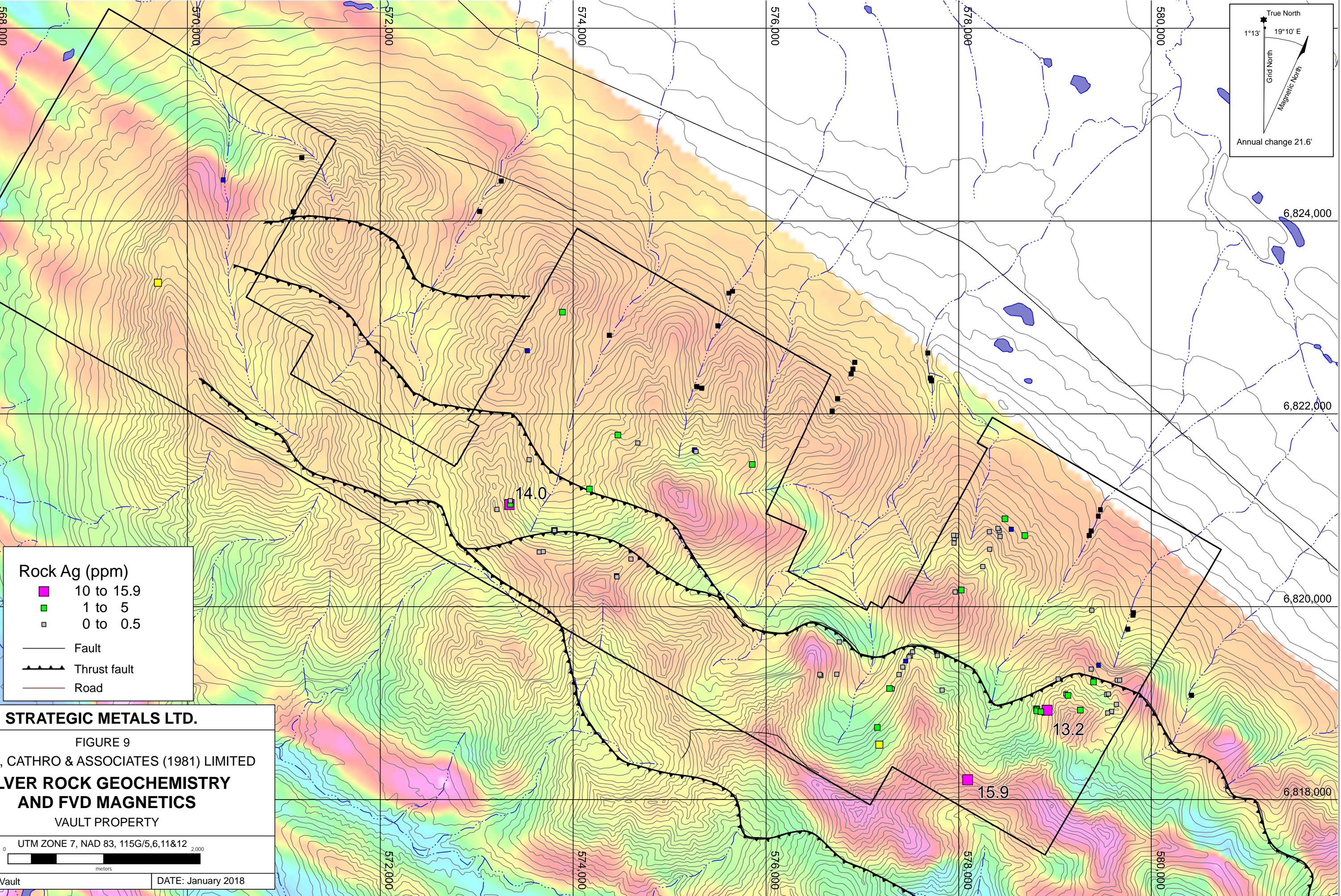
FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY



FILE: ...2017/Vault DATE: January 2018



6,826,000  
568,000  
6,824,000  
6,822,000  
6,820,000  
6,818,000



**Rock Ag (ppm)**

- 10 to 15.9
- 1 to 5
- 0 to 0.5

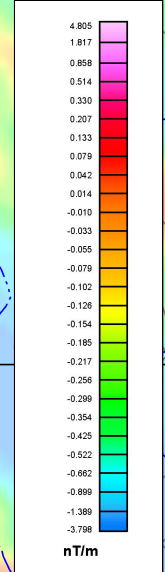
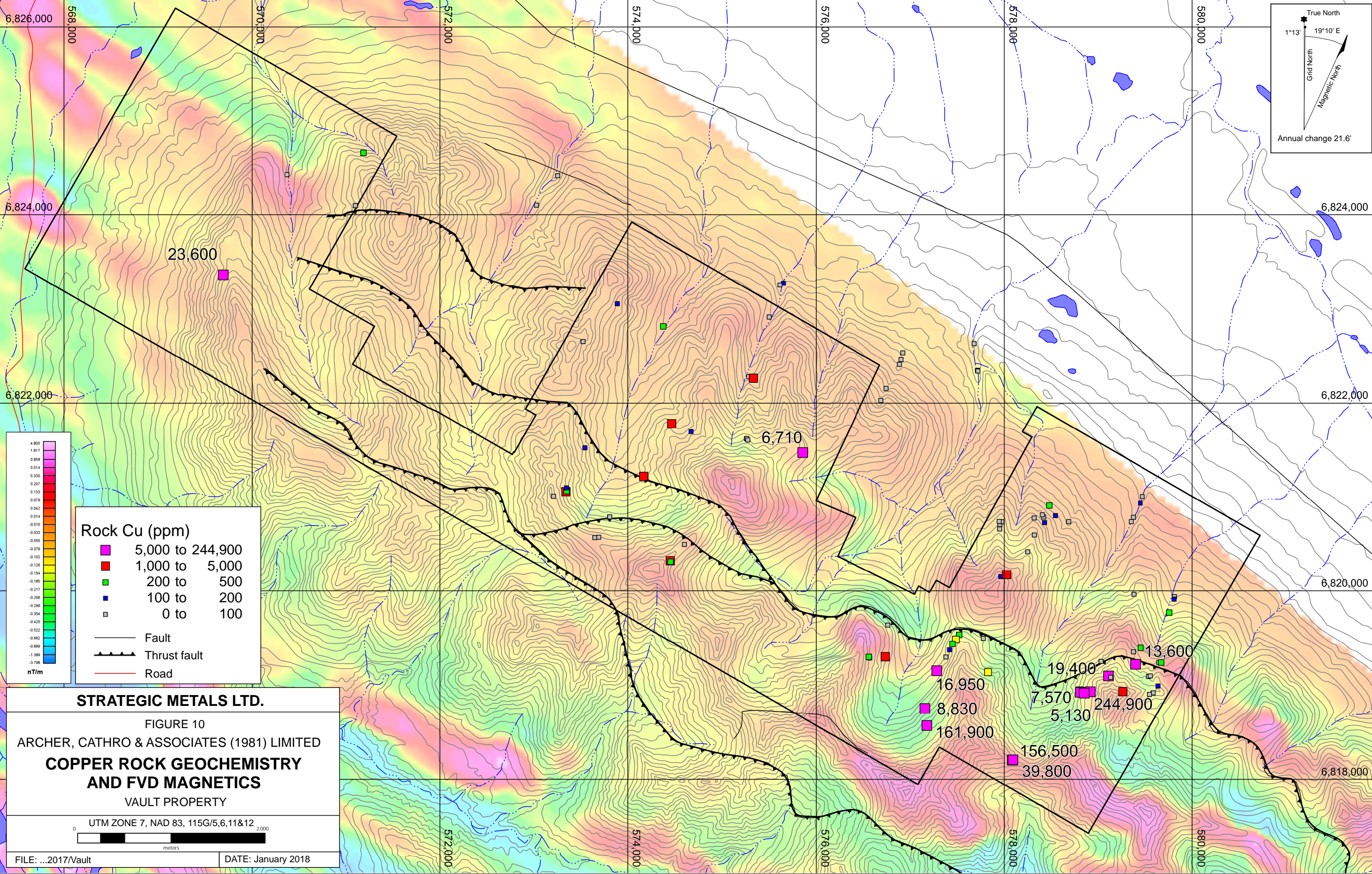
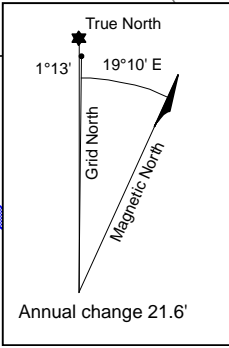
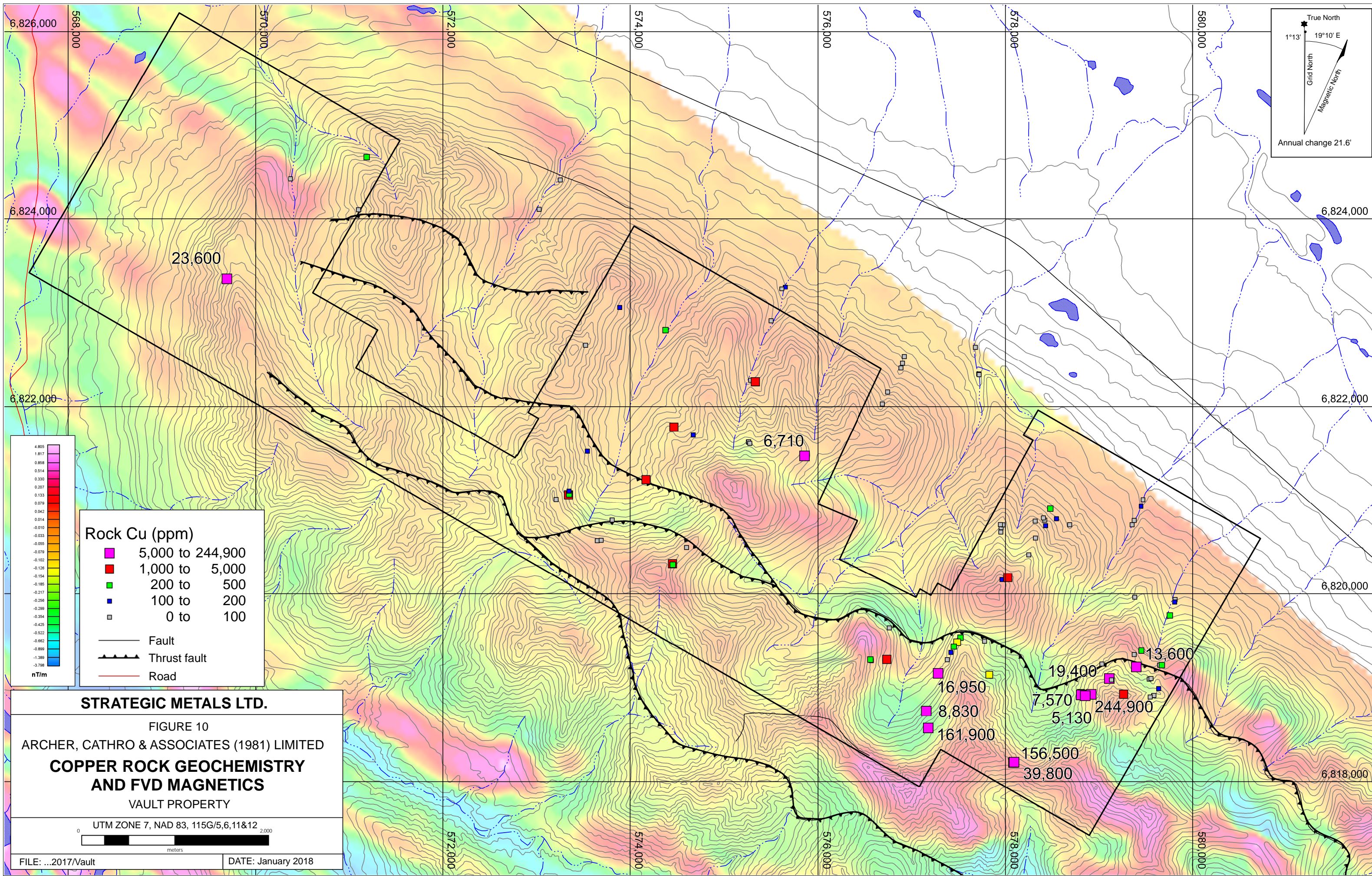
- Fault
- ▲ Thrust fault
- - - Road

**STRATEGIC METALS LTD.**

FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SILVER ROCK GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12 2,000

FILE: ...2017/Vault      DATE: January 2018



**Rock Cu (ppm)**

- 5,000 to 244,900
- 1,000 to 5,000
- 200 to 500
- 100 to 200
- 0 to 100

— Fault  
 —▲— Thrust fault  
 — Road

**STRATEGIC METALS LTD.**

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COPPER ROCK GEOCHEMISTRY AND FVD MAGNETICS**

VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

FILE: ...2017/Vault      DATE: January 2018

spectroscopy finish (Au-AA24). During geochemical analysis, select screens were checked for visible gold. Rock sample descriptions and Certificates of Analysis for 2017 rock samples can be found in Appendix III and Appendix IV, respectively.

### **SOIL GEOCHEMISTRY**

Soil geochemical surveys have been conducted on the various parts of the Vault property since 1980. In 2017, a total of 506 soil samples were collected from the eastern and central parts of the property. Soil sample locations are plotted on Figure 11, while results for gold, silver, copper and arsenic are plotted on Figures 12 to 15, respectively. Anomalous thresholds and peak values for metals of interest are listed in Table III.

**Table III – Soil Geochemical Thresholds**

| <b>Element</b> | <b>Weak</b> | <b>Moderate</b> | <b>Strong</b>  | <b>Peak results</b> | <b>2017 Peak results</b> |
|----------------|-------------|-----------------|----------------|---------------------|--------------------------|
| Gold (ppb)     | ≥ 10 < 50   | ≥ 50 < 100      | ≥ 100 > 10,000 | >10,000             | 4380                     |
| Silver (ppm)   | ≥ 0.5 < 1   | ≥ 1 < 5         | -              | 3.7                 | 3.7                      |
| Copper (ppm)   | ≥ 100 < 200 | ≥ 200 < 500     | ≥ 500 ≤ 1505   | 1505                | 1120                     |
| Arsenic (ppm)  | ≥ 50 < 100  | ≥ 100 < 200     | ≥ 200 ≤ 5990   | 5990                | 5120                     |

To date, soil sampling on the property has identified six northwesterly trending anomalies, which are described as follows.

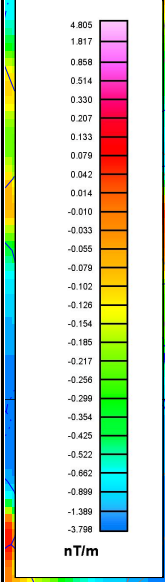
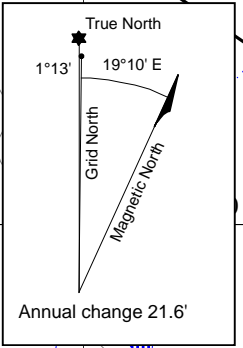
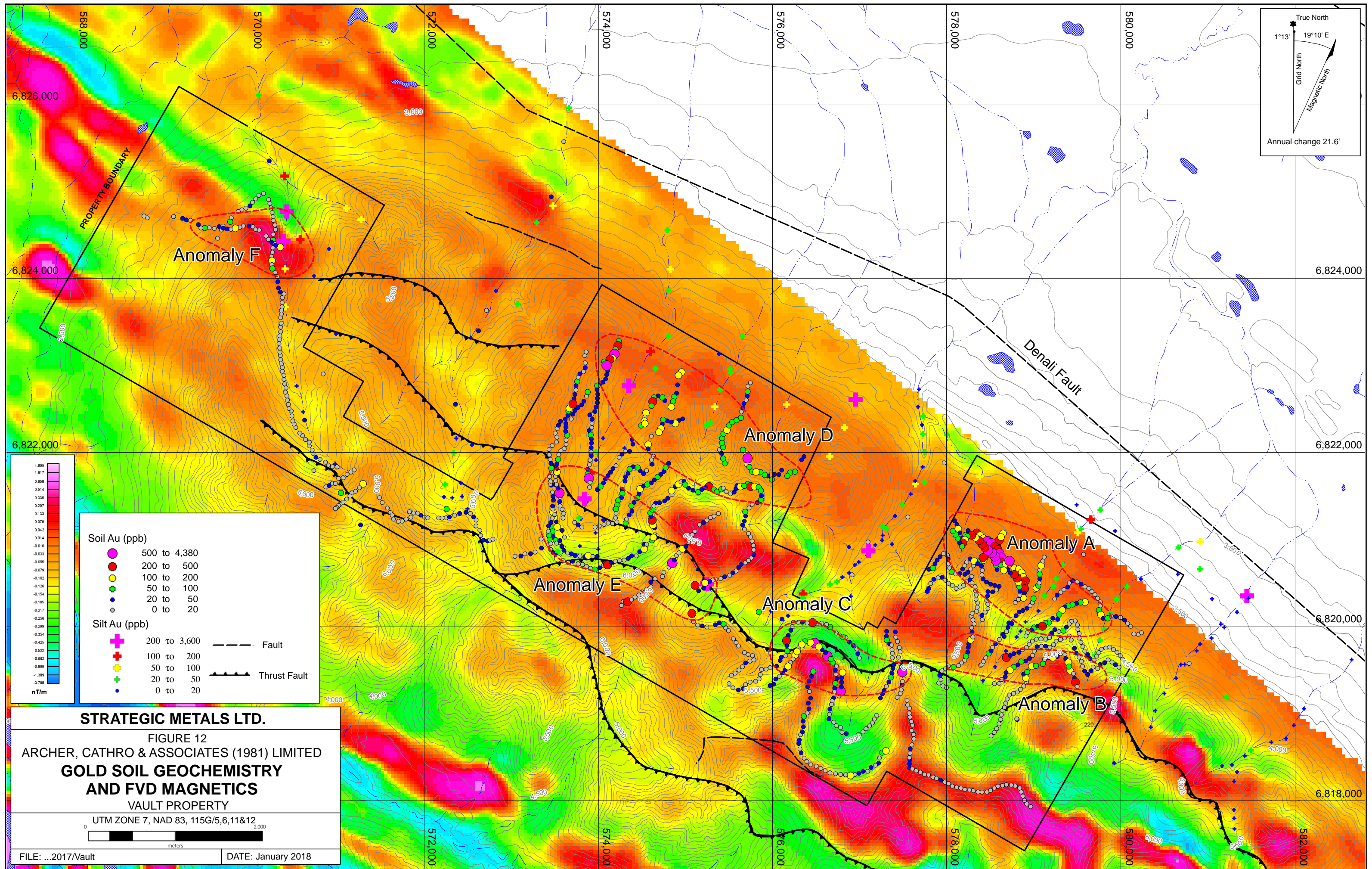
**Anomaly A** is an approximately 2200 by 1000 m area located in the eastern part of the property. The anomaly covers a northwesterly trending recessive linear (Linear C) identified in 2016. An 800 m long cluster of soil samples returned multiple samples exceeding 1000 ppb gold (up to 1120 ppb gold) along and downhill of this linear.

**Anomaly B** is an 1800 by 350 m trend that lies approximately 300 m south of Anomaly A. Peak soil results from this area are 308 ppb gold and 670 ppm copper.

**Anomaly C** is 1600 by 700 m area located along a northwesterly trending thrust fault. Soil sampling has yielded up to 1015 ppb gold, 1.2 ppm silver and 712 ppm copper from the hanging wall slopes.

**Anomaly D** is a 3000 by 1000 m area located in the north-central part of the claims. It is strongly anomalous for gold, silver and copper, with contour soil geochemical sampling yielding up to 1120 ppb, 2.8 ppm and 1485 ppm, respectively. A string of very anomalous gold-in-soil occurs on the northwestern slopes of the anomaly, and silt sampling in the creek below returned up to 3600 ppb gold.

**Anomaly E** lies 1000 m northwest of Anomaly C and is a 2300 by 1000 m area situated along the same northwesterly trending thrust fault as Anomaly B. Contour soil samples taken on slopes and ridges from the hanging wall side of the fault yielded highly anomalous gold (up to



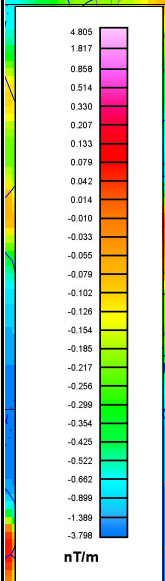
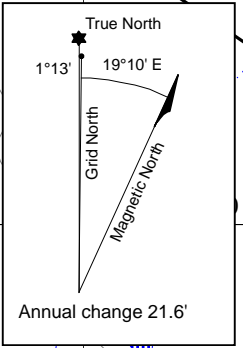
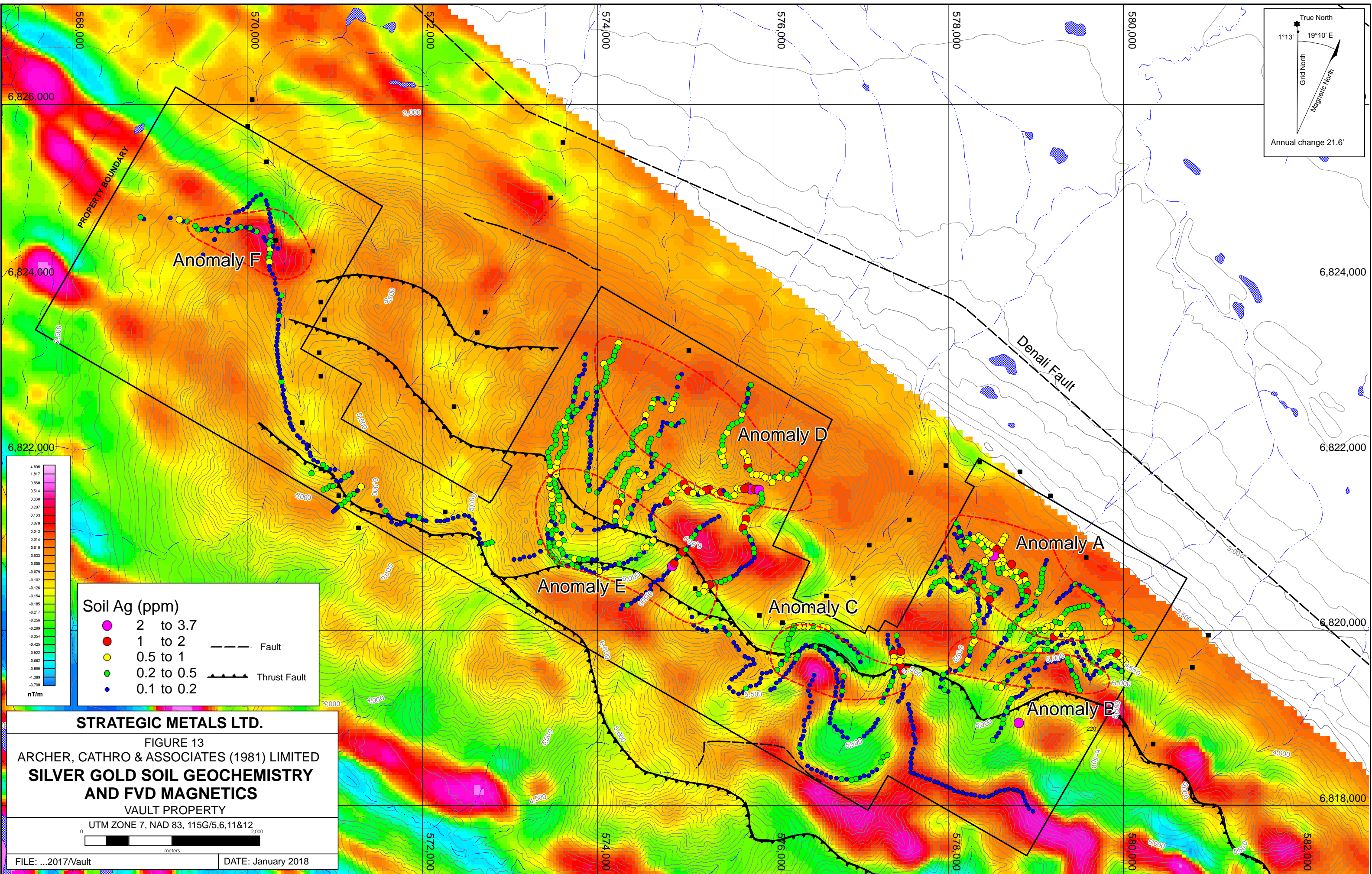
| Soil Au (ppb)                          |              |
|--|--------------|
| <span style="color: magenta;">●</span> | 500 to 4,380 |
| <span style="color: red;">●</span>     | 200 to 500   |
| <span style="color: yellow;">●</span>  | 100 to 200   |
| <span style="color: green;">●</span>   | 50 to 100    |
| <span style="color: blue;">●</span>    | 20 to 50     |
| <span style="color: grey;">●</span>    | 0 to 20      |
| Silt Au (ppb)                          |              |
| <span style="color: magenta;">+</span> | 200 to 3,600 |
| <span style="color: red;">+</span>     | 100 to 200   |
| <span style="color: yellow;">+</span>  | 50 to 100    |
| <span style="color: green;">+</span>   | 20 to 50     |
| <span style="color: blue;">+</span>    | 0 to 20      |
|  | Fault        |
|  | Thrust Fault |

**STRATEGIC METALS LTD.**

FIGURE 12  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

FILE: ...2017/Vault      DATE: January 2018



**Soil Ag (ppm)**

- 2 to 3.7
- 1 to 2
- 0.5 to 1
- 0.2 to 0.5
- 0.1 to 0.2

Fault  
 Thrust Fault

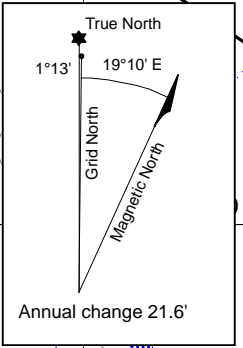
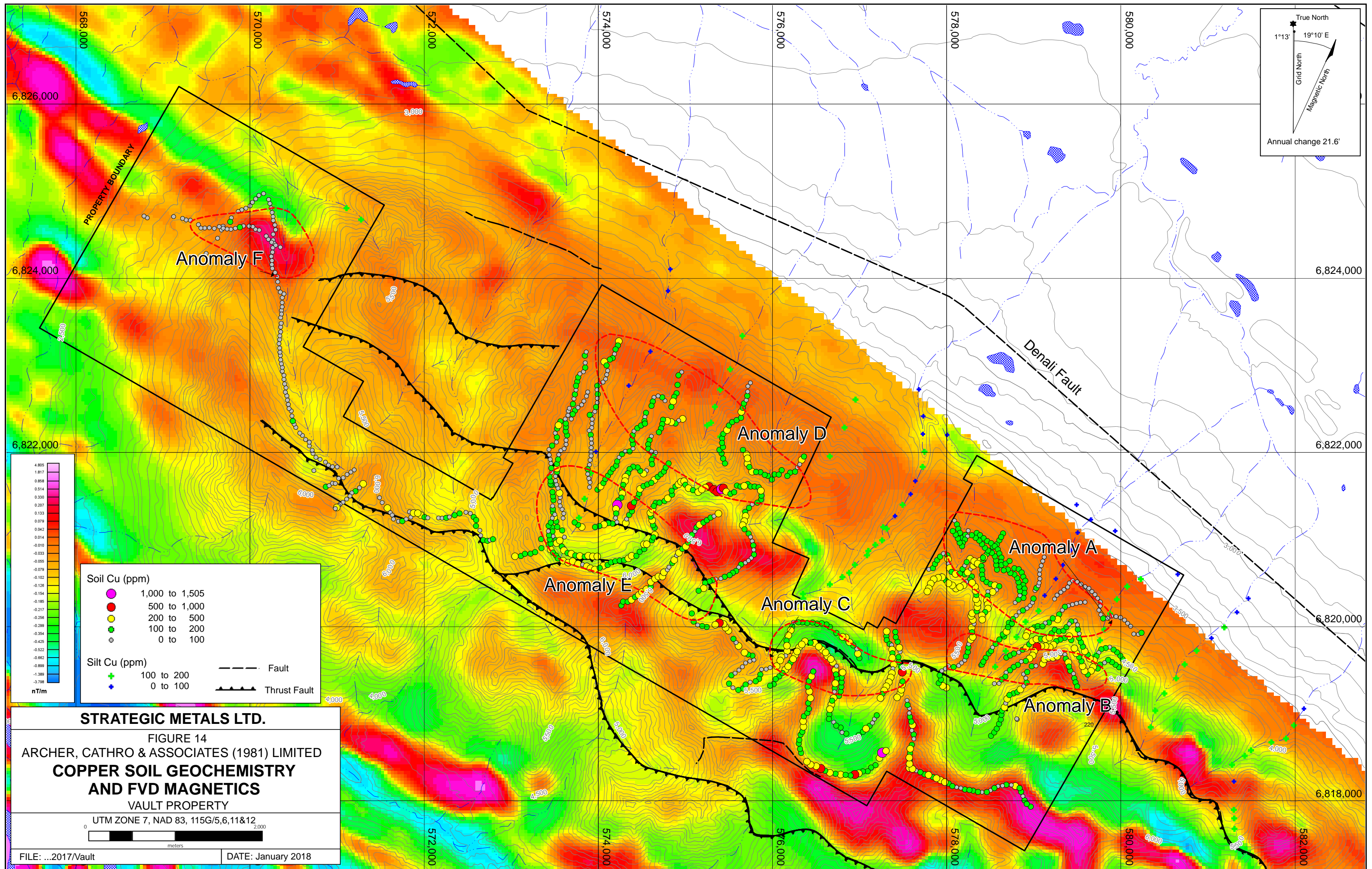
**STRATEGIC METALS LTD.**

FIGURE 13  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SILVER GOLD SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0 2,000  
 meters

FILE: ...2017/Vault      DATE: January 2018



**Soil Cu (ppm)**

- 1,000 to 1,505
- 500 to 1,000
- 200 to 500
- 100 to 200
- 0 to 100

**Silt Cu (ppm)**

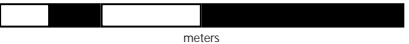
- + 100 to 200
- + 0 to 100

- Fault
- ▲▲▲ Thrust Fault

**STRATEGIC METALS LTD.**

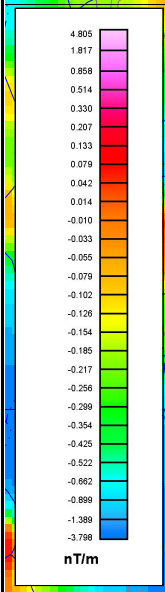
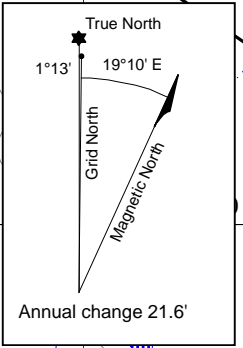
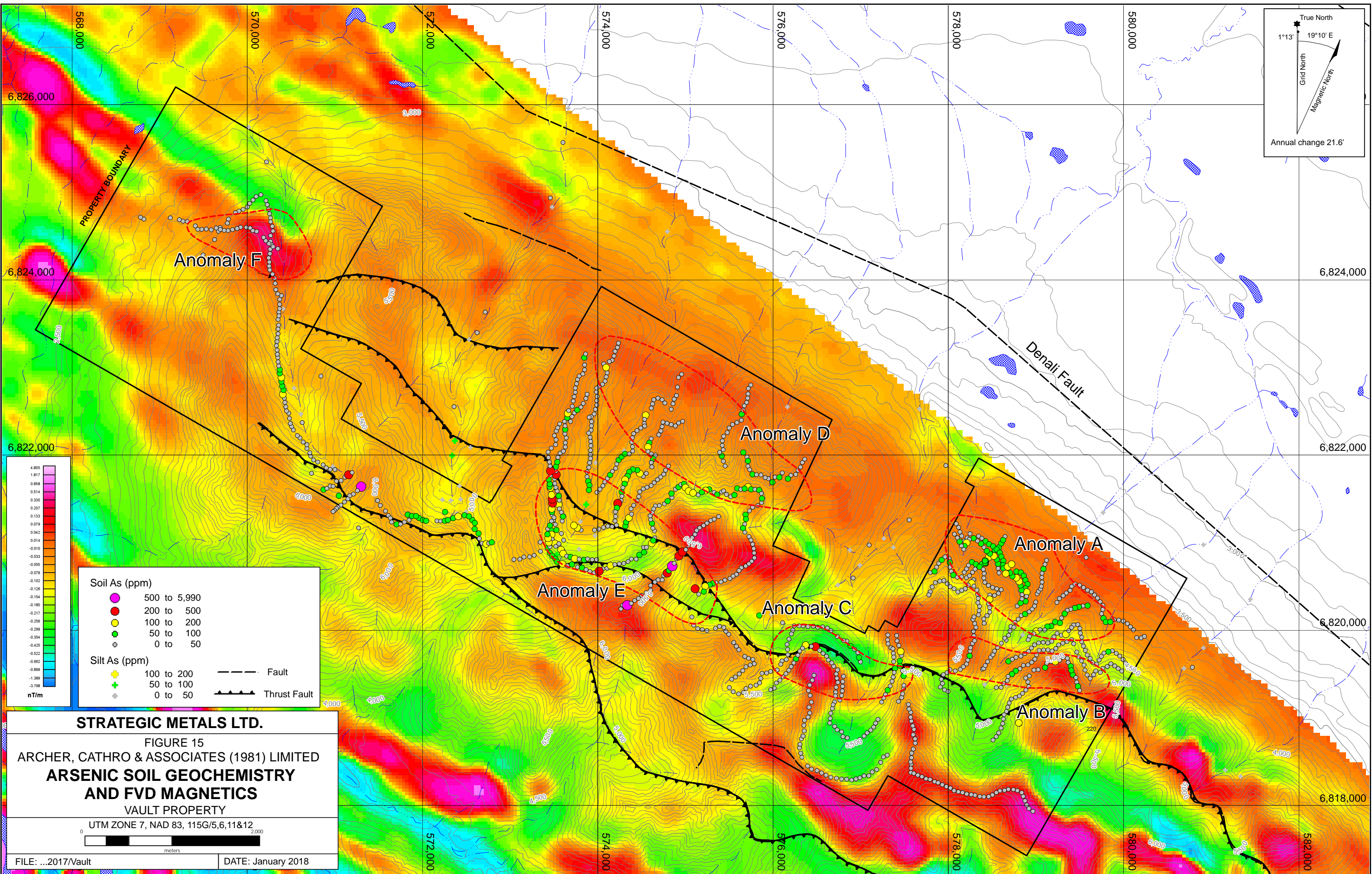
FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12



FILE: ...2017/Vault

DATE: January 2018



| Soil As (ppm) |              |
|---------------|--------------|
| ● (Purple)    | 500 to 5,990 |
| ● (Red)       | 200 to 500   |
| ● (Yellow)    | 100 to 200   |
| ● (Green)     | 50 to 100    |
| ● (Grey)      | 0 to 50      |
| Silt As (ppm) |              |
| ● (Yellow)    | 100 to 200   |
| ● (Green)     | 50 to 100    |
| ● (Grey)      | 0 to 50      |
| ---           | Fault        |
| ▲▲▲           | Thrust Fault |

**STRATEGIC METALS LTD.**

FIGURE 15  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

FILE: ...2017/Vault      DATE: January 2018

4380 ppb), silver (up to 2.3 ppm), copper (up to 1120 ppm) and arsenic (up to 5120 ppm) values. Anomaly E is distinguished from the other soil anomalies by its high arsenic values.

**Anomaly F** is a 1500 by 600 m area located approximately 3.5 km northwest of Anomaly E. Silt samples from creeks in the area yielded up to 350 ppb gold, while soil samples returned up to 199 ppb gold.

### **HAND TRENCHING**

In 2017, four hand trenches were dug on the property, totalling 53.5 m. Hand trenching was designed to follow up high gold-in-soil values and evaluate a LiDAR linear (Linear C), identified by previous work programs. A total of 36 samples were taken from the four trenches. No bedrock was exposed in any of the trenches, but the overburden along their floors was sampled. Samples were processed using the same preparation and analytical techniques described in the Rock Geochemical Sampling section of this report. Rock sample descriptions and Certificates of Analysis for 2017 rock samples can be found in Appendix III and Appendix IV, respectively. Table IV provides details for the trenches while Figure 16A and 16B shows trench and sample locations.

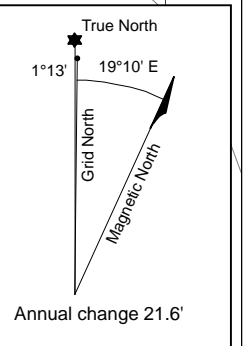
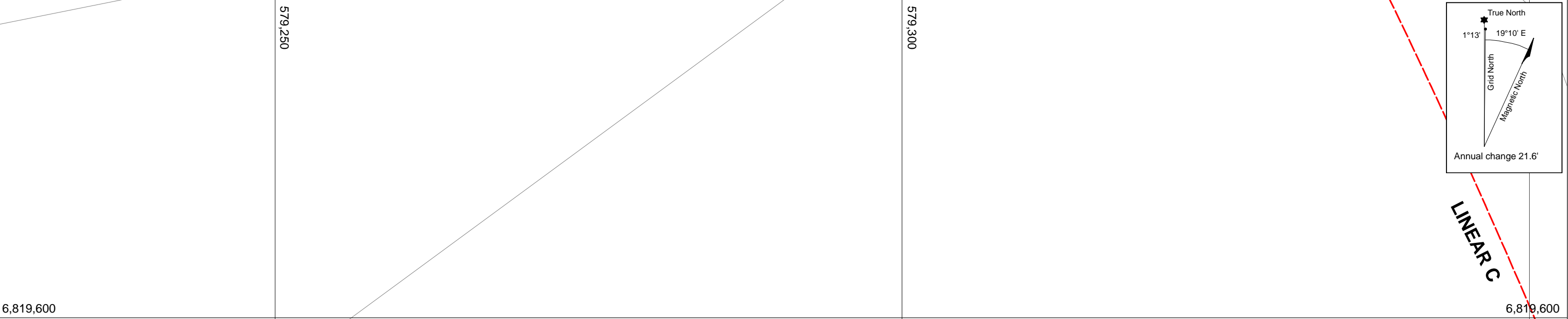
**Table IV – 2017 Hand Trenching Details**

| <b>Trench ID</b> | <b>Easting</b> | <b>Northing</b> | <b>Length (m)</b> | <b>Samples</b>                  |
|------------------|----------------|-----------------|-------------------|---------------------------------|
| TR-17-01V        | 579269         | 6819585         | 25.0              | S052462-<br>S052478             |
|                  | 579293         | 6819595         |                   |                                 |
| TR-17-02V        | 578429         | 6820762         | 10.0              | S052483-<br>S052489             |
|                  | 578422         | 6820769         |                   |                                 |
| TR-17-03V        | 578420         | 6820803         | 10.5              | S052490-<br>S052496             |
|                  | 578410         | 6820801         |                   |                                 |
| TR-17-04V        | 578401         | 6820758         | 8                 | S052497-<br>S052500,<br>S052401 |
|                  | 578405         | 6820764         |                   |                                 |

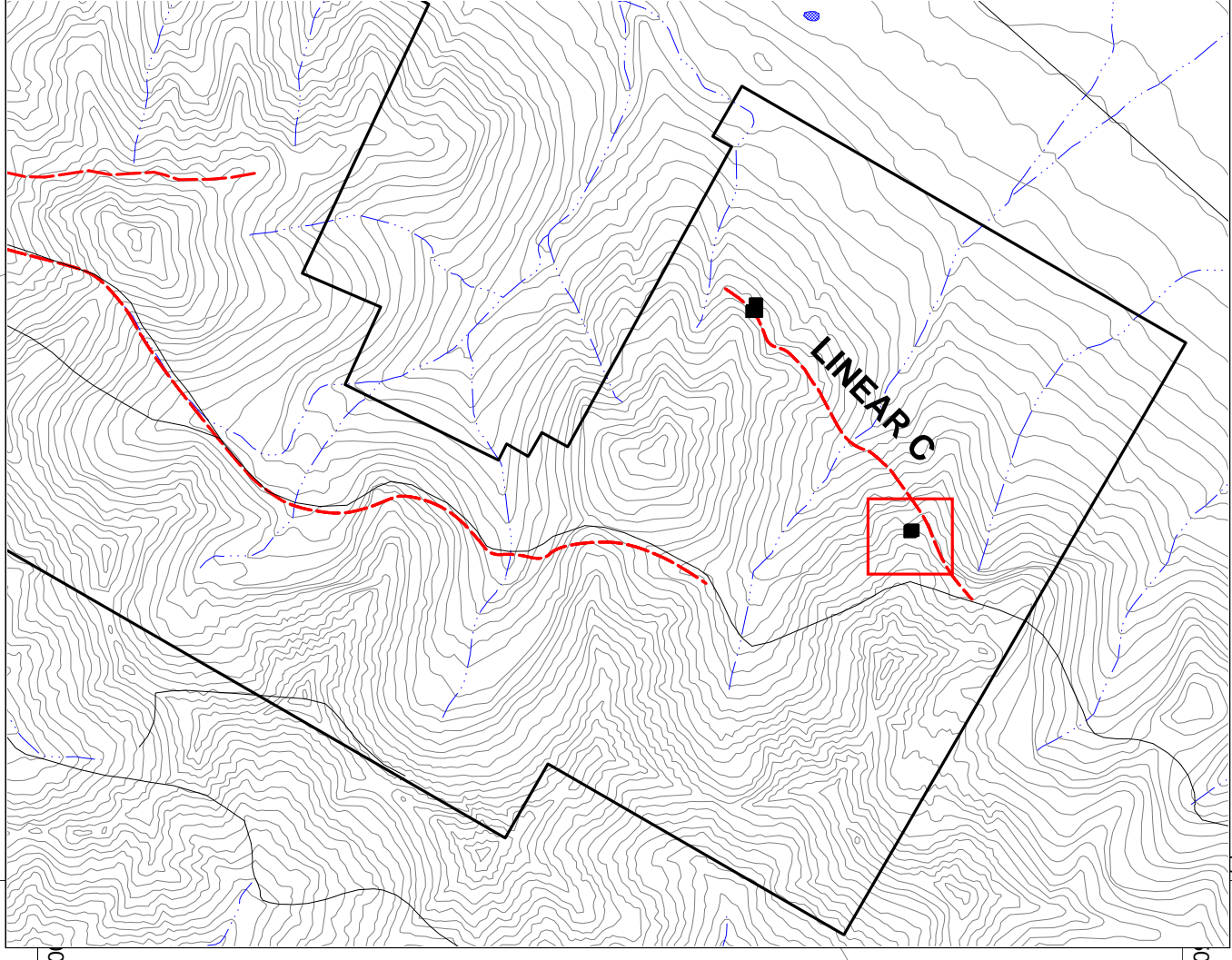
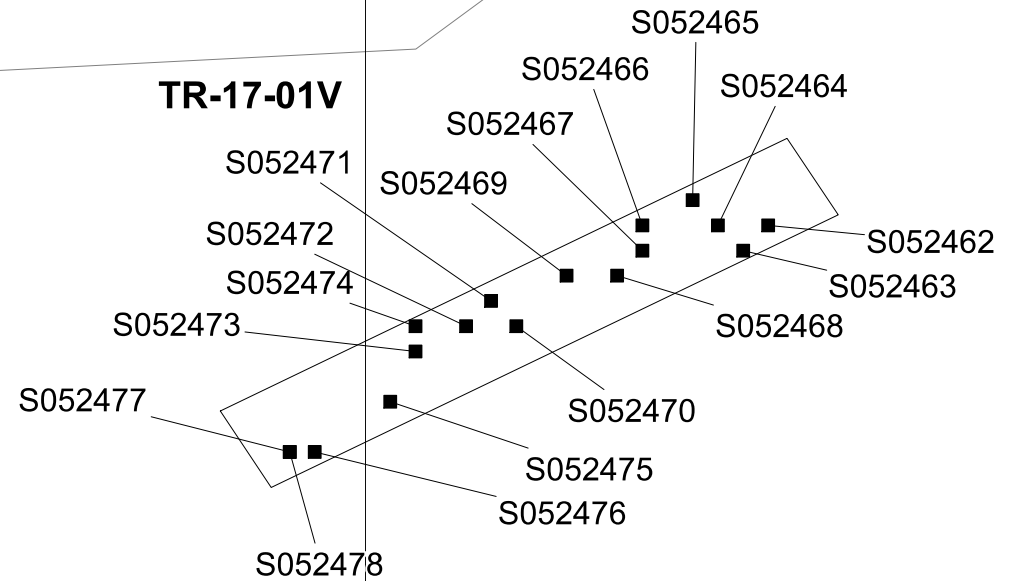
The first hand trench, TR-17-01V, was dug across Linear C on a saddle in the eastern part of the property. A total of 16 samples were collected from mixed talus consisting of greenstone, greenschist and phyllite. Two separate samples each returned 46 ppb gold and 1975 ppm copper, over 1.5 m widths.

TR-17-02V, located 1450 m northwest of TR-17-01V, followed up high gold-in-soil located along the western edge of Linear C. Seven samples comprised slate, phyllite, quartz-carbonate and greenschist talus fragments. Samples returned background values for all elements of interest, except for one weakly anomalous sample that returned 49 ppb gold and 0.3 ppm silver over 1.5 m.

TR-17-03V, located directly upslope of TR-17-02V, tested the same gold-in-soil anomaly. Seven samples comprised mixtures of shale, phyllite and minor quartz-carbonate. Gold and



**TR-17-01V**



**STRATEGIC METALS LTD.**

FIGURE 16A

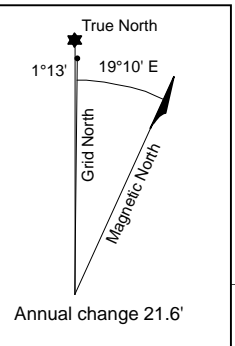
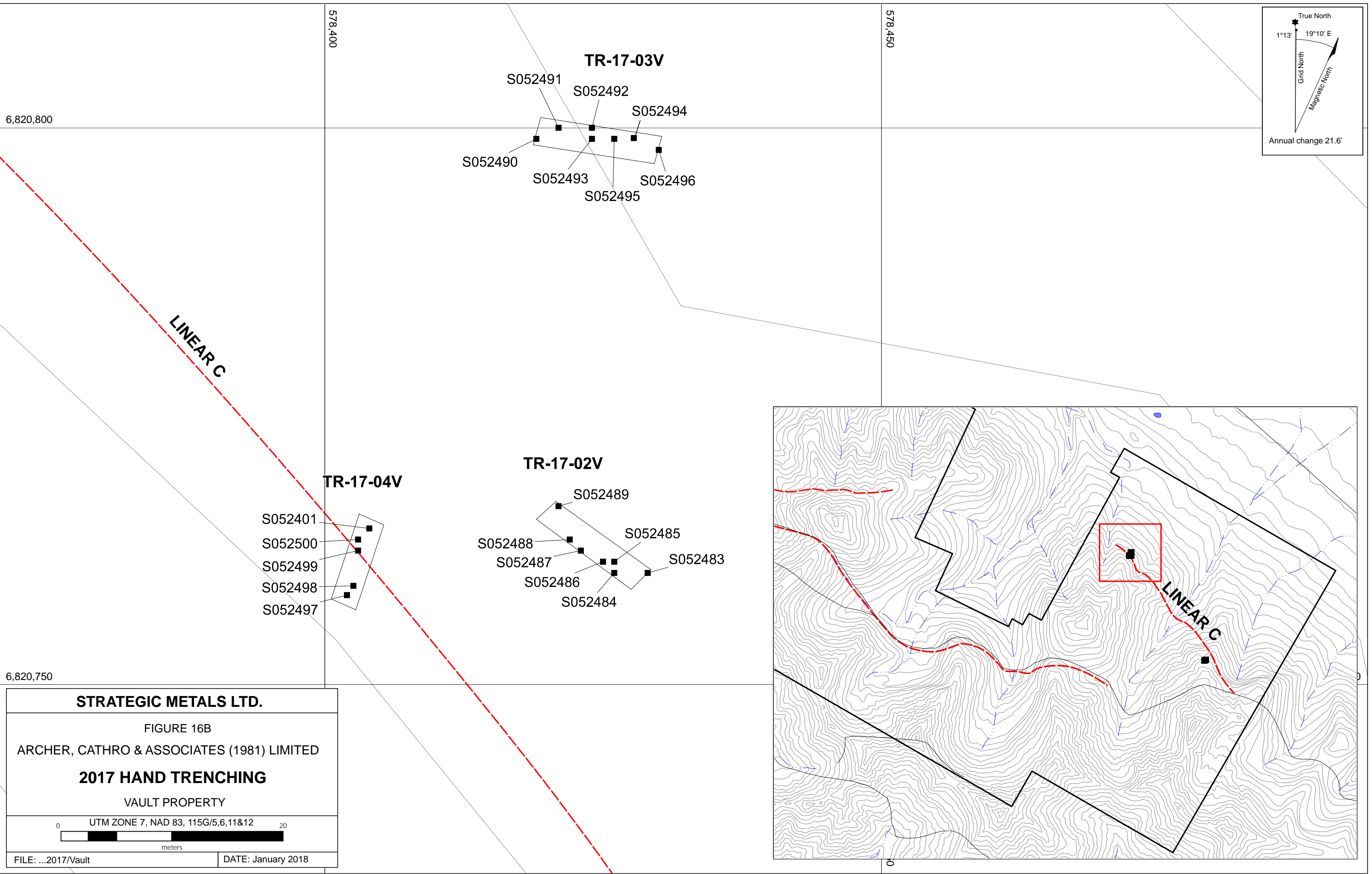
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**2017 HAND TRENCHING**

VAULT PROPERTY

0 UTM ZONE 7, NAD 83, 115G/5,6,11&12 20  
metres

FILE: ...2016/Vault DATE: January 2018



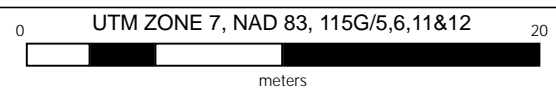
**STRATEGIC METALS LTD.**

FIGURE 16B

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**2017 HAND TRENCHING**

VAULT PROPERTY



FILE: ...2017/Vault

DATE: January 2018

silver values were only weakly anomalous, with peak values of 137 ppb gold and 0.4 ppm silver over 1.5 m.

TR-17-04V lies 300 m west of TR-17-03V. Five samples were collected and included shale, slate, quartz-carbonate, phyllite and siliceous dyke fragments. Analyses returned near background levels for all elements, with a peak gold value of 37 ppb over 1.5 m.

### GEOPHYSICS

In 2015, The Government of Yukon and KFN flew airborne magnetic and HeliTEM surveys over a portion of the Kluane Range. From these surveys, First Vertical Derivative (FVD) magnetic data was compiled for the Vault property.

FVD magnetic response is strongly influenced by topography. Magnetic highs occur along peaks and lows along valley bottoms. Superimposed on the topographic effects are a series of northwesterly trends that likely reflect variations in lithologies and possibly demagnetization along thrust faults.

### LIDAR SURVEYS

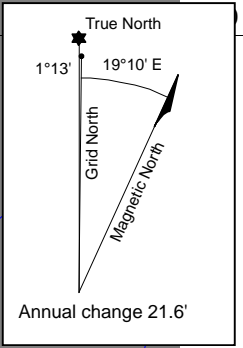
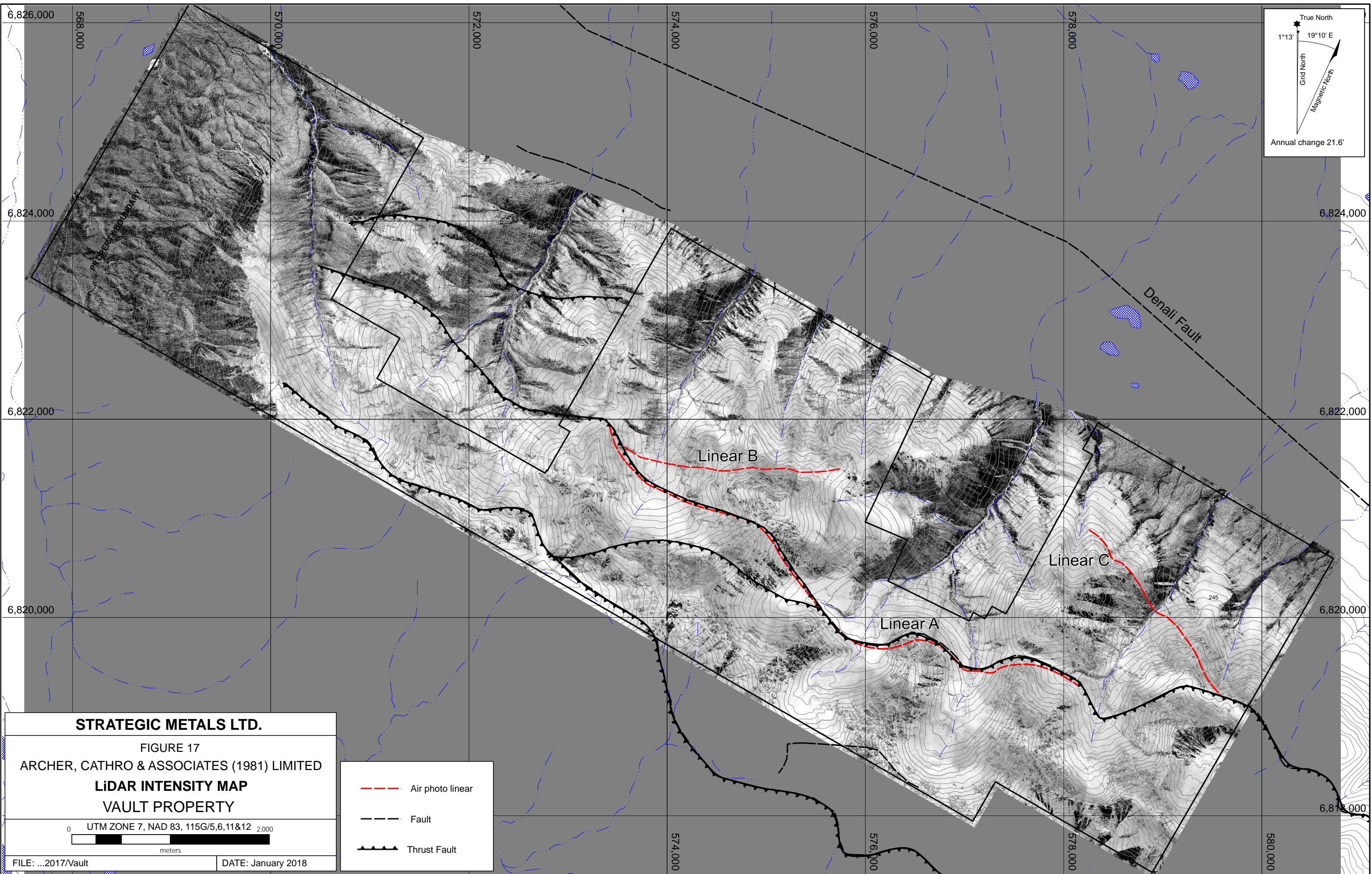
In 2015, Strategic Metals conducted a LiDAR survey over the Vault property. In total, 32 lines were flown at 640 m line spacings. This survey produced elevation contours, a digital elevation model and digital surface model at one metre resolution, along with a LiDAR intensity map. Full details from this survey can be found in Burrell, 2016.

LiDAR imagery, along with compiled historical mapping, identified several prospective features on the Vault property that may represent fault or vein structures. Figure 17 is a LiDAR intensity map showing three of these trends, which coincide with geochemical anomalies.

**Linear A**, which crosses through the centre of the property, approximately follows the trace of a northwesterly trending thrust fault. This feature coincides with strongly anomalous gold values that are typically found on the hanging wall side of the fault.

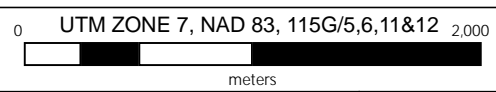
**Linear B** is a discrete lineament that splays westerly off the northwesterly thrust fault associated with Feature A. This feature is associated with strong gold, silver and arsenic soil geochemical response.

**Linear C** is located in the eastern part of the property, where a series of northwesterly trending soil lines produced continuous strongly elevated gold values to a maximum of 1120 ppb. Mapping indicates that quartz diorite dykes occur along a northwesterly trending structure near the top of the anomalies and that a gossan is developed downhill from the feature.






**STRATEGIC METALS LTD.**

FIGURE 17  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LiDAR INTENSITY MAP**  
VAULT PROPERTY



FILE: ...2017/Vault DATE: January 2018

-  Air photo linear
-  Fault
-  Thrust Fault

## **DISCUSSION AND CONCLUSIONS**

The Vault property is located within the Kluane Mafic-Ultramafic Belt (KMUB) in western Yukon. The KMUB is host to the former Wellgreen Mine, a nickel-copper-PGE deposit now owned by Wellgreen Platinum Ltd. In June 2017, Wellgreen released a measured and indicated resource of 363 Mt grading 0.26% Ni, 0.14% Cu, 0.015% Co, 0.231% Pt, 0.244% Pd and 0.04 g/t Au (Wellgreen Platinum, 2017). The deposit is located five kilometres southeast of the Vault property.

Soil sampling done in 2017 expanded on previous surveys, and has now identified six large geochemical anomalies on the property. These anomalies are characterized by clusters of very high gold values that show little direct correlation to typical pathfinder metals. Prospecting suggests the anomalies are associated with quartz veins and sheeted vein stockworks that are developed near northwest trending thrust faults. This style of mineralization, the geological setting and the soil geochemical signatures are consistent with orogenic style mineralization.

Limited exploration on the Vault property has not discovered enough mineralization to adequately explain the strong soil geochemical results. The lack of prospecting success is likely due in part to deep overburden (talus at higher elevation and glacial moraines at lower elevations) that could mask recessive weathering veins or fracture filling zones. Hand trenching was unable to penetrate through the overburden.

Future work on the property is warranted to further evaluate known geochemical anomalies and explore for others elsewhere on the property. Further work should include be not be limited to: 1) additional soil geochemical surveys; 2) systematic prospecting to identify mineralized float trains and outcrops; 3) detailed geological mapping to better understand controls on the mineralization; and 4) pending successful results, diamond drilling to evaluate prospective areas. Due to the abundance of deep overburden, trenching is not recommended.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Willms, B.Sc.

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, Kelson Willms, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2017 with a B.Sc in Earth and Environmental Sciences.
2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia.
3. I have interpreted all data resulting from this work.



K. Willms, B.Sc.

**APPENDIX II**  
**STATEMENT OF EXPENDITURES**

Statement of Expenditures  
Vault 1-180 Mineral Claims  
February 7, 2018

Labour

|  |                 |
|--|-----------------|
| D. Eaton geologist 25 hours July 15 to December at \$120/hr                      | \$ 3,150.00     |
| H. Burrell geologist 18 hours July 15 to December at \$111/hr                    | 2,097.90        |
| J. Morton geologist 44 hours July 15 to December at \$96/hr                      | 4,435.20        |
| K. Willms geologist 32 hours July 15 to December at \$62/hr                      | 2,083.20        |
| M. Kulla field assistant 152 hours July 15 to December at \$55/hr+\$1,182 bonus  | 10,019.10       |
| K. Whiting field assistant 8 hours July 15 to December at \$55/hr                | 462.00          |
| R. Ledoux field assistant 72 hours July 15 to December at \$51/hr +\$326 bonus   | 4,197.90        |
| T. Ledoux field assistant 136 hours July 15 to December at \$51/hr + \$516 bonus | 7,824.60        |
| J. Itkin office 10 hours July 15 to December at \$96/hr                          | 1,008.00        |
| J. Mariacher office 10 hours July 15 to December at \$90/hr                      | 945.00          |
| W. Schneider expedite 1 hour July 15 to December at \$96/hr                      | 100.80          |
| L. Corbett expedite 12 hours July 15 to December at \$81/hr                      | 1,020.60        |
| L. Smith office and expedite 18 hours July 15 to December at \$81/hr             | 1,530.90        |
| V. Cournoyer-Derome expedite 19 hours July 15 to December at \$51/hr             | 1,017.45        |
| S. Newman office 25 hours July 15 to December at \$68/hr                         | <u>1,785.00</u> |
|  | 41,667.65       |

Expenses including management

|  |                  |
|--|------------------|
| Field room and board 46 mandays at\$195/manday                       | 10,136.10        |
| Capital Helicopters 2.1 hours A-Star at \$1,775/hr plus fuel         | 4,495.48         |
| 7.9 Bell 206 at \$\$1,200/hr plus fuel                               | 11,080.98        |
| Trans North Helicopters 1.2 hours Bell 206L4 at \$1,485/hr plus fuel | 2,160.56         |
| ALS Chemex   | <u>17,215.48</u> |
|  | 45,088.60        |

Total \$86,766.25

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K293114 UTM: 573889 mE Nad83, Zone 7  
Elevation: 4944 m UTM: 6823056 mN

Comments: 5cm quartz-carbonate vein in dark green-black mafic greestone (mildly metamorphosed). Vein exposed along 4m with strike dip of 110/75. Minor chalcopryrite, malachite?, unidentified dark red-brown metallic mineral, rare silvery platy and nuggety metallic mineral. Chip sample is from the lower 2m of the vein where in-situ vein material was obtainable.

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Sample Number: K293115 UTM: 573526 mE Nad83, Zone 7  
Elevation: 5461 m UTM: 6822656 mN

Comments: Bull quartz-carb vein and boulders in outcrop of pale tan-orange limestone (?). Rare pale pink veinlets, chalcopryrite, pyrite, arsenopyrite (?) and blebs/veinlets of a blue-grey metallic mineral. Chalcedony also present in the area. Quartz veins found in an area 10x15m.

---

Sample Number: K293116 UTM: 574600 mE Nad83, Zone 7  
Elevation: 6583 m UTM: 6820496 mN

Comments: Pale green columnar-like quartz. Mild deformation. Cobbles in talus and outcrop of greenstone and schistose.

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Sample Number: K293117 UTM: 574450 mE Nad83, Zone 7  
Elevation: 6553 m UTM: 6820323 mN

Comments: Quartz-carbonate vein in greenstone with chlorite selvages. Rare malachite staining. From talus of greenstone and dark green-brown. Approximately 10% of rocks in the area have similar quartz veins and selvages.

---

Sample Number: K293118 UTM: 574454 mE Nad83, Zone 7  
Elevation: 6555 m UTM: 6820312 mN

Comments: Quartz vein in greenstone/schist host with chlorite selvages. Rare blebs (<1mm) of unidentified black weathered/oxidized brassy-yellow crystals. No rep flagged in field.

---

Sample Number: K293119 UTM: 573544 mE Nad83, Zone 7  
Elevation: 5133 m UTM: 6821524 mN

Comments: Pale green schistose/lightly foliated with quartz veining/banding/lenses up to 5 cm wide. Fine grained pyrite cubes, chalcopryrite, arsenopyrite (?) crystals. 1 boulder and small cobbles in small talus below green-brown outcrop.

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K293120 UTM: 573807 mE Nad83, Zone 7  
Elevation: 5430 m UTM: 6820790 mN

Comments: Dark Pale Green, aphanitic texture, Mafic metavolcanic greenstone, broken from a rock the size of a head, found in scree slope, contains quartz/calcite veins, contains a silvery grey metallic mineral within the whole rock as well as within the veins as well as a pale bronzy yellow metallic mineral with a cubic habit (Pyrite). On the wheathered surface there are oxidized brown cubes (more pyrite)

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Sample Number: K293121 UTM: 573808 mE Nad83, Zone 7  
Elevation: 5427 m UTM: 6820790 mN

Comments: Quartz-carbonate vein with chalcopyrite and pyrite cubes, rare sphalerite crystals (?). Dark grey fine grained xenoliths/clasts. Only piece found in talus of dark grey to deep dark red-brown volcanic rocks.

---

Sample Number: K293122 UTM: 574465 mE Nad83, Zone 7  
Elevation: 5007 m UTM: 6821782 mN

Comments: Stockwork/sheeted quartz-carbonate veins up to 5cm wide in dark mafic outcrop (gabbro/basalt?). Mineralized with fine grained disseminated pyrite, chalcopyrite, rare malachite and possibly bornite?

---

Sample Number: K293123 UTM: 574671 mE Nad83, Zone 7  
Elevation: 5282 m UTM: 6821696 mN

Comments: Quartz/Calcite vein approximatly 10 cm in diameter cutting concordantly with folliated pale green to brown red mafic host rock, smaller veinlets are also interspersed concordantly throughout the foliated planes. The veins host disseminated pyrite, chalcopyrite, and another silvery blue metalic mineral, posibly bornite?

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Sample Number: K293124 UTM: 575258 mE Nad83, Zone 7  
Elevation: 5584 m UTM: 6821621 mN

Comments: slightly foliated tan grey outcrop with sporadic quartz/calcite veins accounting for 10% of the whol rock. Semi oxidized pyrite/chalcopyrite precipitate on the outside of the whole rock with some pyrite, chalcopyrite and some silvery blue mineral (bornite?) disseminated in the veins within the rock.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K293125 UTM: 575261 mE Nad83, Zone 7  
Elevation: 5581 m UTM: 6821624 mN

Comments: Abundant quartz-carbonate veins with rare fine grained disseminated sulphides and rare very fine grained yellow-gold unidentified mineral (very fine coatings or "precipitate") in pale tan-brown outcrop west of high gold soil CC84109

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Sample Number: K293126 UTM: 575273 mE Nad83, Zone 7  
Elevation: 4584 m UTM: 6821607 mN

Comments: Quartz-carbonate vein with rare fine grained disseminated sulphides (pyrite cubes?) in pale tan outcrop at high gold soil CC84109. Same horizon as K293125.

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Sample Number: K293127 UTM: 577487 mE Nad83, Zone 7  
Elevation: 5610 m UTM: 6819483 mN

Comments: Light rusty-orange weathering dark green-gey chloritic mafic rock with dark phenocrysts (mafic volcanic?). Mineralized with disseminated fine-to-medium grained pyrite, chalcopyrite and a silvery mineral (molybdenite?). Located near the UTM location of a 0.81g/t Au-in-rock sample (2009)

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Sample Number: K293128 UTM: 577451 mE Nad83, Zone 7  
Elevation: 5546 m UTM: 6819437 mN

Comments: Rusty brown weathering mafic dyke(?) on the south edge of rock chute south of K293127. Band of dark red/rusty brown weathering is approximately 1m wide and can be seen near K293127 (same band?). Quartz-carbonate veins up to 1cm wide with orange-brown edges. Mineralized with chalcopyrite, pyrite and rare silvery mineral. Mineralization occurs throughout the sample but is concentrated towards the weathered edges of the mafic host.

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Sample Number: K293129 UTM: 576736 mE Nad83, Zone 7  
Elevation: 5362 m UTM: 6819300 mN

Comments: Dark green-black phenocrysts in a light green chloritic mafic host. Faint rusty surfaces and weathering to green-brown. Thin coatings of chalcopyrite, pyrite and malachite occur throughout on fresh surfaces. North side of rock chute, 60m northwest of high gold soil CC84579.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K293130 UTM: 576572 mE Nad83, Zone 7

Elevation: 5797 m UTM: 6819286 mN

Comments: Quartz-carbonate veins/lenses in brown weathering biotite-chlorite schists (weakly foliated). Fine grained pyrite, chalcopyrite disseminated throughout, mostly in host rock, rarely in veins. On south side of rock chute, above K293129. <1% of material in rock chute.

---

Sample Number: K293131 UTM: 576562 mE Nad83, Zone 7

Elevation: 5803 m UTM: 6819298 mN

Comments: Chip sample from dark red rusty-brown weathering band in black-brown to dark green-grey mafic volcanic (minor black phenocrysts and slightly foliated). Band also characterized by powderywhite-green-rusty weathering material with white-green chloritic, sericitic internally. Mafic inclusions, chlorite, epidote (?) and fine grained disseminated sulphides and rare pods/lenses/bands/rinds of very fine grained sulphides (chalcopyrite and pyrite?). North side of rock chute above K293130.

---

Sample Number: K293132 UTM: 576763 mE Nad83, Zone 7

Elevation: 5293 m UTM: 6819637 mN

Comments: Pink to green tinged quartz-carbonate cobbles (from vein?), rarely mineralized by fine grained disseminated sulphides (pyrite, chalcopyrite). Approximately 10% of material in rock chute of dark green-grey mafic (volcanic?) at the base of cliffs of the same material. Pink tinged rocks contain mineralization, no mineralization observed in green-tinged (chloritic) quartz cobbles.

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Sample Number: K293133 UTM: 577952 mE Nad83, Zone 7

Elevation: 5140 m UTM: 6820660 mN

Comments: Quartz-carbonate vein fragments and cobble in talus of green-grey lightly foliated chloritic mafic greenschist. Quartz-carbonate bounded by host. Mineralized with pyrite, chalcopyrite, heavily oxidized mm sized nuggets, and a red-brown metallic mineral. Sulphides occur as finely disseminated fine grained crystals. <1% of material in the area. From up hill of quartz-diorite dykes.

---

Sample Number: K293134 UTM: 577955 mE Nad83, Zone 7

Elevation: 5080 m UTM: 6820708 mN

Comments: massive, sugary crystalline quartz-carbonate outcrop with abundant fine quartz veinlets and rare fine grained disseminated pyrite, chalcopyrite and possibly arsenopyrite. Sample was sitting on the edge of outcrop, possibly fallen down. Outcrop is the same material, weathering brown-orange. Pale orange coatings around sulphides. Outcrop may be a part of quartz-diorite dykes.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K293135 UTM: 577975 mE Nad83, Zone 7

Elevation: 5051 m UTM: 6820737 mN

Comments: Massive quartz carbonate cut by quartz veinlets, weathering brown-orange to tan. Rare very fine grained sulphide mineralization (to small to identify). Chip from outcrop of similar looking material (quartz-diorite dykes?)

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Sample Number: K293136 UTM: 577947 mE Nad83, Zone 7

Elevation: 5026 m UTM: 6820740 mN

Comments: Massive quartz carbonate cut by quartz veinlets, weathering brown-orange to tan. Rare very fine grained sulphide mineralization (to small to identify). Chip from outcrop of similar looking material (quartz-diorite dykes?). Interior fracture surfaces are coated in orange. From mid-way up a 10m long chute of similar material, bounded on either side by darker tan-orange-brown barren (?) quartz-carbonate.

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Sample Number: K293137 UTM: 578420 mE Nad83, Zone 7

Elevation: 4728 m UTM: 6820788 mN

Comments: Massive quartz-carboante boulder with thin bandings or flow lines of medium grey. Weathering to pale tan with rare disseminated very fine grained metallic crystals. Up slope from contour line of high in-soil gold values. <1 % of material in the area, no outcrop and mostly covered by low vegetation.

---

Sample Number: K293138 UTM: 579452 mE Nad83, Zone 7

Elevation: 5321 m UTM: 6819393 mN

Comments: Quartz-carbonate-feldspar vein(?) cobble on northeast facing slope, only piece in the vicinity. Bounded by mildly schistose pale green-grey host. Small veinlets of pink-orange in the quartz veins, rare green inclusions, rare pale white-green coating (possibly sericite?) and rare very fine grained disseminated sulphides, possibly rare malachite.

---

Sample Number: K293139 UTM: 579373 mE Nad83, Zone 7

Elevation: 5500 m UTM: 6819352 mN

Comments: Medium green-grey weathering epidote (pistachio greenish) carbonate with minor quartz. Very rare very fine grained disseminated metallic mienrals. ~5% of rocks below cliffs

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K293140 UTM: 579396 mE Nad83, Zone 7

Elevation: 5457 m UTM: 6819220 mN

Comments: Deep red-brown to dark grey-purple weathering volcanic (gabbro? Pillow?) Malachite coatings and rare very fine grained metallic black mineral. 3m wide float train leading south up to peak of mountain. Same colour rock makes up ~50% of the float train.

---

Sample Number: K293141 UTM: 579647 mE Nad83, Zone 7

Elevation: 5381 m UTM: 6819239 mN

Comments: Black-grey shale and greenstone cut by quartz veins weathering brown-red. Quartz vein has bright orange bands, rare fine grained disseminated sulphides and unknown well formed black-brown crystals (garnet?). Quartz veins follow foliation of host.

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Sample Number: K293142 UTM: 579673 mE Nad83, Zone 7

Elevation: 5423 m UTM: 6819239 mN

Comments: Dark red-brown mafic volcanic host criss-crossed by quartz and epidote veins, which cross-cut each other, rare malachite coatings, rare fine grained disseminated sulphides in host, rarely in veins. Talus chute near base of cliffs. ~10% of material is veined similarly.

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Sample Number: K293143 UTM: 579379 mE Nad83, Zone 7

Elevation: 4667 m UTM: 6819963 mN

Comments: Quartz-carboante outcrop weathering tan-orange cut by small quartz veins and veinlets. Rare very fine grained disseminated sulphides (? To small to identify). Outcrop face is 5x3m and is of similar material. Having screen checked for coarse gold.

---

Sample Number: K293144 UTM: 579538 mE Nad83, Zone 7

Elevation: 5528 m UTM: 6819090 mN

Comments: Chloritic greenstone/mudstone weathering green-grey with occasional rusty patches along fracture surfaces of outcrop. Quartz breccia/vein selvages with rare spots of disseminated sulphides and possible coarse gold(?). From piece of float sitting on outcrop of mudstone/phyllite/greenstone. <1%

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K293145 UTM: 579557 mE Nad83, Zone 7  
Elevation: 5517 m UTM: 6819097 mN

Comments: Rusty orange weathering light grey-green volcanic or metamorphosed mudstone (?) with minor quartz veinlets, minor chlorite and rare fine grained disseminated sulphides. From boulders at the base of outcrop of the same.

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Sample Number: K293146 UTM: 579638 mE Nad83, Zone 7  
Elevation: 5770 m UTM: 6818990 mN

Comments: Grey-brown weathering slightly vesicular volcanic (?). Dark grey-green fine grained interior with white phenocrysts being rimmed or replaced by a very fine grained black-green mineral and rarely a yellow-ish mineral(mica?). From the toe of a slump (may be man made) and makes up approximately 10% of the material in the toe rock. None was found above.

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Sample Number: K293147 UTM: 579586 mE Nad83, Zone 7  
Elevation: 5874 m UTM: 6818915 mN

Comments: Quartz-carbonate band with dark grey selvages (mildly foliated mafic?) with rare fine grained disseminated sulphides. Collected from the top of a shale/schist/phyllite ridge. <1% of rock in the area.

---

Sample Number: K293148 UTM: 579589 mE Nad83, Zone 7  
Elevation: 5874 m UTM: 6818917 mN

Comments: Quartz-carbonate vein/lense hosted in schist/phyllite on ridge. Rare fine grained disseminated sulphides. Next to K293147

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Sample Number: K293149 UTM: 579548 mE Nad83, Zone 7  
Elevation: 5898 m UTM: 6818901 mN

Comments: Purple-red magnetite-hematite banded carbonate boulder in talus of green mudstone/siltstone. Rare very fine grained sulphides. <1% of rocks in the area. Hematite bands appear stringy and chaotic. Rare crystals of hematite.

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K293150 UTM: 579260 mE Nad83, Zone 7  
Elevation: 6208 m UTM: 6818931 mN

Comments: Quartz-carbonate vein cutting iron-rich mafic volcanic (hematite rich?) Quartz-carbonate vein has abundant malachite and limonitic staining. Rarely a very fine grained metallic silver-black mineral can be seen associated with the malachite. From below outcrop of purple-red volcanic in boulder pile, only two boulders had veining and malachite staining. Outcrop is near the peak of the mountain, at the top of a rock chute leading down to K293140

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Sample Number: S052401 UTM: 578404 mE Nad83, Zone 7  
Elevation: 4754 m UTM: 6820764 mN

Comments: TR-17-04V (6-8m): Grey-black-blue shale/slate, quartz-carbonate pebbles and minor pebbles of light grey schist/phyllite, also tan-brown-orange weathering quartz dyke (?) pebbles). All fines and pebbles, no bedrock

---

Sample Number: S052451 UTM: 579030 mE Nad83, Zone 7  
Elevation: 5548 m UTM: 6819251 mN

Comments: Quartz-carbonate vein with heavy limonitic oxidized band on one side with abundant black oxidized material and fine grained disseminated sulphides (pyrite mostly). Other side is bounded by phyllite/schist? | Only piece seen in the area of the talus slope collected from. Talus in a mix of purple-red volcanic and green mudstone/phyllite/greenstone

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Sample Number: S052452 UTM: 577963 mE Nad83, Zone 7  
Elevation: 6044 m UTM: 6820151 mN

Comments: mildly deformed or folded green phyllite/schist with quartz-feldspar(?) bands/veins. Rare very fine grained disseminated sulphides (too small to ID), concentrated mostly along the contact between a grey-black band with orange inclusions/cavities/selvages and a white quartz band. From outcrop/subcrop of greenschist/phyllite with a few similarly banded cobbles found downslope a few meters.

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Sample Number: S052453 UTM: 578026 mE Nad83, Zone 7  
Elevation: 5848 m UTM: 6820172 mN

Comments: Quartz-carbonate vein fragments with minor malachite staining and minor sulphides (pyrite, chalcopyrite, arsenopyrite?). Collected from 3 locations within 10m of each other. Could not trace more than 10 meters up hill and could not see any down hill. <1% of rock in talus, the rest is greenstone/schist/phyllite/mudstone.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052454 UTM: 578250 mE Nad83, Zone 7

Elevation: 5436 m UTM: 6820418 mN

Comments: Rusty weathering green-grey phyllite/schist with fine grained disseminated sulphides (pyrite, chalcopyrite, arsenopyrite?) in lenses between folia of phyllite/schist. From outcrop of the same. Having screen checked for coarse gold.

---

Sample Number: S052455 UTM: 578321 mE Nad83, Zone 7

Elevation: 5088 m UTM: 6820596 mN

Comments: Bleached tan to orange-brown weathering banded/lineated/foliated quartz-carbonate-feldspar outcrop with occasional quartz veins/veinlets cross-cutting the lineations. Fine bands of very fine grained sulphides (?). 5m long section of outcrop with more massive quartz-carbonate above and to the sides.

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Sample Number: S052456 UTM: 578318 mE Nad83, Zone 7

Elevation: 4927 m UTM: 6820777 mN

Comments: Lineated/banded/foliated quartz-carbonate outcrop weathering to tan-orange. Occasional light grey inclusions inside and very fine grained disseminated sulphides (chalcopyrite, pyrite). From base of large section of outcrop south of Feature C (structure from 2016 Lidar) or possibly part of Feature C. Having screen checked for coarse gold.

---

Sample Number: S052457 UTM: 578406 mE Nad83, Zone 7

Elevation: 4677 m UTM: 6820811 mN

Comments: Light green-grey phyllite/schist with orange weathering folia and quartz-carbonate lenses. Rare very fine grained disseminated sulphides. From boulder in the side of the hill covered by vegetation and rock debris on the west side of the gully beside western-most high gold in-soil (possibly a slump). Having screen checked for coarse gold.

---

Sample Number: S052458 UTM: 578429 mE Nad83, Zone 7

Elevation: 4809 m UTM: 6820728 mN

Comments: Green-grey phyllite/schist boulder below outcrop of the same. Heavily oxidized/rusty brown-orange weathering on some fracture surfaces with fine grained pyrite masses in various states of oxidation. Minor sulphides disseminated throughout on fresh surfaces (pyrite, chalcopyrite, arsenopyrite?) of phyllite/schist and in quartz lenses/veins. Possibly associated with Feature C (2016 Lidar).

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052459 UTM: 577829 mE Nad83, Zone 7  
Elevation: 5643 m UTM: 6819137 mN

Comments: Cobble of massive quartz (vein) with green schist/phyllite/greenstone inclusions, fine bands of a green-black platy mineral(chlorite/biotite). Minor malachite staining and fine grained disseminated sulphides (pyrite). From talus slope in a small rock chute of greenstone/siltstone. <1% of material in talus

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Sample Number: S052460 UTM: 578086 mE Nad83, Zone 7  
Elevation: 6252 m UTM: 6818202 mN

Comments: Tan-green vein of quartz?/epidote? (massive fine no visible crystals. Approximately 30cm wide striking approximately 210, dipping steeply to the north-northeast. Malachite and azurite coatings. Vein is bounded on both sides by dark grey to dark grey-green heavily faulted (abundant slickensides in various orientations) volcanic?/mudstone?. From outcrop below ridgeline but above most of the talus slope.

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Sample Number: S052461 UTM: 578092 mE Nad83, Zone 7  
Elevation: 6240 m UTM: 6818205 mN

Comments: Cobbles of malachite and azurite rich bands and staining in a quartz vein? One surface is slickensided. Bands of grey metallic mineral (hematite?) also abundant internally parallel to malachite/azurite. From talus slope a few metres downslope from S052460. <1% of talus.

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Sample Number: S052462 UTM: 579266 mE Nad83, Zone 7  
Elevation: 5406 m UTM: 6819590 mN

Comments: TR-17-01V (0-1.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052463 UTM: 579265 mE Nad83, Zone 7  
Elevation: 5408 m UTM: 6819589 mN

Comments: TR-17-01V (1.5-3m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052464 UTM: 579264 mE Nad83, Zone 7  
Elevation: 5410 m UTM: 6819590 mN

Comments: TR-17-01V (3-4.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052465 UTM: 579263 mE Nad83, Zone 7

Elevation: 5410 m UTM: 6819591 mN

Comments: TR-17-01V (4.5-6m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052466 UTM: 579261 mE Nad83, Zone 7

Elevation: 5419 m UTM: 6819590 mN

Comments: TR-17-01V (6-7.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052467 UTM: 579261 mE Nad83, Zone 7

Elevation: 5415 m UTM: 6819589 mN

Comments: TR-17-01V (7.5-9m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052468 UTM: 579260 mE Nad83, Zone 7

Elevation: 5413 m UTM: 6819588 mN

Comments: TR-17-01V (9-10.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052469 UTM: 579258 mE Nad83, Zone 7

Elevation: 5417 m UTM: 6819588 mN

Comments: TR-17-01V (10.5-12m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052470 UTM: 579256 mE Nad83, Zone 7

Elevation: 5412 m UTM: 6819586 mN

Comments: TR-17-01V (12-13.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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Sample Number: S052471 UTM: 579255 mE Nad83, Zone 7

Elevation: 5416 m UTM: 6819587 mN

Comments: TR-17-01V (13.5-15m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, and phyllite. No bedrock

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052472 UTM: 579254 mE Nad83, Zone 7

Elevation: 5418 m UTM: 6819586 mN

Comments: TR-17-01V (15-16.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

---

Sample Number: S052473 UTM: 579252 mE Nad83, Zone 7

Elevation: 5424 m UTM: 6819585 mN

Comments: TR-17-01V 16.5-18m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

---

Sample Number: S052474 UTM: 579252 mE Nad83, Zone 7

Elevation: 5426 m UTM: 6819586 mN

Comments: TR-17-01V (18-19.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

---

Sample Number: S052475 UTM: 579251 mE Nad83, Zone 7

Elevation: 5422 m UTM: 6819583 mN

Comments: TR-17-01V (19.5-21m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

---

Sample Number: S052476 UTM: 579248 mE Nad83, Zone 7

Elevation: 5418 m UTM: 6819581 mN

Comments: TR-17-01V (21-22.5m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

---

Sample Number: S052477 UTM: 579247 mE Nad83, Zone 7

Elevation: 5422 m UTM: 6819581 mN

Comments: TR-17-01V (22.5-24m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052478 UTM: 579247 mE Nad83, Zone 7

Elevation: 5418 m UTM: 6819581 mN

Comments: TR-17-01V (24-25m): Mix of angular to subrounded pebbles and cobbles of greenstone, greenschist, phyllite, and red-brown schist/phyllite pebbles and cobbles. No bedrock

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Sample Number: S052479 UTM: 578806 mE Nad83, Zone 7

Elevation: 5664 m UTM: 6818944 mN

Comments: Light grey weathering felsic (diorite?) cobble with quartz-carbonate vein and rusty patches. Rare fine grained disseminated sulphides (pyrite, arsenopyrite) and rare malachite staining. From talus/scree in gossanous area 20x20m near base of cliffs. Talus is a mix of shale, slate, mudstone, siltstone and tan-orange rusty weathering dyke (?) rock. Sample is <1% of rock in area.

---

Sample Number: S052480 UTM: 578811 mE Nad83, Zone 7

Elevation: 5635 m UTM: 6818935 mN

Comments: Rusty limonitic/ oxidized felsic dyke (?) rock weathering to light grey-green with rusty patches and fractures. Minor quartz-carbonate veins/veinlets. Fine grained disseminated sulphides (pyrite, chalcopryte). From outcrop of the same upslope from S052479

---

Sample Number: S052481 UTM: 578808 mE Nad83, Zone 7

Elevation: 5647 m UTM: 6818923 mN

Comments: Coarse quartz vein in fine grained grey-brown weathering volcanic(?) cobble from rock chute south of gossanous area. Mineralized with malachite, azurite, chalcopryrite, pyrite, bornite?, enargite? Only piece found in the area.

---

Sample Number: S052482 UTM: 578851 mE Nad83, Zone 7

Elevation: 5748 m UTM: 6818914 mN

Comments: Dark brown weathering volcanic (?) with rusty limonitic (or clay? Both?) fractures and surfaces. Rare malachite and fine grained sulphides (mostly pyrite). Quartz vein has rare fine grained sulphides disseminated throughout. From rock chute above S052480, possibly sourcing from dark brown weathering volcanic outcrop 10m up slope (outcrop is on the north side of rock chute and is ~20m wide). Could not find mineralized rock in the outcrop.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052483 UTM: 578429 mE Nad83, Zone 7

Elevation: 4792 m UTM: 6820760 mN

Comments: TR-17-02V (0-1.5m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

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Sample Number: S052484 UTM: 578426 mE Nad83, Zone 7

Elevation: 4791 m UTM: 6820760 mN

Comments: TR-17-02V (1.5-3m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

---

Sample Number: S052485 UTM: 578426 mE Nad83, Zone 7

Elevation: 4793 m UTM: 6820761 mN

Comments: TR-17-02V (3-4.5m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

---

Sample Number: S052486 UTM: 578425 mE Nad83, Zone 7

Elevation: 4787 m UTM: 6820761 mN

Comments: TR-17-02V (4.5-6m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

---

Sample Number: S052487 UTM: 578423 mE Nad83, Zone 7

Elevation: 4789 m UTM: 6820762 mN

Comments: TR-17-02V (6-7.5m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052488 UTM: 578422 mE Nad83, Zone 7

Elevation: 4790 m UTM: 6820763 mN

Comments: TR-17-02V (7.5-9m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

---

Sample Number: S052489 UTM: 578421 mE Nad83, Zone 7

Elevation: 4792 m UTM: 6820766 mN

Comments: TR-17-02V (9-10m): Grey-black shale/slate, dark brown-grey shale/slate, tan-brown fines, minor phyllite pebbles, minor quartz-carbonate pebbles, brown layer with tan-brown-red quartz-carbonate-feldspar pebbles, minor greenschist. Mostly fines, no bedrock

---

Sample Number: S052490 UTM: 578419 mE Nad83, Zone 7

Elevation: 4728 m UTM: 6820799 mN

Comments: TR-17-03V (0-1.5m): Medium grey-brown shale/phyllite/schist with minor quartz carbonate veins/veinlets. Fines and cobbles. No bedrock

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Sample Number: S052491 UTM: 578421 mE Nad83, Zone 7

Elevation: 4725 m UTM: 6820800 mN

Comments: TR-17-03V (1.5-3m): Medium grey-brown shale/phyllite/schist with minor quartz carbonate veins/veinlets, brown phyllite cobbles. Fines and cobbles. No bedrock

---

Sample Number: S052492 UTM: 578424 mE Nad83, Zone 7

Elevation: 4722 m UTM: 6820800 mN

Comments: TR-17-03V (3-4.5m): Medium grey-brown shale/phyllite/schist with minor quartz carbonate veins/veinlets, brown phyllite and tan-brown phyllite/schist fines. Fines and cobbles. No bedrock

---

Sample Number: S052493 UTM: 578424 mE Nad83, Zone 7

Elevation: 4724 m UTM: 6820799 mN

Comments: TR-17-03V (4.5-6m): Tan-brown phyllite/schist fines and cobbles with minor grey-black shale/slate. No bedrock

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**Rock Sample Descriptions**Property: Vault

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Sample Number: S052494 UTM: 578427 mE Nad83, Zone 7

Elevation: 4711 m UTM: 6820801 mN

Comments: TR-17-03V (6-7.5m): Tan-brown phyllite/schist fines and cobbles with minor grey-black shale/slate. No bedrock

---

Sample Number: S052495 UTM: 578426 mE Nad83, Zone 7

Elevation: 4713 m UTM: 6820799 mN

Comments: TR-17-03V (7.5-9m): Tan-brown phyllite/schist fines and cobbles with minor grey-black shale/slate. No bedrock

---

Sample Number: S052496 UTM: 578430 mE Nad83, Zone 7

Elevation: 4715 m UTM: 6820798 mN

Comments: TR-17-03V (9-10.5m): Tan-brown phyllite/schist fines and cobbles with minor grey-black shale/slate and green-grey phyllite/schist. No bedrock

---

Sample Number: S052497 UTM: 578402 mE Nad83, Zone 7

Elevation: 4745 m UTM: 6820758 mN

Comments: TR-17-04V (0-1.5m): Grey-black-blue shale/slate, quartz-carbonate pebbles and minor pebbles of light grey schist/phyllite. All fines and pebbles, no bedrock

---

Sample Number: S052498 UTM: 578404 mE Nad83, Zone 7

Elevation: 4751 m UTM: 6820758 mN

Comments: TR-17-04V (1.5-3m): Grey-black-blue shale/slate, quartz-carbonate pebbles and minor pebbles of light grey schist/phyllite. All fines and pebbles, no bedrock

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Sample Number: S052499 UTM: 578403 mE Nad83, Zone 7

Elevation: 4756 m UTM: 6820762 mN

Comments: TR-17-04V (3-4.5m): Grey-black-blue shale/slate, quartz-carbonate pebbles and minor pebbles of light grey schist/phyllite. All fines and pebbles, no bedrock

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: S052500 UTM: 578403 mE Nad83, Zone 7  
Elevation: 4753 m UTM: 6820763 mN

Comments: TR-17-04V (4.5-6m): Grey-black-blue shale/slate, quartz-carbonate pebbles and minor pebbles of light grey schist/phyllite. All fines and pebbles, no bedrock

---

**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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**Plus Appendix Pages**  
**Finalized Date: 5- SEP- 2017**  
**Account: MTT**

**CERTIFICATE WH17165195**

Project: VAULT

This report is for 13 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8- AUG- 2017.

The following have access to data associated with this certificate:

|              |                |             |
|--------------|----------------|-------------|
| ANDREW CARNE | JOAN MARIACHER | JACK MORTON |
|--------------|----------------|-------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI- 21            | Received Sample Weight         |
| LOG- 21            | Sample logging - ClientBarCode |
| CRU- QC            | Crushing QC Test               |
| PUL- QC            | Pulverizing QC Test            |
| CRU- 31            | Fine crushing - 70% <2mm       |
| SPL- 21            | Split sample - riffle splitter |
| PUL- 31            | Pulverize split to 85% < 75 um |

| ANALYTICAL PROCEDURES |                                |            |
|-----------------------|--------------------------------|------------|
| ALS CODE              | DESCRIPTION                    | INSTRUMENT |
| Au- AA24              | Au 50g FA AA finish            | AAS        |
| ME- ICP41             | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165195**

| Sample Description | Method Analyte Units LOR | WEI- 21 Recvd Wt. kg | Au- AA24 Au ppm | ME- ICP41 Ag ppm | ME- ICP41 Al % | ME- ICP41 As ppm | ME- ICP41 B ppm | ME- ICP41 Ba ppm | ME- ICP41 Be ppm | ME- ICP41 Bi ppm | ME- ICP41 Ca % | ME- ICP41 Cd ppm | ME- ICP41 Co ppm | ME- ICP41 Cr ppm | ME- ICP41 Cu ppm | ME- ICP41 Fe % |
|--------------------|--------------------------|----------------------|-----------------|------------------|----------------|------------------|-----------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|
|                    |                          | 0.02                 | 0.005           | 0.2              | 0.01           | 2                | 10              | 10               | 0.5              | 2                | 0.01           | 0.5              | 1                | 1                | 1                | 0.01           |
| K293114            |                          | 1.61                 | 1.730           | 2.9              | 0.05           | <2               | <10             | 10               | <0.5             | 2                | 0.92           | <0.5             | 2                | 25               | 180              | 1.03           |
| K293115            |                          | 1.02                 | 0.025           | 0.9              | 0.10           | <2               | <10             | 30               | <0.5             | 3                | 1.34           | <0.5             | 2                | 30               | 3                | 0.71           |
| K293116            |                          | 0.87                 | 0.005           | <0.2             | 0.01           | <2               | <10             | <10              | <0.5             | 2                | 0.73           | <0.5             | 1                | 26               | 1                | 0.45           |
| K293117            |                          | 0.85                 | 0.043           | 0.8              | 1.33           | 2                | 10              | 10               | <0.5             | <2               | 9.4            | <0.5             | 15               | 61               | 1630             | 1.59           |
| K293118            |                          | 0.42                 | <0.005          | 0.2              | 1.81           | <2               | 10              | 260              | <0.5             | <2               | 13.9           | <0.5             | 11               | 51               | 316              | 2.61           |
| K293119            |                          | 0.98                 | <0.005          | 0.2              | 0.50           | 8                | <10             | 30               | <0.5             | <2               | 6.94           | <0.5             | 5                | 9                | 125              | 1.56           |
| K293120            |                          | 1.57                 | <0.005          | 1.8              | 3.04           | 5                | <10             | 10               | <0.5             | <2               | 6.03           | 1.0              | 33               | 61               | 99               | 8.23           |
| K293121            |                          | 0.44                 | 0.007           | 0.2              | 2.48           | 4                | <10             | 50               | <0.5             | <2               | 12.3           | <0.5             | 22               | 86               | 81               | 4.97           |
| K293122            |                          | 1.61                 | 0.624           | 1.1              | 0.99           | 5                | <10             | 10               | <0.5             | <2               | 4.44           | <0.5             | 12               | 56               | 1920             | 2.32           |
| K293123            |                          | 1.93                 | 0.013           | 0.3              | 1.12           | 2                | <10             | 10               | <0.5             | <2               | 19.3           | <0.5             | 28               | 54               | 150              | 3.35           |
| K293124            |                          | 1.84                 | 0.020           | 0.2              | 0.14           | 7                | <10             | 120              | <0.5             | <2               | 19.7           | 0.6              | 2                | 4                | 21               | 3.04           |
| K293125            |                          | 1.04                 | 0.056           | 0.9              | 0.11           | <2               | <10             | 10               | <0.5             | 2                | 16.8           | 0.6              | 1                | 6                | 10               | 0.57           |
| K293126            |                          | 1.14                 | 0.006           | <0.2             | 0.15           | 3                | <10             | 20               | <0.5             | <2               | 16.6           | 0.8              | 3                | 8                | 30               | 1.23           |



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 Account: MTT

Project: VAULT

|   |
|---|
| <b>CERTIFICATE OF ANALYSIS WH17165195</b> |
|---|

| Sample Description | Method       | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte      | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr  |
|                    | Units<br>LOR | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm |
|                    |              | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1   |
| K293114            |              | <10       | <1        | 0.02      | <10       | 0.03      | 121       | 3         | 0.01      | 2         | 20        | 3         | 0.45      | <2        | <1        | 22  |
| K293115            |              | <10       | <1        | 0.04      | <10       | 0.52      | 198       | 14        | 0.01      | 5         | 240       | 184       | 0.11      | <2        | 1         | 45  |
| K293116            |              | <10       | <1        | <0.01     | <10       | 0.06      | 81        | <1        | <0.01     | 2         | <10       | <2        | 0.01      | 2         | <1        | 3   |
| K293117            |              | <10       | <1        | <0.01     | <10       | 0.71      | 430       | <1        | 0.02      | 56        | 390       | 2         | 0.03      | 5         | 7         | 183 |
| K293118            |              | 10        | 1         | 0.01      | <10       | 0.98      | 535       | <1        | 0.02      | 23        | 210       | <2        | 0.02      | <2        | 7         | 447 |
| K293119            |              | <10       | <1        | 0.12      | <10       | 0.27      | 1180      | <1        | 0.02      | 3         | 360       | 5         | 0.66      | <2        | 3         | 394 |
| K293120            |              | 10        | 1         | 0.01      | <10       | 2.41      | 2340      | 2         | 0.05      | 50        | 650       | 14        | 1.74      | <2        | 12        | 41  |
| K293121            |              | 10        | <1        | 0.17      | <10       | 2.10      | 1305      | <1        | 0.03      | 54        | 460       | <2        | 0.33      | <2        | 12        | 265 |
| K293122            |              | <10       | <1        | 0.02      | 10        | 0.76      | 688       | <1        | 0.04      | 17        | 500       | 422       | 0.25      | <2        | 7         | 166 |
| K293123            |              | <10       | <1        | 0.03      | <10       | 0.84      | 1925      | <1        | 0.02      | 46        | 210       | 5         | 1.16      | <2        | 9         | 328 |
| K293124            |              | <10       | 1         | <0.01     | <10       | 8.23      | 1485      | <1        | 0.01      | 20        | 100       | 13        | 1.63      | 2         | 1         | 325 |
| K293125            |              | <10       | 1         | 0.02      | <10       | 1.85      | 895       | <1        | 0.01      | 5         | 110       | 4         | 0.06      | 2         | 1         | 382 |
| K293126            |              | <10       | <1        | <0.01     | <10       | 4.58      | 1075      | 1         | 0.01      | 7         | 220       | 4         | 0.32      | <2        | 1         | 243 |



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 Account: MTT

Project: VAULT

|                                       |
|---------------------------------------|
| CERTIFICATE OF ANALYSIS    WH17165195 |
|---------------------------------------|

| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Th        | Ti        | Tl        | U         | V         | W         |
|                    | Units   | ppm       | %         | ppm       | ppm       | ppm       | ppm       |
| LOR                |         | 20        | 0.01      | 10        | 10        | 1         | 10        |
| K293114            |         | <20       | <0.01     | <10       | <10       | 2         | <10       |
| K293115            |         | <20       | <0.01     | <10       | <10       | 4         | <10       |
| K293116            |         | <20       | <0.01     | <10       | <10       | 1         | <10       |
| K293117            |         | <20       | 0.51      | <10       | <10       | 82        | <10       |
| K293118            |         | <20       | 0.23      | <10       | <10       | 98        | <10       |
| K293119            |         | <20       | <0.01     | <10       | <10       | 8         | <10       |
| K293120            |         | <20       | 0.58      | <10       | <10       | 247       | <10       |
| K293121            |         | <20       | 0.01      | <10       | <10       | 154       | <10       |
| K293122            |         | <20       | 0.03      | <10       | <10       | 78        | <10       |
| K293123            |         | <20       | 0.05      | <10       | <10       | 57        | <10       |
| K293124            |         | <20       | <0.01     | <10       | <10       | 6         | <10       |
| K293125            |         | <20       | <0.01     | <10       | <10       | 4         | <10       |
| K293126            |         | <20       | <0.01     | <10       | <10       | 5         | <10       |





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 North Vancouver BC V7H 0A7  
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**Total # Pages: 6 (A - C)**  
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**Account: MTT**

**CERTIFICATE WH17165202**

Project: VAULT

This report is for 198 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- AUG- 2017.

The following have access to data associated with this certificate:

|              |                |             |
|--------------|----------------|-------------|
| ANDREW CARNE | JOAN MARIACHER | JACK MORTON |
|--------------|----------------|-------------|

| SAMPLE PREPARATION |                                 |
|--------------------|---------------------------------|
| ALS CODE           | DESCRIPTION                     |
| WEI- 21            | Received Sample Weight          |
| LOG- 22            | Sample login - Rcd w/o BarCode  |
| SCR- 41            | Screen to - 180um and save both |

| ANALYTICAL PROCEDURES |                                |            |
|-----------------------|--------------------------------|------------|
| ALS CODE              | DESCRIPTION                    | INSTRUMENT |
| Au- AA24              | Au 50g FA AA finish            | AAS        |
| ME- ICP41             | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 17- SEP- 2017  
 Account: MTT

Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method  | WEI- 21   | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Au       | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        |
| Units              |         | kg        | ppm      | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         |
| LOR                |         | 0.02      | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| ZZ117389           |         | 0.45      | 0.007    | <0.2      | 4.30      | 6         | <10       | 60        | <0.5      | <2        | 1.12      | <0.5      | 50        | 668       | 134       | 6.26      |
| ZZ117390           |         | 0.69      | <0.005   | <0.2      | 4.19      | 23        | <10       | 40        | <0.5      | <2        | 1.59      | <0.5      | 58        | 623       | 184       | 6.37      |
| ZZ117391           |         | 0.75      | 0.389    | 0.3       | 2.75      | 1550      | <10       | 100       | 0.6       | <2        | 0.60      | 2.4       | 42        | 59        | 155       | 6.95      |
| ZZ117392           |         | 0.79      | 0.010    | <0.2      | 3.97      | 11        | <10       | 110       | <0.5      | <2        | 2.51      | <0.5      | 37        | 133       | 205       | 6.95      |
| ZZ117393           |         | 0.61      | 0.007    | <0.2      | 3.55      | 6         | <10       | 50        | <0.5      | <2        | 1.33      | <0.5      | 41        | 115       | 132       | 5.83      |
| ZZ117394           |         | 0.71      | 0.010    | <0.2      | 4.21      | <2        | <10       | 30        | <0.5      | 2         | 1.13      | <0.5      | 46        | 116       | 252       | 6.70      |
| ZZ117395           |         | 0.63      | 0.006    | <0.2      | 3.53      | 2         | <10       | 40        | <0.5      | 2         | 1.98      | <0.5      | 39        | 93        | 294       | 6.57      |
| ZZ117396           |         | 0.70      | 0.006    | <0.2      | 3.93      | 2         | <10       | 20        | <0.5      | 2         | 2.32      | <0.5      | 51        | 159       | 234       | 7.36      |
| ZZ117397           |         | 0.70      | 0.016    | <0.2      | 3.05      | 8         | <10       | 120       | <0.5      | <2        | 0.77      | <0.5      | 43        | 122       | 185       | 5.99      |
| ZZ117398           |         | 0.48      | 0.028    | <0.2      | 2.27      | 14        | <10       | 90        | <0.5      | <2        | 0.58      | <0.5      | 25        | 66        | 322       | 4.65      |
| ZZ117399           |         | 0.56      | 0.006    | <0.2      | 4.49      | 7         | <10       | 110       | <0.5      | <2        | 1.81      | <0.5      | 61        | 202       | 315       | 8.52      |
| ZZ117400           |         | 0.43      | 0.027    | <0.2      | 3.09      | 18        | <10       | 90        | <0.5      | <2        | 0.80      | <0.5      | 40        | 95        | 204       | 6.55      |
| ZZ117401           |         | 0.41      | 0.015    | <0.2      | 2.78      | 26        | <10       | 110       | 0.6       | <2        | 0.53      | <0.5      | 32        | 88        | 220       | 5.71      |
| ZZ117402           |         | 0.65      | 0.005    | <0.2      | 5.61      | <2        | <10       | 30        | <0.5      | <2        | 1.09      | <0.5      | 49        | 209       | 383       | 9.07      |
| ZZ117403           |         | 0.61      | 0.006    | <0.2      | 6.07      | 223       | <10       | 10        | <0.5      | <2        | 3.29      | <0.5      | 86        | 1895      | 94        | 7.35      |
| ZZ117404           |         | 0.24      | 0.011    | <0.2      | 2.03      | 59        | <10       | 10        | <0.5      | <2        | 0.85      | <0.5      | 16        | 15        | 69        | 6.62      |
| ZZ117405           |         | 0.62      | 4.38     | 2.3       | 1.10      | 5120      | <10       | 40        | 0.7       | <2        | 1.35      | <0.5      | 35        | 14        | 162       | 5.97      |
| ZZ117406           |         | 0.26      | 0.024    | 1.0       | 1.87      | 46        | <10       | 10        | 0.7       | <2        | 2.57      | <0.5      | 20        | 15        | 363       | 5.48      |
| ZZ117407           |         | 0.55      | 0.016    | <0.2      | 1.81      | 35        | <10       | 30        | <0.5      | <2        | 1.94      | <0.5      | 15        | 58        | 59        | 3.20      |
| ZZ117408           |         | 0.29      | 0.019    | 0.4       | 1.57      | 225       | <10       | 30        | 0.6       | 2         | 2.72      | 9.2       | 69        | 97        | 225       | 3.56      |
| ZZ117409           |         | 0.71      | 0.102    | 1.0       | 1.35      | 456       | <10       | 20        | <0.5      | <2        | 3.57      | <0.5      | 86        | 213       | 178       | 7.50      |
| ZZ117410           |         | 0.26      | 0.020    | 0.2       | 2.31      | 24        | <10       | 130       | <0.5      | <2        | 0.72      | <0.5      | 36        | 55        | 241       | 5.84      |
| ZZ117411           |         | 0.62      | 0.008    | <0.2      | 2.39      | 18        | <10       | 90        | <0.5      | <2        | 0.58      | <0.5      | 31        | 120       | 101       | 4.74      |
| ZZ117412           |         | 0.27      | 0.007    | 0.4       | 3.15      | 15        | <10       | 100       | <0.5      | <2        | 0.76      | 0.5       | 55        | 188       | 192       | 6.90      |
| ZZ117413           |         | 0.76      | 0.006    | 0.3       | 2.21      | 15        | <10       | 240       | 0.5       | <2        | 0.73      | 0.5       | 44        | 97        | 107       | 4.99      |
| ZZ117414           |         | 0.28      | 0.014    | 0.2       | 1.34      | 10        | <10       | 90        | <0.5      | <2        | 0.47      | <0.5      | 16        | 50        | 51        | 3.12      |
| ZZ117415           |         | 0.54      | 0.007    | <0.2      | 2.37      | 19        | <10       | 110       | 0.5       | <2        | 0.54      | <0.5      | 28        | 49        | 112       | 5.28      |
| ZZ117416           |         | 0.26      | 0.010    | 0.3       | 3.33      | 4         | 10        | 110       | 0.6       | 3         | 2.17      | 1.2       | 50        | 50        | 410       | 9.34      |
| ZZ117417           |         | 0.63      | 0.027    | <0.2      | 2.42      | 8         | <10       | 70        | <0.5      | <2        | 0.77      | <0.5      | 34        | 85        | 173       | 4.67      |
| ZZ117418           |         | 0.28      | <0.005   | <0.2      | 4.72      | 2         | <10       | 30        | <0.5      | <2        | 0.75      | <0.5      | 54        | 655       | 188       | 5.90      |
| ZZ117419           |         | 0.60      | <0.005   | <0.2      | 2.55      | 7         | <10       | 40        | <0.5      | 2         | 0.80      | <0.5      | 31        | 98        | 126       | 4.10      |
| ZZ117420           |         | 0.18      | 0.007    | <0.2      | 2.29      | 7         | <10       | 40        | <0.5      | <2        | 0.75      | <0.5      | 27        | 69        | 93        | 3.93      |
| ZZ117421           |         | 0.68      | 0.006    | <0.2      | 2.73      | 2         | <10       | 20        | <0.5      | <2        | 1.03      | <0.5      | 34        | 124       | 202       | 5.37      |
| ZZ117422           |         | 0.45      | 0.040    | 0.7       | 2.95      | 15        | <10       | 60        | <0.5      | <2        | 0.54      | <0.5      | 34        | 121       | 111       | 5.87      |
| ZZ117423           |         | 0.36      | 0.021    | 0.2       | 2.23      | 21        | <10       | 180       | 0.5       | 2         | 0.67      | <0.5      | 24        | 55        | 71        | 4.58      |
| ZZ117424           |         | 0.35      | 0.068    | 0.3       | 2.06      | 28        | <10       | 140       | <0.5      | <2        | 1.26      | <0.5      | 28        | 71        | 128       | 4.64      |
| ZZ117425           |         | 0.51      | 0.082    | 0.5       | 2.44      | 60        | <10       | 70        | <0.5      | <2        | 1.80      | 0.5       | 39        | 123       | 186       | 5.65      |
| ZZ117426           |         | 0.51      | 0.048    | 0.5       | 2.40      | 53        | <10       | 50        | <0.5      | 2         | 1.80      | <0.5      | 38        | 55        | 149       | 5.58      |
| ZZ117427           |         | 0.46      | 0.060    | 0.5       | 2.45      | 70        | <10       | 80        | <0.5      | 2         | 0.87      | <0.5      | 31        | 121       | 116       | 5.30      |
| ZZ117428           |         | 0.44      | 0.063    | 0.5       | 1.74      | 25        | <10       | 60        | <0.5      | <2        | 3.27      | <0.5      | 27        | 54        | 110       | 4.76      |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: VAULT

|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17165202 |
|-------------------------|------------|

| Sample Description | Method       | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte      | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        |     |
|                    | Units<br>LOR | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm |
|                    |              | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1   |
| ZZ117389           |              | 10        | <1        | 0.02      | <10       | 4.69      | 1535      | <1        | <0.01     | 220       | 330       | 9         | 0.01      | <2        | 20        | 11  |
| ZZ117390           |              | 10        | <1        | 0.02      | <10       | 4.97      | 1730      | 1         | 0.01      | 218       | 340       | 3         | 0.02      | <2        | 23        | 48  |
| ZZ117391           |              | 10        | <1        | 0.11      | 20        | 1.81      | 825       | 2         | 0.01      | 89        | 1260      | 16        | 0.08      | 12        | 6         | 30  |
| ZZ117392           |              | 10        | <1        | 0.06      | <10       | 4.26      | 1080      | <1        | <0.01     | 72        | 490       | 2         | <0.01     | <2        | 18        | 28  |
| ZZ117393           |              | 10        | <1        | 0.05      | <10       | 3.80      | 1140      | <1        | 0.01      | 78        | 410       | <2        | 0.01      | <2        | 15        | 21  |
| ZZ117394           |              | 10        | <1        | 0.05      | <10       | 4.87      | 684       | 1         | 0.01      | 91        | 400       | <2        | 0.01      | 3         | 15        | 20  |
| ZZ117395           |              | 10        | <1        | 0.04      | <10       | 3.73      | 979       | 1         | 0.01      | 70        | 470       | <2        | 0.01      | <2        | 15        | 22  |
| ZZ117396           |              | 10        | <1        | 0.05      | <10       | 3.91      | 1050      | 1         | <0.01     | 98        | 390       | <2        | 0.01      | <2        | 14        | 19  |
| ZZ117397           |              | 10        | <1        | 0.07      | 10        | 2.87      | 1180      | 1         | 0.01      | 87        | 700       | 5         | 0.03      | 2         | 11        | 24  |
| ZZ117398           |              | 10        | 1         | 0.08      | 10        | 1.89      | 1040      | 2         | 0.02      | 60        | 960       | 6         | 0.06      | <2        | 7         | 30  |
| ZZ117399           |              | 20        | <1        | 0.05      | 10        | 4.50      | 1225      | <1        | 0.01      | 91        | 700       | 3         | 0.01      | <2        | 24        | 19  |
| ZZ117400           |              | 10        | <1        | 0.07      | 10        | 2.28      | 1310      | 1         | 0.02      | 72        | 570       | 5         | 0.06      | <2        | 13        | 25  |
| ZZ117401           |              | 10        | <1        | 0.12      | 10        | 1.73      | 1940      | 3         | 0.01      | 74        | 1040      | 9         | 0.10      | 2         | 9         | 27  |
| ZZ117402           |              | 20        | <1        | 0.04      | <10       | 6.53      | 1335      | <1        | <0.01     | 123       | 510       | 3         | <0.01     | <2        | 33        | 10  |
| ZZ117403           |              | 10        | 1         | 0.01      | 10        | 9.96      | 975       | 1         | <0.01     | 845       | 320       | <2        | <0.01     | 3         | 33        | 39  |
| ZZ117404           |              | <10       | <1        | 0.08      | 10        | 0.83      | 456       | 2         | 0.01      | 36        | 510       | 14        | 0.12      | 6         | 4         | 23  |
| ZZ117405           |              | <10       | <1        | 0.07      | 10        | 0.59      | 944       | 2         | 0.01      | 52        | 1180      | 18        | 0.07      | 7         | 9         | 58  |
| ZZ117406           |              | 10        | <1        | 0.07      | 10        | 0.93      | 906       | 2         | 0.01      | 24        | 2070      | 16        | 0.03      | 3         | 4         | 29  |
| ZZ117407           |              | 10        | <1        | 0.09      | 10        | 1.05      | 602       | <1        | 0.01      | 36        | 620       | 6         | 0.01      | 5         | 7         | 26  |
| ZZ117408           |              | <10       | <1        | 0.10      | 10        | 0.91      | 1030      | 1         | <0.01     | 158       | 480       | 115       | 0.03      | 4         | 8         | 17  |
| ZZ117409           |              | <10       | <1        | 0.04      | <10       | 2.94      | 1160      | 1         | 0.01      | 420       | 470       | 7         | 0.19      | 35        | 28        | 163 |
| ZZ117410           |              | 10        | <1        | 0.06      | 10        | 1.74      | 1505      | 3         | 0.02      | 62        | 910       | 7         | 0.04      | 3         | 12        | 31  |
| ZZ117411           |              | 10        | <1        | 0.05      | 10        | 1.66      | 784       | 2         | 0.02      | 96        | 700       | 8         | 0.06      | <2        | 9         | 22  |
| ZZ117412           |              | 10        | <1        | 0.04      | 10        | 2.92      | 1370      | 3         | 0.02      | 180       | 590       | 6         | 0.02      | 2         | 16        | 22  |
| ZZ117413           |              | 10        | 1         | 0.08      | 10        | 1.85      | 1230      | 3         | 0.02      | 103       | 780       | 8         | 0.04      | 2         | 11        | 27  |
| ZZ117414           |              | <10       | <1        | 0.08      | 10        | 0.74      | 882       | 2         | 0.02      | 51        | 590       | 8         | 0.04      | 2         | 5         | 25  |
| ZZ117415           |              | 10        | 1         | 0.06      | 10        | 1.22      | 1090      | 3         | 0.02      | 50        | 930       | 9         | 0.08      | <2        | 8         | 32  |
| ZZ117416           |              | 10        | 1         | 0.23      | <10       | 2.83      | 2250      | 2         | 0.02      | 50        | 920       | 3         | <0.01     | <2        | 30        | 53  |
| ZZ117417           |              | 10        | <1        | 0.04      | 10        | 2.26      | 914       | 1         | 0.01      | 74        | 550       | 4         | 0.01      | 2         | 10        | 28  |
| ZZ117418           |              | 10        | <1        | 0.03      | <10       | 6.64      | 1015      | 1         | <0.01     | 359       | 290       | <2        | <0.01     | <2        | 8         | 21  |
| ZZ117419           |              | 10        | <1        | 0.04      | <10       | 2.66      | 789       | 1         | 0.01      | 97        | 350       | 2         | 0.02      | <2        | 7         | 27  |
| ZZ117420           |              | 10        | <1        | 0.05      | <10       | 2.36      | 708       | 1         | 0.01      | 72        | 520       | <2        | 0.01      | <2        | 6         | 30  |
| ZZ117421           |              | 10        | <1        | 0.06      | <10       | 2.76      | 798       | 1         | <0.01     | 68        | 570       | <2        | <0.01     | 2         | 10        | 29  |
| ZZ117422           |              | 10        | <1        | 0.07      | 10        | 2.15      | 1945      | 3         | 0.01      | 66        | 820       | 8         | 0.07      | <2        | 9         | 34  |
| ZZ117423           |              | 10        | <1        | 0.06      | 10        | 1.26      | 1040      | 3         | 0.01      | 41        | 1190      | 10        | 0.09      | <2        | 3         | 34  |
| ZZ117424           |              | 10        | 1         | 0.06      | 10        | 1.57      | 1030      | 4         | <0.01     | 53        | 790       | 17        | 0.12      | <2        | 8         | 55  |
| ZZ117425           |              | 10        | <1        | 0.06      | 10        | 2.29      | 1075      | 8         | <0.01     | 77        | 830       | 21        | 0.20      | <2        | 8         | 74  |
| ZZ117426           |              | 10        | <1        | 0.05      | 10        | 1.82      | 1035      | 5         | <0.01     | 67        | 830       | 21        | 0.13      | <2        | 7         | 56  |
| ZZ117427           |              | 10        | <1        | 0.09      | 20        | 1.58      | 1530      | 6         | <0.01     | 88        | 1110      | 54        | 0.02      | <2        | 6         | 28  |
| ZZ117428           |              | 10        | <1        | 0.05      | 10        | 2.26      | 822       | 5         | <0.01     | 66        | 840       | 20        | 0.14      | 3         | 5         | 75  |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: VAULT

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17165202 |
|------------------------------------|

| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Th        | Ti        | Ti        | U         | V         | W         |
|                    | Units   | ppm       | %         | ppm       | ppm       | ppm       | ppm       |
| LOR                |         | 20        | 0.01      | 10        | 10        | 1         | 10        |
|                    |         |           |           |           |           |           | Zn        |
|                    |         |           |           |           |           |           | ppm       |
|                    |         |           |           |           |           |           | 2         |
| ZZ117389           | <20     | 0.13      | <10       | <10       | 133       | <10       | 93        |
| ZZ117390           | <20     | 0.13      | <10       | <10       | 138       | <10       | 102       |
| ZZ117391           | <20     | 0.01      | <10       | <10       | 53        | <10       | 232       |
| ZZ117392           | <20     | 0.41      | <10       | <10       | 202       | <10       | 99        |
| ZZ117393           | <20     | 0.37      | <10       | <10       | 143       | <10       | 98        |
| ZZ117394           | <20     | 0.49      | <10       | <10       | 183       | <10       | 93        |
| ZZ117395           | <20     | 0.44      | <10       | <10       | 183       | <10       | 84        |
| ZZ117396           | <20     | 0.38      | <10       | <10       | 146       | <10       | 79        |
| ZZ117397           | <20     | 0.27      | <10       | <10       | 122       | <10       | 91        |
| ZZ117398           | <20     | 0.12      | <10       | <10       | 83        | <10       | 99        |
| ZZ117399           | <20     | 0.45      | <10       | <10       | 278       | <10       | 97        |
| ZZ117400           | <20     | 0.25      | <10       | <10       | 144       | <10       | 98        |
| ZZ117401           | <20     | 0.10      | <10       | <10       | 112       | <10       | 116       |
| ZZ117402           | <20     | 0.49      | <10       | <10       | 280       | <10       | 119       |
| ZZ117403           | <20     | 0.04      | <10       | <10       | 176       | <10       | 80        |
| ZZ117404           | <20     | 0.01      | <10       | <10       | 28        | <10       | 128       |
| ZZ117405           | <20     | 0.01      | <10       | <10       | 23        | <10       | 95        |
| ZZ117406           | <20     | <0.01     | <10       | <10       | 35        | <10       | 134       |
| ZZ117407           | <20     | <0.01     | <10       | <10       | 68        | <10       | 70        |
| ZZ117408           | <20     | 0.11      | <10       | <10       | 46        | <10       | 929       |
| ZZ117409           | <20     | <0.01     | <10       | <10       | 66        | <10       | 114       |
| ZZ117410           | <20     | 0.16      | <10       | <10       | 128       | <10       | 117       |
| ZZ117411           | <20     | 0.17      | <10       | <10       | 118       | <10       | 100       |
| ZZ117412           | <20     | 0.27      | <10       | <10       | 172       | <10       | 118       |
| ZZ117413           | <20     | 0.09      | <10       | <10       | 98        | <10       | 108       |
| ZZ117414           | <20     | 0.05      | <10       | <10       | 53        | <10       | 85        |
| ZZ117415           | <20     | 0.13      | <10       | <10       | 124       | <10       | 109       |
| ZZ117416           | <20     | 0.48      | <10       | <10       | 277       | <10       | 139       |
| ZZ117417           | <20     | 0.18      | <10       | <10       | 115       | <10       | 72        |
| ZZ117418           | <20     | 0.17      | <10       | <10       | 102       | <10       | 67        |
| ZZ117419           | <20     | 0.16      | <10       | <10       | 93        | <10       | 61        |
| ZZ117420           | <20     | 0.23      | <10       | <10       | 100       | <10       | 60        |
| ZZ117421           | <20     | 0.43      | <10       | <10       | 176       | <10       | 72        |
| ZZ117422           | <20     | 0.01      | <10       | <10       | 82        | <10       | 60        |
| ZZ117423           | <20     | 0.04      | <10       | <10       | 86        | <10       | 79        |
| ZZ117424           | <20     | 0.02      | <10       | <10       | 70        | <10       | 101       |
| ZZ117425           | <20     | 0.05      | <10       | <10       | 69        | <10       | 133       |
| ZZ117426           | <20     | <0.01     | <10       | <10       | 55        | <10       | 146       |
| ZZ117427           | <20     | 0.01      | <10       | <10       | 45        | <10       | 168       |
| ZZ117428           | <20     | 0.03      | <10       | <10       | 47        | <10       | 139       |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 17- SEP- 2017  
 Account: MTT

Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method  | WEI- 21   | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Au       | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        |
| Units              |         | kg        | ppm      | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         |
| LOR                |         | 0.02      | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| ZZ117429           |         | 0.48      | 0.107    | 0.5       | 2.46      | 29        | <10       | 100       | <0.5      | 2         | 1.24      | <0.5      | 37        | 92        | 166       | 5.60      |
| ZZ117430           |         | 0.53      | 0.069    | 0.4       | 2.52      | 39        | <10       | 50        | <0.5      | 2         | 1.85      | <0.5      | 33        | 91        | 151       | 5.32      |
| ZZ117431           |         | 0.53      | 1.120    | 0.5       | 2.38      | 50        | <10       | 90        | <0.5      | 2         | 0.86      | <0.5      | 27        | 27        | 202       | 5.20      |
| ZZ117432           |         | 0.66      | 0.098    | 0.8       | 1.92      | 83        | <10       | 400       | 0.5       | 3         | 2.61      | 0.9       | 27        | 27        | 177       | 5.47      |
| ZZ117433           |         | 0.44      | 0.042    | 0.3       | 2.81      | 45        | <10       | 50        | <0.5      | 2         | 0.66      | 0.9       | 52        | 170       | 205       | 5.72      |
| ZZ117434           |         | 0.20      | 0.024    | <0.2      | 1.44      | 16        | <10       | 100       | <0.5      | <2        | 0.89      | 0.5       | 19        | 36        | 62        | 3.04      |
| ZZ117435           |         | 0.37      | 0.130    | <0.2      | 1.84      | 10        | <10       | 80        | <0.5      | 3         | 1.86      | <0.5      | 22        | 33        | 179       | 3.96      |
| ZZ117436           |         | 0.36      | 0.035    | 0.2       | 2.32      | 30        | <10       | 60        | <0.5      | <2        | 1.45      | 1.5       | 35        | 63        | 211       | 4.74      |
| ZZ117437           |         | 0.37      | 0.038    | <0.2      | 2.49      | 12        | <10       | 70        | <0.5      | <2        | 1.67      | <0.5      | 40        | 101       | 218       | 4.37      |
| ZZ117438           |         | 0.32      | 0.081    | <0.2      | 1.94      | 14        | <10       | 100       | <0.5      | <2        | 1.67      | <0.5      | 30        | 71        | 107       | 4.04      |
| ZZ117439           |         | 0.38      | 0.026    | <0.2      | 2.40      | 8         | <10       | 40        | <0.5      | <2        | 2.20      | <0.5      | 29        | 57        | 123       | 4.59      |
| ZZ117440           |         | 0.40      | 0.148    | <0.2      | 2.19      | 25        | <10       | 30        | <0.5      | 2         | 1.55      | <0.5      | 35        | 33        | 159       | 4.95      |
| ZZ117441           |         | 0.34      | 0.144    | 0.3       | 1.43      | 11        | <10       | 120       | <0.5      | <2        | 1.96      | <0.5      | 25        | 50        | 108       | 4.64      |
| ZZ117442           |         | 0.33      | 0.018    | 0.4       | 1.71      | 37        | <10       | 70        | <0.5      | <2        | 0.78      | 0.8       | 28        | 31        | 87        | 5.00      |
| ZZ117443           |         | 0.38      | 0.066    | 0.3       | 1.73      | 61        | <10       | 100       | <0.5      | <2        | 1.37      | <0.5      | 20        | 41        | 100       | 4.05      |
| ZZ117444           |         | 0.33      | 0.100    | 0.3       | 2.28      | 106       | <10       | 60        | <0.5      | <2        | 0.87      | 0.9       | 37        | 83        | 147       | 5.70      |
| ZZ117445           |         | 0.40      | 0.048    | 0.2       | 2.65      | 39        | <10       | 80        | <0.5      | 2         | 0.80      | <0.5      | 39        | 95        | 162       | 5.91      |
| ZZ117446           |         | 0.32      | 0.029    | <0.2      | 1.74      | 16        | <10       | 140       | <0.5      | <2        | 0.61      | <0.5      | 14        | 31        | 55        | 2.88      |
| ZZ117447           |         | 0.25      | 0.048    | 0.2       | 1.89      | 22        | <10       | 90        | <0.5      | <2        | 1.43      | <0.5      | 21        | 48        | 91        | 3.97      |
| ZZ117448           |         | 0.37      | 0.016    | 0.2       | 2.13      | 57        | <10       | 80        | <0.5      | 2         | 1.78      | <0.5      | 39        | 54        | 153       | 5.36      |
| ZZ117449           |         | 0.44      | 0.008    | <0.2      | 1.82      | 33        | <10       | 80        | <0.5      | <2        | 1.49      | 0.6       | 31        | 37        | 109       | 5.92      |
| ZZ117450           |         | 0.42      | 0.035    | <0.2      | 2.26      | 34        | <10       | 50        | <0.5      | 2         | 2.58      | <0.5      | 44        | 150       | 150       | 5.64      |
| ZZ117451           |         | 0.30      | 0.012    | <0.2      | 2.06      | 16        | <10       | 80        | <0.5      | 2         | 1.01      | <0.5      | 23        | 79        | 85        | 3.80      |
| ZZ117452           |         | 0.50      | 0.032    | 0.7       | 2.46      | 45        | <10       | 50        | 0.5       | <2        | 0.56      | 1.3       | 58        | 72        | 229       | 7.59      |
| ZZ117453           |         | 0.45      | 0.031    | 0.5       | 2.02      | 183       | <10       | 60        | 0.5       | <2        | 0.76      | 1.0       | 42        | 43        | 160       | 6.79      |
| ZZ117454           |         | 0.47      | 0.070    | 0.2       | 1.81      | 83        | <10       | 60        | <0.5      | 2         | 0.62      | <0.5      | 31        | 42        | 123       | 4.61      |
| ZZ117455           |         | 0.36      | 0.036    | 0.2       | 1.94      | 74        | <10       | 80        | <0.5      | <2        | 1.00      | 0.6       | 30        | 61        | 144       | 4.92      |
| ZZ117456           |         | 0.48      | 0.058    | 0.4       | 2.01      | 71        | <10       | 70        | <0.5      | <2        | 0.86      | 1.0       | 35        | 54        | 159       | 5.28      |
| ZZ117457           |         | 0.48      | 0.024    | 0.3       | 2.64      | 73        | <10       | 70        | <0.5      | 2         | 0.63      | 0.5       | 45        | 88        | 155       | 5.84      |
| ZZ117458           |         | 0.38      | 0.025    | 0.4       | 2.19      | 157       | <10       | 110       | 0.5       | 2         | 1.08      | <0.5      | 30        | 52        | 206       | 5.72      |
| ZZ117459           |         | 0.37      | 0.027    | 0.4       | 2.00      | 85        | <10       | 140       | 0.5       | <2        | 1.07      | 0.6       | 52        | 38        | 202       | 5.31      |
| ZZ117460           |         | 0.34      | 0.023    | 0.4       | 1.71      | 41        | <10       | 100       | <0.5      | <2        | 1.39      | 0.5       | 23        | 58        | 122       | 4.23      |
| ZZ117461           |         | 0.42      | 0.045    | 0.5       | 1.72      | 59        | <10       | 140       | <0.5      | 2         | 1.04      | 1.1       | 27        | 56        | 146       | 4.98      |
| ZZ117462           |         | 0.58      | 0.063    | 0.2       | 2.69      | 18        | <10       | 60        | <0.5      | 3         | 1.61      | <0.5      | 40        | 106       | 270       | 5.76      |
| ZZ117463           |         | 0.41      | 0.024    | 0.8       | 2.55      | 48        | <10       | 70        | <0.5      | <2        | 1.10      | 1.5       | 49        | 264       | 182       | 5.76      |
| ZZ117464           |         | 0.45      | 0.096    | 1.3       | 0.83      | 374       | <10       | 90        | <0.5      | 3         | 2.67      | 3.2       | 42        | 54        | 191       | 6.22      |
| ZZ117465           |         | 0.41      | 0.066    | 0.5       | 2.34      | 86        | <10       | 40        | <0.5      | 2         | 2.16      | 0.5       | 60        | 87        | 1120      | 7.49      |
| ZZ117466           |         | 0.41      | 0.085    | <0.2      | 2.85      | 18        | <10       | 120       | <0.5      | <2        | 0.77      | <0.5      | 39        | 90        | 219       | 5.57      |
| ZZ117467           |         | 0.37      | 0.009    | 0.5       | 2.76      | 37        | <10       | 100       | <0.5      | 3         | 1.21      | 1.1       | 63        | 220       | 192       | 5.80      |
| ZZ117468           |         | 0.27      | 0.005    | 0.2       | 1.97      | 29        | <10       | 120       | <0.5      | <2        | 1.03      | <0.5      | 26        | 70        | 77        | 3.72      |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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| CERTIFICATE OF ANALYSIS WH17165202 |
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| Sample Description | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr        |
|                    | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       |
|                    | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         |
| ZZ117429           | 10        | <1        | 0.05      | 10        | 2.14      | 1340      | 4         | <0.01     | 73        | 880       | 24        | 0.17      | <2        | 9         | 45        |
| ZZ117430           | 10        | <1        | 0.04      | 10        | 1.87      | 1170      | 3         | <0.01     | 71        | 990       | 33        | 0.08      | <2        | 7         | 46        |
| ZZ117431           | 10        | <1        | 0.11      | 10        | 1.37      | 1085      | 6         | <0.01     | 40        | 1450      | 24        | 0.03      | <2        | 5         | 46        |
| ZZ117432           | 10        | <1        | 0.08      | 10        | 1.19      | 1220      | 19        | <0.01     | 52        | 780       | 28        | 0.17      | <2        | 8         | 151       |
| ZZ117433           | 10        | <1        | 0.04      | 10        | 2.61      | 1465      | 2         | <0.01     | 67        | 570       | 31        | 0.12      | <2        | 9         | 29        |
| ZZ117434           | 10        | <1        | 0.05      | 10        | 0.78      | 798       | 2         | 0.01      | 31        | 1000      | 16        | 0.13      | 2         | 3         | 38        |
| ZZ117435           | 10        | <1        | 0.05      | 10        | 1.15      | 1050      | 2         | 0.01      | 27        | 940       | 8         | 0.13      | <2        | 8         | 55        |
| ZZ117436           | 10        | 1         | 0.05      | 10        | 1.73      | 1195      | 2         | <0.01     | 38        | 920       | 14        | 0.09      | <2        | 6         | 49        |
| ZZ117437           | 10        | 1         | 0.07      | 10        | 2.38      | 1030      | 1         | <0.01     | 59        | 710       | 6         | 0.09      | <2        | 6         | 46        |
| ZZ117438           | <10       | <1        | 0.05      | 10        | 1.50      | 1360      | 2         | <0.01     | 50        | 880       | 7         | 0.18      | 2         | 10        | 53        |
| ZZ117439           | 10        | <1        | 0.05      | 10        | 1.94      | 863       | 2         | <0.01     | 32        | 880       | 4         | 0.06      | 2         | 4         | 48        |
| ZZ117440           | 10        | <1        | 0.04      | 10        | 1.67      | 979       | 1         | <0.01     | 27        | 1060      | 8         | 0.09      | <2        | 5         | 50        |
| ZZ117441           | <10       | <1        | 0.07      | 10        | 1.40      | 1020      | 2         | <0.01     | 34        | 1390      | 8         | 0.06      | <2        | 8         | 83        |
| ZZ117442           | <10       | <1        | 0.04      | 10        | 1.02      | 935       | 2         | 0.01      | 40        | 850       | 29        | 0.14      | 3         | 4         | 30        |
| ZZ117443           | <10       | <1        | 0.06      | 10        | 1.18      | 943       | 2         | <0.01     | 32        | 850       | 18        | 0.13      | <2        | 5         | 47        |
| ZZ117444           | 10        | <1        | 0.05      | 10        | 1.70      | 1305      | 2         | <0.01     | 81        | 580       | 33        | 0.08      | <2        | 10        | 37        |
| ZZ117445           | 10        | 1         | 0.05      | 10        | 2.19      | 1295      | 1         | <0.01     | 63        | 660       | 24        | 0.06      | <2        | 12        | 35        |
| ZZ117446           | 10        | <1        | 0.03      | 10        | 0.66      | 710       | 1         | 0.01      | 23        | 960       | 27        | 0.08      | <2        | 3         | 39        |
| ZZ117447           | 10        | <1        | 0.05      | 10        | 1.24      | 844       | 2         | 0.01      | 35        | 970       | 17        | 0.12      | <2        | 5         | 45        |
| ZZ117448           | 10        | <1        | 0.07      | 10        | 1.59      | 1205      | 3         | <0.01     | 61        | 1050      | 20        | 0.05      | 2         | 8         | 56        |
| ZZ117449           | 10        | 1         | 0.06      | 10        | 1.14      | 852       | 2         | <0.01     | 33        | 780       | 13        | 0.14      | <2        | 10        | 43        |
| ZZ117450           | 10        | 1         | 0.07      | 10        | 2.26      | 948       | 2         | <0.01     | 99        | 1140      | 17        | 0.11      | <2        | 9         | 73        |
| ZZ117451           | 10        | <1        | 0.05      | 10        | 1.70      | 714       | 2         | 0.01      | 64        | 700       | 4         | 0.19      | 2         | 6         | 30        |
| ZZ117452           | 10        | <1        | 0.04      | 10        | 1.53      | 1295      | 4         | 0.01      | 110       | 1090      | 20        | 0.27      | 3         | 10        | 30        |
| ZZ117453           | 10        | <1        | 0.05      | 10        | 1.28      | 1330      | 3         | 0.01      | 84        | 1040      | 26        | 0.31      | 4         | 7         | 36        |
| ZZ117454           | <10       | <1        | 0.07      | 10        | 1.05      | 1275      | 2         | <0.01     | 48        | 960       | 13        | 0.21      | 2         | 6         | 23        |
| ZZ117455           | 10        | <1        | 0.06      | 10        | 1.24      | 1105      | 2         | 0.01      | 47        | 970       | 15        | 0.25      | <2        | 9         | 37        |
| ZZ117456           | 10        | <1        | 0.06      | 10        | 1.23      | 1315      | 3         | <0.01     | 66        | 770       | 23        | 0.28      | <2        | 8         | 32        |
| ZZ117457           | 10        | <1        | 0.06      | 10        | 2.05      | 1145      | 2         | <0.01     | 73        | 870       | 19        | 0.25      | 4         | 10        | 26        |
| ZZ117458           | <10       | <1        | 0.06      | 20        | 1.52      | 1110      | 3         | <0.01     | 64        | 820       | 22        | 0.25      | 2         | 7         | 45        |
| ZZ117459           | 10        | <1        | 0.06      | 10        | 1.27      | 1285      | 2         | <0.01     | 62        | 850       | 15        | 0.15      | 2         | 7         | 49        |
| ZZ117460           | <10       | <1        | 0.05      | 10        | 1.13      | 890       | 3         | <0.01     | 68        | 790       | 17        | 0.11      | <2        | 6         | 44        |
| ZZ117461           | <10       | 1         | 0.04      | 10        | 1.07      | 985       | 3         | <0.01     | 74        | 870       | 16        | 0.11      | 2         | 7         | 37        |
| ZZ117462           | 10        | <1        | 0.03      | 10        | 2.29      | 972       | 1         | <0.01     | 87        | 800       | 6         | 0.10      | 2         | 12        | 39        |
| ZZ117463           | 10        | <1        | 0.03      | 10        | 2.67      | 736       | 6         | <0.01     | 307       | 1110      | 9         | 0.06      | 2         | 8         | 30        |
| ZZ117464           | <10       | <1        | 0.03      | 10        | 1.04      | 815       | 16        | <0.01     | 150       | 2010      | 26        | 0.26      | 4         | 13        | 123       |
| ZZ117465           | 10        | <1        | 0.03      | 10        | 2.04      | 1570      | 3         | <0.01     | 136       | 940       | 10        | 0.17      | 4         | 15        | 47        |
| ZZ117466           | 10        | <1        | 0.03      | 10        | 1.67      | 2270      | 1         | <0.01     | 79        | 720       | 7         | 0.09      | 2         | 12        | 27        |
| ZZ117467           | 10        | <1        | 0.03      | 10        | 2.87      | 971       | 3         | <0.01     | 305       | 730       | 9         | 0.09      | 2         | 11        | 30        |
| ZZ117468           | 10        | <1        | 0.04      | 10        | 1.12      | 647       | 2         | 0.01      | 83        | 900       | 9         | 0.09      | <2        | 4         | 34        |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
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 Finalized Date: 17- SEP- 2017  
 Account: MTT

Project: VAULT

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17165202 |
|------------------------------------|

| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte | Th        | Ti        | Ti        | U         | V         | W         |     |
|                    | Units   | ppm       | %         | ppm       | ppm       | ppm       | ppm       |     |
| LOR                |         | 20        | 0.01      | 10        | 10        | 1         | 10        |     |
| ZZ117429           |         | <20       | 0.02      | <10       | <10       | 70        | <10       | 129 |
| ZZ117430           |         | <20       | 0.02      | <10       | <10       | 60        | <10       | 132 |
| ZZ117431           |         | <20       | 0.11      | <10       | <10       | 63        | <10       | 163 |
| ZZ117432           |         | <20       | <0.01     | <10       | <10       | 53        | <10       | 227 |
| ZZ117433           |         | <20       | 0.07      | <10       | <10       | 94        | <10       | 106 |
| ZZ117434           |         | <20       | 0.05      | <10       | <10       | 51        | <10       | 78  |
| ZZ117435           |         | <20       | 0.02      | <10       | <10       | 66        | <10       | 85  |
| ZZ117436           |         | <20       | 0.03      | <10       | <10       | 71        | <10       | 241 |
| ZZ117437           |         | <20       | 0.04      | <10       | <10       | 59        | <10       | 76  |
| ZZ117438           |         | <20       | 0.02      | <10       | <10       | 63        | <10       | 56  |
| ZZ117439           |         | <20       | 0.06      | <10       | <10       | 53        | <10       | 68  |
| ZZ117440           |         | <20       | 0.04      | <10       | <10       | 64        | <10       | 80  |
| ZZ117441           |         | <20       | 0.02      | <10       | <10       | 53        | <10       | 63  |
| ZZ117442           |         | <20       | 0.03      | <10       | <10       | 47        | <10       | 139 |
| ZZ117443           |         | <20       | 0.02      | <10       | <10       | 52        | <10       | 86  |
| ZZ117444           |         | <20       | 0.04      | <10       | <10       | 85        | <10       | 185 |
| ZZ117445           |         | <20       | 0.05      | <10       | <10       | 118       | <10       | 100 |
| ZZ117446           |         | <20       | 0.04      | <10       | <10       | 51        | <10       | 73  |
| ZZ117447           |         | <20       | 0.03      | <10       | <10       | 62        | <10       | 73  |
| ZZ117448           |         | <20       | 0.01      | <10       | <10       | 59        | <10       | 116 |
| ZZ117449           |         | <20       | <0.01     | <10       | <10       | 54        | <10       | 134 |
| ZZ117450           |         | <20       | 0.01      | <10       | <10       | 85        | <10       | 129 |
| ZZ117451           |         | <20       | 0.09      | <10       | <10       | 83        | <10       | 80  |
| ZZ117452           |         | <20       | 0.02      | <10       | <10       | 71        | <10       | 291 |
| ZZ117453           |         | <20       | 0.02      | <10       | <10       | 51        | <10       | 233 |
| ZZ117454           |         | <20       | 0.02      | <10       | <10       | 52        | <10       | 87  |
| ZZ117455           |         | <20       | 0.02      | <10       | <10       | 69        | <10       | 206 |
| ZZ117456           |         | <20       | 0.02      | <10       | <10       | 66        | <10       | 207 |
| ZZ117457           |         | <20       | 0.02      | <10       | <10       | 88        | <10       | 161 |
| ZZ117458           |         | <20       | 0.01      | <10       | <10       | 64        | <10       | 131 |
| ZZ117459           |         | <20       | 0.02      | <10       | <10       | 64        | <10       | 142 |
| ZZ117460           |         | <20       | 0.01      | <10       | <10       | 50        | <10       | 126 |
| ZZ117461           |         | <20       | 0.01      | <10       | <10       | 48        | <10       | 201 |
| ZZ117462           |         | <20       | 0.01      | <10       | <10       | 92        | <10       | 105 |
| ZZ117463           |         | <20       | 0.15      | <10       | <10       | 129       | <10       | 149 |
| ZZ117464           |         | <20       | 0.01      | <10       | <10       | 60        | <10       | 266 |
| ZZ117465           |         | <20       | 0.01      | <10       | <10       | 87        | <10       | 116 |
| ZZ117466           |         | <20       | 0.02      | <10       | <10       | 93        | <10       | 66  |
| ZZ117467           |         | <20       | 0.14      | <10       | <10       | 136       | <10       | 114 |
| ZZ117468           |         | <20       | 0.07      | <10       | <10       | 79        | <10       | 78  |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: VAULT

|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17165202 |
|-------------------------|------------|

| Method Analyte Units LOR | WEI- 21 Recvd Wt. kg | Au- AA24 Au ppm | ME- ICP41 Ag ppm | ME- ICP41 Al % | ME- ICP41 As ppm | ME- ICP41 B ppm | ME- ICP41 Ba ppm | ME- ICP41 Be ppm | ME- ICP41 Bi ppm | ME- ICP41 Ca % | ME- ICP41 Cd ppm | ME- ICP41 Co ppm | ME- ICP41 Cr ppm | ME- ICP41 Cu ppm | ME- ICP41 Fe % |
|--------------------------|----------------------|-----------------|------------------|----------------|------------------|-----------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|
| Sample Description       | 0.02                 | 0.005           | 0.2              | 0.01           | 2                | 10              | 10               | 0.5              | 2                | 0.01           | 0.5              | 1                | 1                | 1                | 0.01           |
| ZZ117469                 | 0.31                 | <0.005          | <0.2             | 1.54           | 40               | <10             | 120              | <0.5             | <2               | 0.74           | <0.5             | 17               | 49               | 68               | 2.64           |
| ZZ117470                 | 0.53                 | 0.012           | <0.2             | 3.19           | 15               | <10             | 100              | <0.5             | 2                | 0.94           | <0.5             | 38               | 113              | 179              | 5.82           |
| ZZ117471                 | 0.37                 | 0.014           | <0.2             | 2.28           | 19               | <10             | 100              | <0.5             | 2                | 0.93           | <0.5             | 22               | 77               | 110              | 4.40           |
| ZZ117472                 | 0.45                 | 0.011           | <0.2             | 3.43           | 23               | 10              | 110              | <0.5             | 5                | 0.99           | <0.5             | 39               | 124              | 210              | 6.30           |
| ZZ117473                 | 0.51                 | 0.012           | <0.2             | 3.47           | 18               | <10             | 50               | <0.5             | 4                | 1.34           | <0.5             | 40               | 128              | 188              | 6.46           |
| ZZ117474                 | 0.39                 | 0.016           | <0.2             | 3.24           | 22               | <10             | 60               | <0.5             | <2               | 1.09           | <0.5             | 36               | 118              | 196              | 6.09           |
| ZZ117475                 | 0.42                 | 0.009           | <0.2             | 3.43           | 38               | <10             | 60               | <0.5             | 4                | 0.92           | <0.5             | 43               | 155              | 217              | 7.23           |
| ZZ117476                 | 0.52                 | 0.037           | <0.2             | 2.96           | 134              | <10             | 50               | <0.5             | <2               | 1.09           | 0.5              | 43               | 200              | 161              | 6.09           |
| ZZ117477                 | 0.36                 | 0.015           | 0.2              | 2.32           | 104              | <10             | 70               | <0.5             | <2               | 0.96           | <0.5             | 31               | 126              | 119              | 4.70           |
| ZZ117478                 | 0.44                 | 0.010           | 0.2              | 2.20           | 61               | <10             | 40               | <0.5             | 2                | 0.81           | <0.5             | 28               | 138              | 90               | 4.98           |
| ZZ117479                 | 0.33                 | 0.048           | 0.2              | 2.53           | 22               | <10             | 100              | <0.5             | 3                | 1.10           | <0.5             | 32               | 115              | 163              | 5.47           |
| ZZ117480                 | 0.50                 | 0.050           | <0.2             | 4.23           | 10               | <10             | 120              | <0.5             | 2                | 0.51           | <0.5             | 47               | 227              | 250              | 7.28           |
| ZZ117481                 | 0.29                 | 0.031           | <0.2             | 2.59           | 20               | <10             | 100              | <0.5             | 3                | 0.73           | <0.5             | 28               | 94               | 136              | 5.13           |
| ZZ117482                 | 0.38                 | 0.037           | <0.2             | 2.54           | 13               | <10             | 80               | <0.5             | 2                | 1.00           | <0.5             | 26               | 92               | 122              | 4.94           |
| ZZ117483                 | 0.38                 | 0.026           | 0.4              | 1.96           | 47               | 10              | 130              | <0.5             | <2               | 1.05           | 0.5              | 25               | 52               | 117              | 4.72           |
| ZZ117484                 | 0.45                 | 0.020           | 0.4              | 2.18           | 52               | <10             | 90               | <0.5             | <2               | 0.88           | 0.5              | 30               | 69               | 131              | 5.55           |
| ZZ117485                 | 0.42                 | 0.022           | 0.3              | 2.00           | 45               | 10              | 60               | <0.5             | <2               | 0.97           | 0.6              | 26               | 33               | 125              | 5.09           |
| ZZ117486                 | 0.46                 | 0.012           | <0.2             | 1.64           | 20               | <10             | 90               | <0.5             | <2               | 1.07           | 0.5              | 17               | 29               | 113              | 3.88           |
| ZZ117487                 | 0.49                 | 0.047           | 0.4              | 1.56           | 27               | <10             | 60               | <0.5             | <2               | 1.50           | 0.5              | 21               | 32               | 102              | 3.76           |
| ZZ117488                 | 0.30                 | 0.015           | 0.3              | 1.65           | 82               | 10              | 60               | <0.5             | <2               | 1.29           | 0.5              | 25               | 24               | 98               | 5.13           |
| ZZ117489                 | 0.43                 | 0.035           | 0.3              | 1.77           | 90               | 10              | 100              | <0.5             | <2               | 1.07           | 0.9              | 31               | 39               | 106              | 5.81           |
| ZZ117490                 | 0.33                 | 0.014           | 0.3              | 1.76           | 61               | 10              | 80               | <0.5             | <2               | 1.18           | 0.7              | 20               | 42               | 88               | 4.05           |
| ZZ117491                 | 0.47                 | 0.020           | 0.3              | 1.99           | 48               | <10             | 80               | <0.5             | <2               | 0.72           | 0.7              | 24               | 51               | 106              | 5.17           |
| ZZ117492                 | 0.34                 | 0.021           | <0.2             | 1.54           | 26               | <10             | 100              | <0.5             | 2                | 0.79           | <0.5             | 17               | 42               | 96               | 3.13           |
| ZZ117493                 | 0.37                 | 0.033           | 0.3              | 2.24           | 30               | <10             | 80               | <0.5             | <2               | 1.36           | <0.5             | 29               | 113              | 184              | 4.50           |
| ZZ117494                 | 0.36                 | 0.048           | 0.3              | 2.67           | 34               | 10              | 80               | <0.5             | <2               | 0.81           | 0.7              | 39               | 101              | 164              | 5.23           |
| ZZ117495                 | 0.35                 | 0.036           | 0.3              | 1.89           | 15               | <10             | 90               | <0.5             | <2               | 1.47           | <0.5             | 22               | 66               | 176              | 3.71           |
| ZZ117496                 | 0.37                 | 0.080           | 0.2              | 1.61           | 10               | <10             | 60               | <0.5             | <2               | 1.23           | <0.5             | 19               | 30               | 94               | 3.38           |
| ZZ117497                 | 0.38                 | 0.039           | 0.2              | 1.74           | 13               | 10              | 80               | <0.5             | <2               | 1.56           | <0.5             | 20               | 58               | 110              | 3.41           |
| ZZ117498                 | 0.49                 | 0.088           | 0.3              | 2.23           | 28               | <10             | 70               | <0.5             | <2               | 0.83           | <0.5             | 33               | 81               | 199              | 4.50           |
| ZZ117499                 | 0.47                 | 0.138           | 0.3              | 2.51           | 7                | <10             | 50               | <0.5             | <2               | 1.14           | 0.8              | 35               | 60               | 110              | 5.54           |
| ZZ117500                 | 0.28                 | 0.037           | <0.2             | 1.63           | 37               | <10             | 90               | <0.5             | <2               | 0.83           | <0.5             | 18               | 37               | 88               | 4.00           |
| ZZ117114                 | 0.18                 | 0.047           | 0.3              | 2.51           | 48               | <10             | 50               | <0.5             | <2               | 2.36           | 0.5              | 76               | 121              | 254              | 5.07           |
| ZZ117115                 | 0.20                 | 0.040           | 0.3              | 1.70           | 25               | 10              | 110              | <0.5             | <2               | 1.68           | <0.5             | 22               | 55               | 92               | 3.76           |
| ZZ117116                 | 0.27                 | 0.055           | 0.2              | 2.11           | 17               | <10             | 120              | <0.5             | <2               | 1.34           | <0.5             | 25               | 50               | 111              | 4.47           |
| ZZ117117                 | 0.24                 | 0.038           | 0.2              | 1.73           | 16               | <10             | 80               | 0.5              | <2               | 1.36           | <0.5             | 25               | 28               | 120              | 4.21           |
| ZZ117118                 | 0.31                 | 0.037           | 0.3              | 3.42           | 16               | <10             | 70               | <0.5             | <2               | 2.91           | <0.5             | 39               | 192              | 134              | 6.24           |
| ZZ117119                 | 0.23                 | 0.039           | 0.5              | 1.94           | 23               | <10             | 60               | <0.5             | <2               | 4.15           | <0.5             | 24               | 45               | 109              | 4.87           |
| ZZ117120                 | 0.26                 | 0.077           | 0.5              | 2.37           | 31               | <10             | 70               | <0.5             | <2               | 2.14           | <0.5             | 31               | 65               | 152              | 5.77           |
| ZZ117121                 | 0.23                 | 0.066           | 0.7              | 3.00           | 69               | <10             | 80               | <0.5             | <2               | 2.30           | <0.5             | 55               | 105              | 260              | 6.47           |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: VAULT

|                                    |
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| CERTIFICATE OF ANALYSIS WH17165202 |
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| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr  |
| Units              | ppm     | ppm       | %         | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm |
| LOR                | 10      | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         |     |
| ZZ117469           | 10      | 1         | 0.03      | 10        | 0.71      | 506       | 2         | 0.02      | 48        | 890       | 6         | 0.09      | 2         | 3         | 31        |     |
| ZZ117470           | 10      | <1        | 0.05      | 10        | 3.26      | 1085      | 1         | <0.01     | 78        | 600       | 2         | 0.03      | <2        | 10        | 21        |     |
| ZZ117471           | 10      | <1        | 0.07      | 10        | 1.91      | 650       | 2         | 0.02      | 61        | 880       | 6         | 0.06      | 2         | 7         | 32        |     |
| ZZ117472           | 10      | <1        | 0.06      | 10        | 3.51      | 1230      | 1         | <0.01     | 85        | 670       | 4         | 0.03      | <2        | 12        | 26        |     |
| ZZ117473           | 10      | 1         | 0.05      | 10        | 3.45      | 1030      | 1         | <0.01     | 92        | 610       | 3         | 0.02      | <2        | 12        | 28        |     |
| ZZ117474           | 10      | 1         | 0.05      | 10        | 3.10      | 945       | 1         | <0.01     | 85        | 670       | 7         | 0.03      | <2        | 12        | 25        |     |
| ZZ117475           | 10      | <1        | 0.06      | 10        | 2.98      | 1235      | 2         | 0.01      | 107       | 740       | 9         | 0.05      | <2        | 15        | 29        |     |
| ZZ117476           | 10      | <1        | 0.06      | 10        | 2.80      | 1030      | 3         | <0.01     | 128       | 700       | 18        | 0.05      | <2        | 12        | 25        |     |
| ZZ117477           | 10      | <1        | 0.06      | 10        | 1.94      | 1005      | 2         | 0.01      | 88        | 680       | 15        | 0.06      | 3         | 8         | 26        |     |
| ZZ117478           | 10      | <1        | 0.03      | 10        | 1.90      | 838       | 2         | <0.01     | 100       | 850       | 10        | 0.08      | 3         | 8         | 24        |     |
| ZZ117479           | 10      | 1         | 0.03      | 10        | 2.16      | 1790      | 1         | <0.01     | 90        | 680       | 8         | 0.10      | <2        | 12        | 29        |     |
| ZZ117480           | 10      | <1        | 0.05      | 10        | 4.06      | 1720      | 1         | <0.01     | 126       | 650       | 5         | 0.03      | <2        | 17        | 20        |     |
| ZZ117481           | 10      | <1        | 0.04      | 10        | 2.01      | 1325      | 1         | <0.01     | 67        | 720       | 10        | 0.06      | 2         | 9         | 28        |     |
| ZZ117482           | 10      | <1        | 0.04      | 10        | 2.11      | 1120      | 1         | <0.01     | 65        | 580       | 7         | 0.07      | <2        | 9         | 31        |     |
| ZZ117483           | <10     | <1        | 0.04      | 10        | 1.15      | 1005      | 2         | 0.02      | 57        | 790       | 20        | 0.09      | <2        | 5         | 42        |     |
| ZZ117484           | 10      | <1        | 0.05      | 10        | 1.45      | 1125      | 2         | 0.02      | 70        | 900       | 20        | 0.12      | <2        | 8         | 33        |     |
| ZZ117485           | 10      | <1        | 0.06      | 10        | 1.23      | 875       | 2         | 0.02      | 40        | 1020      | 24        | 0.08      | <2        | 6         | 32        |     |
| ZZ117486           | <10     | <1        | 0.05      | 20        | 0.85      | 997       | 2         | 0.01      | 28        | 850       | 12        | 0.08      | <2        | 5         | 51        |     |
| ZZ117487           | <10     | <1        | 0.04      | 10        | 0.88      | 747       | 3         | 0.02      | 38        | 840       | 13        | 0.10      | <2        | 4         | 47        |     |
| ZZ117488           | <10     | <1        | 0.04      | 10        | 0.92      | 735       | 3         | 0.02      | 38        | 840       | 19        | 0.10      | <2        | 5         | 48        |     |
| ZZ117489           | 10      | <1        | 0.06      | 10        | 1.06      | 992       | 4         | 0.02      | 52        | 940       | 30        | 0.09      | <2        | 10        | 50        |     |
| ZZ117490           | <10     | <1        | 0.05      | 10        | 0.97      | 676       | 1         | 0.03      | 37        | 740       | 25        | 0.08      | <2        | 5         | 42        |     |
| ZZ117491           | <10     | <1        | 0.05      | 10        | 1.23      | 807       | 2         | 0.02      | 44        | 740       | 32        | 0.08      | <2        | 7         | 32        |     |
| ZZ117492           | <10     | <1        | 0.05      | 10        | 0.79      | 595       | 1         | 0.02      | 39        | 860       | 9         | 0.08      | <2        | 4         | 33        |     |
| ZZ117493           | 10      | <1        | 0.05      | 10        | 1.78      | 942       | 1         | 0.02      | 65        | 680       | 17        | 0.08      | <2        | 8         | 36        |     |
| ZZ117494           | 10      | <1        | 0.07      | 10        | 2.05      | 1515      | 1         | 0.01      | 71        | 720       | 23        | 0.06      | <2        | 9         | 30        |     |
| ZZ117495           | <10     | 1         | 0.05      | 10        | 1.31      | 908       | 1         | 0.01      | 44        | 920       | 37        | 0.10      | <2        | 4         | 44        |     |
| ZZ117496           | <10     | 1         | 0.05      | 10        | 1.05      | 778       | 1         | 0.01      | 21        | 740       | 16        | 0.08      | <2        | 3         | 38        |     |
| ZZ117497           | <10     | 1         | 0.04      | 10        | 1.21      | 877       | 1         | 0.01      | 36        | 880       | 12        | 0.10      | <2        | 4         | 43        |     |
| ZZ117498           | 10      | 1         | 0.05      | 10        | 1.85      | 1050      | 1         | 0.01      | 47        | 910       | 17        | 0.05      | <2        | 6         | 34        |     |
| ZZ117499           | 10      | 1         | 0.07      | <10       | 2.25      | 1000      | 1         | <0.01     | 38        | 1150      | 8         | 0.17      | <2        | 6         | 36        |     |
| ZZ117500           | <10     | 1         | 0.03      | 10        | 0.90      | 812       | 2         | 0.01      | 36        | 750       | 12        | 0.07      | <2        | 5         | 30        |     |
| ZZ117114           | 10      | 1         | 0.06      | 10        | 2.34      | 1270      | 1         | 0.03      | 54        | 810       | 11        | 0.08      | <2        | 14        | 90        |     |
| ZZ117115           | <10     | 1         | 0.04      | 10        | 1.26      | 971       | 2         | 0.02      | 48        | 890       | 11        | 0.13      | <2        | 5         | 57        |     |
| ZZ117116           | 10      | <1        | 0.10      | 10        | 1.63      | 1105      | 3         | 0.01      | 42        | 900       | 14        | 0.05      | <2        | 7         | 59        |     |
| ZZ117117           | <10     | 1         | 0.10      | 10        | 1.26      | 655       | 1         | 0.01      | 32        | 660       | 11        | 0.06      | <2        | 7         | 49        |     |
| ZZ117118           | 10      | <1        | 0.08      | 10        | 2.79      | 1150      | 2         | 0.01      | 97        | 630       | 37        | 0.06      | <2        | 13        | 55        |     |
| ZZ117119           | 10      | <1        | 0.05      | 10        | 2.39      | 678       | 5         | 0.01      | 56        | 760       | 23        | 0.16      | <2        | 5         | 100       |     |
| ZZ117120           | 10      | <1        | 0.04      | 10        | 2.00      | 1035      | 3         | 0.01      | 57        | 900       | 26        | 0.15      | <2        | 7         | 66        |     |
| ZZ117121           | 10      | 1         | 0.06      | 10        | 2.23      | 1120      | 4         | 0.01      | 76        | 760       | 34        | 0.09      | <2        | 9         | 53        |     |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    |                          | Th        | Ti        | Tl        | U         | V         | W         | Zn  |
|                    |                          | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm |
|                    |                          | 20        | 0.01      | 10        | 10        | 1         | 10        | 2   |
| ZZ117469           |                          | <20       | 0.05      | <10       | <10       | 58        | <10       | 63  |
| ZZ117470           |                          | <20       | 0.34      | <10       | <10       | 154       | <10       | 95  |
| ZZ117471           |                          | <20       | 0.18      | <10       | <10       | 103       | <10       | 105 |
| ZZ117472           |                          | <20       | 0.30      | <10       | <10       | 159       | <10       | 109 |
| ZZ117473           |                          | <20       | 0.39      | <10       | <10       | 177       | <10       | 108 |
| ZZ117474           |                          | <20       | 0.34      | <10       | <10       | 163       | <10       | 115 |
| ZZ117475           |                          | <20       | 0.19      | <10       | <10       | 166       | <10       | 132 |
| ZZ117476           |                          | <20       | 0.04      | <10       | <10       | 92        | <10       | 178 |
| ZZ117477           |                          | <20       | 0.04      | <10       | <10       | 71        | <10       | 144 |
| ZZ117478           |                          | <20       | 0.02      | <10       | <10       | 71        | <10       | 119 |
| ZZ117479           |                          | <20       | 0.03      | <10       | <10       | 101       | <10       | 79  |
| ZZ117480           |                          | <20       | 0.07      | 10        | <10       | 159       | <10       | 82  |
| ZZ117481           |                          | <20       | 0.03      | <10       | <10       | 91        | <10       | 102 |
| ZZ117482           |                          | <20       | 0.04      | <10       | <10       | 96        | <10       | 77  |
| ZZ117483           |                          | <20       | 0.02      | <10       | <10       | 56        | <10       | 142 |
| ZZ117484           |                          | <20       | 0.02      | <10       | <10       | 65        | <10       | 162 |
| ZZ117485           |                          | <20       | 0.01      | <10       | <10       | 51        | <10       | 165 |
| ZZ117486           |                          | <20       | 0.02      | <10       | <10       | 45        | <10       | 78  |
| ZZ117487           |                          | <20       | 0.03      | <10       | <10       | 49        | <10       | 91  |
| ZZ117488           |                          | <20       | 0.02      | <10       | <10       | 42        | <10       | 129 |
| ZZ117489           |                          | <20       | 0.02      | <10       | <10       | 61        | <10       | 136 |
| ZZ117490           |                          | <20       | 0.03      | <10       | <10       | 46        | <10       | 109 |
| ZZ117491           |                          | <20       | 0.02      | <10       | <10       | 51        | <10       | 124 |
| ZZ117492           |                          | <20       | 0.04      | <10       | <10       | 51        | <10       | 72  |
| ZZ117493           |                          | <20       | 0.03      | <10       | <10       | 73        | <10       | 102 |
| ZZ117494           |                          | <20       | 0.04      | <10       | <10       | 91        | <10       | 141 |
| ZZ117495           |                          | <20       | 0.03      | <10       | <10       | 55        | <10       | 105 |
| ZZ117496           |                          | <20       | 0.02      | <10       | <10       | 38        | <10       | 68  |
| ZZ117497           |                          | <20       | 0.02      | <10       | <10       | 49        | <10       | 95  |
| ZZ117498           |                          | <20       | 0.02      | <10       | <10       | 53        | <10       | 138 |
| ZZ117499           |                          | <20       | 0.05      | <10       | <10       | 66        | <10       | 166 |
| ZZ117500           |                          | <20       | 0.02      | <10       | <10       | 47        | <10       | 90  |
| ZZ117114           |                          | <20       | 0.05      | <10       | <10       | 99        | <10       | 98  |
| ZZ117115           |                          | <20       | 0.03      | <10       | <10       | 56        | <10       | 93  |
| ZZ117116           |                          | <20       | 0.01      | <10       | <10       | 56        | <10       | 109 |
| ZZ117117           |                          | <20       | 0.01      | <10       | <10       | 54        | <10       | 74  |
| ZZ117118           |                          | <20       | 0.02      | <10       | <10       | 94        | <10       | 179 |
| ZZ117119           |                          | <20       | 0.02      | <10       | <10       | 48        | <10       | 121 |
| ZZ117120           |                          | <20       | 0.02      | <10       | <10       | 61        | <10       | 119 |
| ZZ117121           |                          | <20       | 0.05      | <10       | <10       | 85        | <10       | 264 |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 17- SEP- 2017  
 Account: MTT

Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method  | WEI- 21   | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Au       | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        |
| Units              |         | kg        | ppm      | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         |
| LOR                |         | 0.02      | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| ZZ117122           |         | 0.23      | 0.119    | 1.0       | 3.67      | 37        | <10       | 40        | <0.5      | <2        | 1.94      | <0.5      | 58        | 281       | 318       | 6.98      |
| ZZ117123           |         | 0.22      | 0.196    | 0.7       | 2.22      | 43        | <10       | 120       | <0.5      | <2        | 1.06      | <0.5      | 42        | 73        | 252       | 6.38      |
| ZZ117124           |         | 0.14      | 0.116    | <0.2      | 1.92      | 10        | <10       | 50        | <0.5      | <2        | 0.71      | <0.5      | 24        | 74        | 84        | 3.43      |
| ZZ117125           |         | 0.28      | 0.119    | 0.2       | 1.78      | 5         | <10       | 70        | <0.5      | <2        | 1.09      | <0.5      | 31        | 47        | 132       | 3.76      |
| ZZ117126           |         | 0.20      | 0.035    | <0.2      | 1.83      | 8         | <10       | 60        | <0.5      | <2        | 1.08      | <0.5      | 23        | 42        | 101       | 3.69      |
| ZZ117127           |         | 0.24      | 0.046    | 0.3       | 2.29      | 40        | <10       | 80        | <0.5      | <2        | 1.06      | <0.5      | 31        | 75        | 129       | 4.81      |
| ZZ117128           |         | 0.19      | 0.061    | 0.2       | 2.10      | 17        | <10       | 40        | <0.5      | <2        | 0.61      | <0.5      | 27        | 68        | 118       | 3.98      |
| ZZ117129           |         | 0.22      | 0.094    | 0.5       | 2.21      | 24        | <10       | 90        | <0.5      | <2        | 1.18      | 0.5       | 37        | 66        | 207       | 4.64      |
| ZZ117130           |         | 0.23      | 0.178    | 0.5       | 2.45      | 6         | <10       | 110       | <0.5      | <2        | 1.52      | <0.5      | 30        | 71        | 170       | 4.44      |
| ZZ117131           |         | 0.21      | 0.044    | <0.2      | 1.98      | 8         | <10       | 50        | <0.5      | <2        | 1.29      | <0.5      | 24        | 34        | 79        | 3.72      |
| ZZ117132           |         | 0.32      | 0.068    | 0.2       | 2.07      | 9         | <10       | 70        | <0.5      | <2        | 0.91      | <0.5      | 24        | 45        | 117       | 3.94      |
| ZZ117133           |         | 0.25      | 0.046    | <0.2      | 1.52      | 11        | <10       | 90        | <0.5      | <2        | 0.70      | <0.5      | 20        | 34        | 51        | 3.23      |
| ZZ117134           |         | 0.21      | 0.067    | 0.2       | 1.89      | 7         | <10       | 50        | <0.5      | <2        | 0.74      | <0.5      | 21        | 34        | 84        | 3.57      |
| ZZ117135           |         | 0.17      | 0.261    | 0.6       | 2.04      | 27        | <10       | 80        | <0.5      | <2        | 0.97      | <0.5      | 27        | 56        | 131       | 3.85      |
| ZZ117136           |         | 0.30      | 0.053    | 0.2       | 1.70      | 10        | <10       | 80        | <0.5      | <2        | 0.86      | <0.5      | 25        | 38        | 115       | 4.32      |
| ZZ117137           |         | 0.16      | 0.109    | 0.6       | 1.90      | 111       | <10       | 100       | <0.5      | <2        | 1.62      | <0.5      | 24        | 48        | 134       | 4.29      |
| ZZ117138           |         | 0.12      | 0.015    | <0.2      | 0.97      | 8         | <10       | 80        | <0.5      | <2        | 0.73      | <0.5      | 8         | 16        | 25        | 1.68      |
| ZZ117139           |         | 0.37      | 0.161    | 0.5       | 2.16      | 15        | <10       | 60        | <0.5      | <2        | 1.07      | <0.5      | 32        | 53        | 101       | 4.96      |
| ZZ117140           |         | 0.25      | 0.070    | 0.5       | 2.65      | 8         | <10       | 210       | <0.5      | <2        | 1.45      | <0.5      | 42        | 39        | 278       | 6.03      |
| ZZ117141           |         | 0.25      | 0.320    | 0.2       | 1.57      | 9         | <10       | 110       | <0.5      | <2        | 1.10      | <0.5      | 24        | 33        | 116       | 3.99      |
| ZZ117142           |         | 0.21      | 0.064    | 0.3       | 1.74      | 10        | <10       | 80        | <0.5      | <2        | 0.91      | <0.5      | 25        | 38        | 133       | 4.07      |
| ZZ117143           |         | 0.25      | 0.870    | 0.2       | 1.44      | 23        | <10       | 90        | <0.5      | <2        | 0.64      | <0.5      | 23        | 30        | 98        | 4.09      |
| ZZ117144           |         | 0.19      | 0.147    | 0.2       | 1.51      | 11        | <10       | 100       | <0.5      | <2        | 0.75      | <0.5      | 21        | 35        | 107       | 3.62      |
| ZZ117145           |         | 0.27      | 0.344    | 0.4       | 1.23      | 13        | <10       | 110       | <0.5      | <2        | 0.95      | <0.5      | 22        | 24        | 115       | 3.59      |
| ZZ117146           |         | 0.29      | 0.080    | 0.5       | 1.60      | 22        | <10       | 160       | <0.5      | <2        | 2.00      | 0.7       | 47        | 36        | 335       | 5.09      |
| ZZ117147           |         | 0.17      | 0.041    | 0.3       | 1.65      | 16        | <10       | 90        | <0.5      | <2        | 0.97      | <0.5      | 19        | 36        | 99        | 3.68      |
| ZZ117148           |         | 0.25      | 0.937    | 0.4       | 1.42      | 101       | <10       | 80        | <0.5      | 2         | 0.84      | 1.2       | 28        | 35        | 134       | 4.68      |
| ZZ117149           |         | 0.31      | 0.045    | 0.3       | 1.68      | 20        | <10       | 60        | <0.5      | <2        | 0.76      | <0.5      | 23        | 33        | 94        | 4.54      |
| ZZ117150           |         | 0.20      | 0.026    | 0.2       | 1.07      | 12        | <10       | 80        | <0.5      | 2         | 1.67      | <0.5      | 11        | 19        | 60        | 2.18      |
| ZZ117151           |         | 0.20      | 0.033    | 0.2       | 1.54      | 21        | <10       | 100       | <0.5      | <2        | 0.72      | <0.5      | 18        | 32        | 67        | 4.12      |
| ZZ117152           |         | 0.21      | 0.044    | 0.3       | 1.80      | 23        | <10       | 70        | <0.5      | <2        | 0.49      | <0.5      | 22        | 41        | 92        | 5.06      |
| ZZ117153           |         | 0.30      | 0.051    | 0.3       | 2.07      | 21        | <10       | 70        | <0.5      | <2        | 0.55      | <0.5      | 24        | 41        | 110       | 4.82      |
| ZZ117154           |         | 0.20      | 0.031    | <0.2      | 1.78      | 13        | <10       | 50        | <0.5      | <2        | 0.71      | <0.5      | 21        | 33        | 83        | 4.47      |
| ZZ117155           |         | 0.29      | 0.047    | 0.2       | 1.71      | 13        | <10       | 70        | <0.5      | <2        | 1.15      | <0.5      | 22        | 30        | 143       | 4.15      |
| ZZ117156           |         | 0.30      | 0.028    | <0.2      | 1.57      | 8         | <10       | 70        | <0.5      | <2        | 0.78      | <0.5      | 18        | 47        | 83        | 3.66      |
| ZZ117157           |         | 0.21      | 0.039    | <0.2      | 1.46      | 12        | <10       | 70        | <0.5      | <2        | 1.11      | <0.5      | 20        | 22        | 83        | 3.38      |
| ZZ117158           |         | 0.25      | 0.031    | <0.2      | 1.84      | 12        | <10       | 60        | <0.5      | <2        | 0.93      | <0.5      | 21        | 35        | 102       | 4.54      |
| ZZ117159           |         | 0.21      | 0.025    | <0.2      | 1.74      | 12        | <10       | 50        | <0.5      | <2        | 0.95      | <0.5      | 18        | 40        | 72        | 3.96      |
| ZZ117161           |         | 0.18      | 0.011    | <0.2      | 1.28      | 12        | <10       | 80        | <0.5      | <2        | 0.76      | <0.5      | 16        | 27        | 55        | 2.32      |
| ZZ117162           |         | 0.16      | 0.032    | 0.2       | 1.91      | 16        | 10        | 60        | <0.5      | <2        | 0.97      | <0.5      | 24        | 72        | 144       | 4.31      |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |        |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|                    |                          | Ga ppm    | Hg ppm    | K %       | La ppm    | Mg %      | Mn ppm    | Mo ppm    | Na %      | Ni ppm    | P ppm     | Pb ppm    | S %       | Sb ppm    | Sc ppm    | Sr ppm |
|                    |                          | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1      |
| ZZ117122           |                          | 10        | 1         | 0.05      | <10       | 3.74      | 1225      | 6         | 0.01      | 178       | 650       | 37        | 0.10      | <2        | 10        | 63     |
| ZZ117123           |                          | 10        | <1        | 0.11      | 10        | 1.72      | 1645      | 22        | 0.01      | 64        | 860       | 20        | 0.23      | <2        | 7         | 60     |
| ZZ117124           |                          | <10       | <1        | 0.16      | <10       | 1.74      | 711       | 2         | 0.01      | 47        | 790       | 3         | 0.04      | <2        | 4         | 41     |
| ZZ117125           |                          | <10       | <1        | 0.10      | 10        | 1.52      | 857       | 5         | 0.01      | 34        | 860       | 9         | 0.07      | <2        | 4         | 45     |
| ZZ117126           |                          | <10       | <1        | 0.08      | 10        | 1.45      | 869       | 1         | 0.01      | 33        | 920       | 6         | 0.07      | <2        | 4         | 50     |
| ZZ117127           |                          | 10        | <1        | 0.06      | 10        | 1.75      | 1265      | 2         | 0.01      | 50        | 850       | 13        | 0.07      | <2        | 8         | 46     |
| ZZ117128           |                          | <10       | 1         | 0.06      | <10       | 1.74      | 887       | 2         | 0.01      | 42        | 470       | 10        | 0.04      | <2        | 4         | 29     |
| ZZ117129           |                          | <10       | 1         | 0.07      | 10        | 1.93      | 1265      | 2         | 0.01      | 47        | 710       | 20        | 0.08      | <2        | 5         | 39     |
| ZZ117130           |                          | 10        | <1        | 0.08      | <10       | 2.19      | 1030      | 2         | 0.01      | 41        | 940       | 8         | 0.08      | <2        | 5         | 56     |
| ZZ117131           |                          | <10       | 1         | 0.06      | 10        | 1.53      | 1170      | 1         | 0.01      | 26        | 1410      | 5         | 0.06      | <2        | 3         | 41     |
| ZZ117132           |                          | <10       | 1         | 0.06      | 10        | 1.43      | 1185      | 1         | 0.01      | 35        | 870       | 6         | 0.06      | <2        | 5         | 38     |
| ZZ117133           |                          | <10       | 1         | 0.05      | 10        | 0.96      | 657       | 1         | 0.02      | 30        | 880       | 6         | 0.05      | <2        | 4         | 36     |
| ZZ117134           |                          | <10       | 1         | 0.11      | 10        | 1.48      | 758       | 1         | 0.01      | 30        | 1090      | 2         | 0.03      | <2        | 4         | 36     |
| ZZ117135           |                          | <10       | <1        | 0.06      | 10        | 1.44      | 987       | 1         | 0.02      | 42        | 840       | 10        | 0.06      | <2        | 5         | 40     |
| ZZ117136           |                          | <10       | 1         | 0.07      | <10       | 1.36      | 871       | 2         | 0.01      | 31        | 1030      | 9         | 0.12      | <2        | 4         | 38     |
| ZZ117137           |                          | 10        | 1         | 0.06      | 10        | 1.26      | 1145      | 2         | 0.01      | 36        | 870       | 19        | 0.10      | <2        | 6         | 60     |
| ZZ117138           |                          | <10       | 1         | 0.05      | 10        | 0.36      | 291       | 1         | 0.03      | 14        | 770       | 5         | 0.09      | <2        | 1         | 31     |
| ZZ117139           |                          | <10       | 1         | 0.08      | 10        | 1.81      | 932       | 1         | <0.01     | 32        | 1010      | 15        | 0.04      | <2        | 4         | 35     |
| ZZ117140           |                          | 10        | <1        | 0.28      | 10        | 2.13      | 1120      | 2         | 0.01      | 35        | 810       | 20        | 0.08      | <2        | 8         | 67     |
| ZZ117141           |                          | <10       | 1         | 0.09      | 10        | 1.11      | 975       | 2         | 0.01      | 29        | 950       | 7         | 0.07      | <2        | 6         | 73     |
| ZZ117142           |                          | <10       | 1         | 0.12      | 10        | 1.34      | 825       | 4         | 0.01      | 32        | 880       | 11        | 0.06      | <2        | 6         | 42     |
| ZZ117143           |                          | <10       | 1         | 0.13      | 10        | 1.01      | 921       | 8         | 0.01      | 29        | 790       | 7         | 0.08      | <2        | 5         | 39     |
| ZZ117144           |                          | <10       | <1        | 0.08      | 10        | 0.98      | 633       | 5         | 0.02      | 31        | 760       | 9         | 0.08      | <2        | 5         | 43     |
| ZZ117145           |                          | <10       | <1        | 0.12      | 10        | 0.76      | 985       | 8         | 0.03      | 27        | 1010      | 14        | 0.13      | 2         | 4         | 43     |
| ZZ117146           |                          | <10       | <1        | 0.23      | 10        | 1.38      | 1470      | 18        | 0.03      | 42        | 850       | 23        | 0.29      | <2        | 7         | 69     |
| ZZ117147           |                          | <10       | <1        | 0.07      | 10        | 1.02      | 774       | 2         | 0.02      | 28        | 740       | 10        | 0.07      | 2         | 6         | 44     |
| ZZ117148           |                          | <10       | <1        | 0.07      | 10        | 1.07      | 1110      | 14        | 0.01      | 32        | 760       | 21        | 0.15      | <2        | 7         | 41     |
| ZZ117149           |                          | <10       | <1        | 0.07      | 10        | 1.19      | 973       | 2         | 0.01      | 27        | 1060      | 10        | 0.05      | <2        | 9         | 47     |
| ZZ117150           |                          | <10       | <1        | 0.03      | 10        | 0.56      | 481       | 1         | 0.02      | 16        | 790       | 5         | 0.10      | 2         | 2         | 61     |
| ZZ117151           |                          | <10       | 1         | 0.04      | 10        | 0.88      | 743       | 2         | 0.02      | 25        | 630       | 15        | 0.08      | <2        | 6         | 34     |
| ZZ117152           |                          | 10        | <1        | 0.06      | 10        | 1.22      | 897       | 3         | 0.01      | 37        | 930       | 17        | 0.08      | <2        | 7         | 22     |
| ZZ117153           |                          | 10        | <1        | 0.04      | 10        | 1.35      | 792       | 2         | <0.01     | 34        | 920       | 16        | 0.04      | 2         | 6         | 21     |
| ZZ117154           |                          | <10       | <1        | 0.05      | 10        | 1.26      | 868       | 2         | <0.01     | 22        | 1050      | 10        | 0.09      | <2        | 5         | 25     |
| ZZ117155           |                          | <10       | <1        | 0.05      | 10        | 1.15      | 963       | 1         | 0.01      | 26        | 910       | 15        | 0.12      | <2        | 5         | 39     |
| ZZ117156           |                          | <10       | <1        | 0.06      | 10        | 1.13      | 901       | 1         | 0.01      | 28        | 750       | 14        | 0.06      | <2        | 6         | 29     |
| ZZ117157           |                          | <10       | <1        | 0.05      | 10        | 0.94      | 901       | 2         | 0.01      | 20        | 1050      | 11        | 0.11      | <2        | 3         | 43     |
| ZZ117158           |                          | 10        | <1        | 0.05      | 10        | 1.27      | 883       | 1         | 0.01      | 26        | 790       | 11        | 0.07      | <2        | 6         | 38     |
| ZZ117159           |                          | <10       | <1        | 0.05      | 10        | 1.10      | 655       | 1         | 0.01      | 29        | 740       | 9         | 0.06      | <2        | 6         | 26     |
| ZZ117161           |                          | <10       | <1        | 0.06      | 10        | 0.56      | 495       | 2         | 0.02      | 23        | 740       | 5         | 0.08      | 2         | 3         | 31     |
| ZZ117162           |                          | <10       | <1        | 0.07      | 10        | 1.59      | 684       | 2         | 0.01      | 50        | 910       | 11        | 0.06      | <2        | 6         | 78     |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Project: VAULT

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17165202 |
|------------------------------------|

| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte | Th        | Ti        | Ti        | U         | V         | W         |     |
|                    | Units   | ppm       | %         | ppm       | ppm       | ppm       | ppm       |     |
| LOR                |         | 20        | 0.01      | 10        | 10        | 1         | 10        |     |
| ZZ117122           |         | <20       | 0.08      | <10       | <10       | 108       | <10       | 137 |
| ZZ117123           |         | <20       | 0.04      | <10       | <10       | 65        | <10       | 128 |
| ZZ117124           |         | <20       | 0.07      | <10       | <10       | 66        | <10       | 60  |
| ZZ117125           |         | <20       | 0.05      | <10       | <10       | 61        | <10       | 68  |
| ZZ117126           |         | <20       | 0.05      | <10       | <10       | 59        | <10       | 72  |
| ZZ117127           |         | <20       | 0.03      | <10       | <10       | 71        | <10       | 96  |
| ZZ117128           |         | <20       | 0.05      | <10       | <10       | 54        | <10       | 76  |
| ZZ117129           |         | <20       | 0.04      | <10       | <10       | 63        | <10       | 107 |
| ZZ117130           |         | <20       | 0.03      | <10       | <10       | 61        | <10       | 73  |
| ZZ117131           |         | <20       | 0.02      | <10       | <10       | 41        | <10       | 72  |
| ZZ117132           |         | <20       | 0.04      | <10       | <10       | 64        | <10       | 77  |
| ZZ117133           |         | <20       | 0.06      | <10       | <10       | 58        | <10       | 82  |
| ZZ117134           |         | <20       | 0.06      | <10       | <10       | 55        | <10       | 65  |
| ZZ117135           |         | <20       | 0.04      | <10       | <10       | 58        | <10       | 74  |
| ZZ117136           |         | <20       | 0.04      | <10       | <10       | 50        | <10       | 73  |
| ZZ117137           |         | <20       | 0.03      | <10       | <10       | 70        | <10       | 106 |
| ZZ117138           |         | <20       | 0.03      | <10       | <10       | 31        | <10       | 38  |
| ZZ117139           |         | <20       | 0.03      | <10       | <10       | 44        | <10       | 97  |
| ZZ117140           |         | <20       | 0.07      | <10       | <10       | 101       | <10       | 113 |
| ZZ117141           |         | <20       | 0.03      | <10       | <10       | 58        | <10       | 63  |
| ZZ117142           |         | <20       | 0.05      | <10       | <10       | 63        | <10       | 73  |
| ZZ117143           |         | <20       | 0.04      | <10       | <10       | 54        | <10       | 64  |
| ZZ117144           |         | <20       | 0.03      | <10       | <10       | 56        | <10       | 60  |
| ZZ117145           |         | <20       | 0.03      | <10       | <10       | 42        | <10       | 75  |
| ZZ117146           |         | <20       | 0.04      | <10       | <10       | 69        | <10       | 123 |
| ZZ117147           |         | <20       | 0.02      | <10       | <10       | 55        | <10       | 77  |
| ZZ117148           |         | <20       | 0.02      | <10       | <10       | 52        | <10       | 172 |
| ZZ117149           |         | <20       | 0.01      | <10       | <10       | 55        | <10       | 89  |
| ZZ117150           |         | <20       | 0.02      | <10       | <10       | 33        | <10       | 60  |
| ZZ117151           |         | <20       | 0.02      | <10       | <10       | 56        | <10       | 116 |
| ZZ117152           |         | <20       | 0.02      | <10       | <10       | 55        | <10       | 129 |
| ZZ117153           |         | <20       | 0.02      | <10       | <10       | 54        | <10       | 95  |
| ZZ117154           |         | <20       | 0.01      | <10       | <10       | 45        | <10       | 108 |
| ZZ117155           |         | <20       | 0.02      | <10       | <10       | 54        | <10       | 98  |
| ZZ117156           |         | <20       | 0.01      | <10       | <10       | 45        | <10       | 83  |
| ZZ117157           |         | <20       | 0.02      | <10       | <10       | 41        | <10       | 81  |
| ZZ117158           |         | <20       | 0.01      | <10       | <10       | 61        | <10       | 88  |
| ZZ117159           |         | <20       | 0.02      | <10       | <10       | 51        | <10       | 75  |
| ZZ117161           |         | <20       | 0.05      | <10       | <10       | 45        | <10       | 49  |
| ZZ117162           |         | <20       | 0.03      | <10       | <10       | 60        | <10       | 114 |



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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 VANCOUVER BC V6B 1L8

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Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| Sample Description | Method Analyte Units LOR | WEI- 21      | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|--------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Recvd Wt. kg | Au ppm   | Ag ppm    | Al %      | As ppm    | B ppm     | Ba ppm    | Be ppm    | Bi ppm    | Ca %      | Cd ppm    | Co ppm    | Cr ppm    | Cu ppm    | Fe %      |
|                    |                          | 0.02         | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| ZZ117163           |                          | 0.35         | 0.024    | <0.2      | 2.00      | 9         | <10       | 60        | <0.5      | <2        | 0.46      | <0.5      | 22        | 55        | 92        | 4.51      |
| ZZ117164           |                          | 0.11         | 0.010    | <0.2      | 1.25      | 8         | <10       | 70        | <0.5      | <2        | 1.41      | <0.5      | 11        | 30        | 57        | 2.62      |
| ZZ117165           |                          | 0.12         | 0.009    | <0.2      | 1.65      | 13        | <10       | 90        | <0.5      | <2        | 0.70      | <0.5      | 18        | 53        | 45        | 3.29      |
| ZZ117166           |                          | 0.27         | 0.020    | 0.2       | 1.66      | 24        | <10       | 50        | <0.5      | <2        | 1.14      | <0.5      | 22        | 66        | 89        | 4.57      |
| ZZ117167           |                          | 0.27         | 0.055    | <0.2      | 1.61      | 24        | <10       | 90        | <0.5      | <2        | 0.69      | <0.5      | 17        | 30        | 101       | 4.33      |
| ZZ117168           |                          | 0.15         | 0.028    | <0.2      | 1.49      | 16        | <10       | 110       | <0.5      | <2        | 0.92      | <0.5      | 15        | 40        | 91        | 3.10      |
| ZZ117169           |                          | 0.32         | 0.032    | 0.2       | 1.62      | 21        | <10       | 100       | <0.5      | <2        | 1.01      | <0.5      | 16        | 40        | 75        | 3.67      |
| ZZ117170           |                          | 0.23         | 0.018    | <0.2      | 1.55      | 13        | <10       | 120       | <0.5      | 2         | 0.58      | <0.5      | 16        | 36        | 94        | 3.59      |
| ZZ117171           |                          | 0.33         | 0.026    | <0.2      | 1.60      | 21        | <10       | 110       | <0.5      | <2        | 0.83      | <0.5      | 18        | 31        | 77        | 3.81      |
| ZZ117172           |                          | 0.16         | 0.014    | <0.2      | 1.56      | 13        | <10       | 140       | <0.5      | <2        | 1.07      | <0.5      | 13        | 27        | 69        | 3.31      |
| ZZ117173           |                          | 0.18         | 0.015    | <0.2      | 1.11      | 8         | <10       | 90        | <0.5      | <2        | 1.59      | <0.5      | 9         | 23        | 46        | 1.90      |
| ZZ117174           |                          | 0.31         | 0.026    | 0.3       | 1.64      | 30        | <10       | 110       | <0.5      | <2        | 0.52      | <0.5      | 21        | 42        | 119       | 4.55      |
| ZZ117175           |                          | 0.21         | 0.077    | 0.3       | 1.67      | 42        | <10       | 70        | <0.5      | <2        | 0.54      | 0.5       | 19        | 41        | 84        | 4.49      |
| ZZ117176           |                          | 0.39         | 0.991    | 0.2       | 2.53      | 89        | <10       | 50        | <0.5      | <2        | 1.69      | <0.5      | 37        | 381       | 97        | 5.64      |
| ZZ117177           |                          | 0.30         | 0.016    | <0.2      | 2.63      | 66        | <10       | 40        | <0.5      | <2        | 0.56      | <0.5      | 32        | 266       | 90        | 5.68      |
| ZZ117178           |                          | 0.28         | 0.010    | <0.2      | 2.74      | 18        | <10       | 120       | <0.5      | <2        | 0.70      | <0.5      | 31        | 77        | 100       | 5.22      |
| ZZ117179           |                          | 0.24         | 0.007    | <0.2      | 2.21      | 20        | <10       | 130       | <0.5      | <2        | 0.43      | <0.5      | 19        | 56        | 46        | 4.98      |
| ZZ117180           |                          | 0.23         | 0.005    | <0.2      | 2.65      | 25        | <10       | 130       | <0.5      | <2        | 0.46      | <0.5      | 27        | 73        | 55        | 5.26      |
| ZZ117181           |                          | 0.16         | 0.008    | <0.2      | 2.11      | 18        | <10       | 110       | <0.5      | <2        | 0.44      | <0.5      | 20        | 65        | 43        | 4.74      |
| ZZ117182           |                          | 0.12         | 0.039    | <0.2      | 1.71      | 15        | <10       | 80        | <0.5      | 2         | 0.47      | <0.5      | 14        | 36        | 58        | 2.53      |
| ZZ117183           |                          | 0.25         | 0.009    | <0.2      | 2.53      | 22        | <10       | 120       | <0.5      | <2        | 0.68      | <0.5      | 29        | 84        | 72        | 4.87      |
| ZZ117184           |                          | 0.17         | 0.006    | <0.2      | 2.46      | 22        | <10       | 140       | <0.5      | <2        | 0.57      | <0.5      | 26        | 73        | 52        | 4.87      |
| ZZ117185           |                          | 0.31         | 0.014    | <0.2      | 3.69      | 18        | <10       | 310       | <0.5      | <2        | 0.90      | 0.5       | 49        | 123       | 105       | 6.79      |
| ZZ117186           |                          | 0.34         | 0.015    | <0.2      | 3.16      | 13        | 10        | 150       | <0.5      | <2        | 0.96      | <0.5      | 54        | 104       | 169       | 6.04      |
| ZZ117187           |                          | 0.33         | 0.017    | <0.2      | 3.50      | 14        | <10       | 50        | <0.5      | <2        | 0.81      | <0.5      | 47        | 174       | 229       | 5.95      |
| ZZ117188           |                          | 0.38         | 0.015    | <0.2      | 3.52      | 23        | 10        | 40        | <0.5      | <2        | 1.13      | <0.5      | 43        | 109       | 203       | 6.01      |
| ZZ117189           |                          | 0.28         | 0.015    | <0.2      | 2.45      | 13        | 10        | 40        | <0.5      | <2        | 0.81      | <0.5      | 31        | 86        | 92        | 4.35      |
| ZZ117190           |                          | 0.26         | 0.019    | <0.2      | 2.85      | 9         | 10        | 110       | <0.5      | <2        | 0.92      | <0.5      | 35        | 88        | 111       | 5.64      |
| ZZ117191           |                          | 0.34         | 0.015    | 0.2       | 3.52      | 8         | 10        | 70        | <0.5      | <2        | 0.98      | <0.5      | 47        | 111       | 427       | 7.45      |
| ZZ117192           |                          | 0.39         | 0.013    | <0.2      | 3.41      | 4         | 10        | 40        | <0.5      | <2        | 1.32      | <0.5      | 53        | 111       | 365       | 6.80      |
| ZZ117193           |                          | 0.38         | 0.053    | <0.2      | 3.31      | 18        | 10        | 160       | <0.5      | <2        | 1.00      | <0.5      | 49        | 122       | 302       | 6.80      |
| ZZ117194           |                          | 0.37         | 0.032    | 0.2       | 2.86      | 11        | 10        | 110       | <0.5      | <2        | 1.05      | <0.5      | 46        | 111       | 506       | 5.98      |
| ZZ117195           |                          | 0.32         | 0.022    | <0.2      | 3.97      | 31        | 10        | 130       | <0.5      | <2        | 0.61      | <0.5      | 60        | 156       | 251       | 8.65      |
| ZZ117196           |                          | 0.17         | 0.013    | <0.2      | 3.15      | 29        | 10        | 60        | <0.5      | <2        | 0.77      | <0.5      | 38        | 107       | 162       | 5.54      |
| ZZ117197           |                          | 0.34         | 0.025    | <0.2      | 3.63      | 18        | 10        | 60        | <0.5      | <2        | 0.80      | <0.5      | 41        | 118       | 114       | 5.90      |
| ZZ117198           |                          | 0.38         | 0.018    | <0.2      | 3.35      | 10        | 40        | 140       | <0.5      | <2        | 0.86      | <0.5      | 38        | 96        | 76        | 5.83      |
| ZZ117199           |                          | 0.26         | 0.014    | <0.2      | 3.52      | 9         | 10        | 110       | <0.5      | <2        | 0.85      | <0.5      | 38        | 128       | 109       | 6.01      |
| ZZ117200           |                          | 0.30         | 0.311    | <0.2      | 3.32      | 17        | 10        | 110       | <0.5      | <2        | 1.02      | <0.5      | 36        | 105       | 166       | 6.19      |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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|                                    |
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| CERTIFICATE OF ANALYSIS WH17165202 |
|------------------------------------|

| Sample Description | Method       | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte      | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr  |
|                    | Units<br>LOR | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm |
|                    |              | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1   |
| ZZ117163           |              | 10        | <1        | 0.05      | 10        | 1.40      | 1085      | 1         | 0.01      | 34        | 650       | 10        | 0.02      | <2        | 7         | 22  |
| ZZ117164           |              | <10       | <1        | 0.06      | 10        | 0.62      | 549       | 1         | 0.02      | 22        | 830       | 5         | 0.09      | 2         | 2         | 45  |
| ZZ117165           |              | 10        | <1        | 0.05      | 10        | 0.97      | 583       | 2         | 0.02      | 33        | 830       | 6         | 0.07      | 2         | 3         | 34  |
| ZZ117166           |              | <10       | <1        | 0.06      | 10        | 1.33      | 561       | 2         | 0.01      | 47        | 950       | 10        | 0.09      | <2        | 6         | 59  |
| ZZ117167           |              | <10       | 1         | 0.03      | 10        | 0.90      | 765       | 2         | 0.01      | 29        | 640       | 8         | 0.06      | <2        | 6         | 26  |
| ZZ117168           |              | <10       | <1        | 0.05      | 10        | 0.76      | 704       | 1         | 0.02      | 32        | 860       | 8         | 0.07      | <2        | 4         | 35  |
| ZZ117169           |              | <10       | <1        | 0.04      | 10        | 0.83      | 637       | 2         | 0.01      | 34        | 870       | 12        | 0.07      | <2        | 4         | 36  |
| ZZ117170           |              | <10       | <1        | 0.05      | 10        | 0.85      | 894       | 1         | 0.01      | 29        | 1020      | 9         | 0.05      | <2        | 5         | 28  |
| ZZ117171           |              | <10       | <1        | 0.04      | 10        | 0.85      | 777       | 2         | 0.01      | 31        | 880       | 12        | 0.08      | <2        | 5         | 35  |
| ZZ117172           |              | <10       | <1        | 0.04      | 10        | 0.71      | 662       | 1         | 0.02      | 25        | 1060      | 8         | 0.10      | <2        | 4         | 43  |
| ZZ117173           |              | <10       | <1        | 0.03      | 10        | 0.46      | 371       | 1         | 0.03      | 21        | 950       | 5         | 0.12      | <2        | 1         | 66  |
| ZZ117174           |              | <10       | <1        | 0.04      | 10        | 0.96      | 1215      | 3         | 0.01      | 61        | 740       | 20        | 0.08      | 2         | 5         | 21  |
| ZZ117175           |              | <10       | <1        | 0.02      | 10        | 0.92      | 559       | 2         | 0.01      | 49        | 830       | 28        | 0.10      | 2         | 4         | 22  |
| ZZ117176           |              | 10        | <1        | 0.04      | 10        | 3.15      | 754       | 2         | 0.01      | 196       | 1010      | 9         | 0.11      | <2        | 10        | 47  |
| ZZ117177           |              | 10        | <1        | 0.04      | 10        | 2.55      | 892       | 2         | 0.01      | 141       | 920       | 10        | 0.08      | <2        | 10        | 22  |
| ZZ117178           |              | 10        | <1        | 0.06      | 10        | 2.39      | 836       | 2         | 0.02      | 84        | 950       | 11        | 0.05      | <2        | 9         | 35  |
| ZZ117179           |              | 10        | <1        | 0.05      | 10        | 1.15      | 641       | 4         | 0.01      | 50        | 580       | 11        | 0.06      | 2         | 4         | 29  |
| ZZ117180           |              | 10        | <1        | 0.05      | 10        | 1.55      | 904       | 3         | 0.01      | 60        | 550       | 7         | 0.05      | 2         | 5         | 28  |
| ZZ117181           |              | 10        | 1         | 0.04      | 10        | 1.23      | 721       | 3         | 0.01      | 51        | 600       | 8         | 0.06      | 3         | 4         | 26  |
| ZZ117182           |              | 10        | <1        | 0.04      | 10        | 0.79      | 471       | 2         | 0.02      | 31        | 700       | 6         | 0.07      | <2        | 3         | 25  |
| ZZ117183           |              | 10        | <1        | 0.05      | 10        | 1.71      | 958       | 2         | 0.02      | 68        | 780       | 8         | 0.08      | <2        | 5         | 32  |
| ZZ117184           |              | 10        | <1        | 0.05      | 10        | 1.47      | 908       | 3         | 0.01      | 57        | 820       | 8         | 0.07      | <2        | 4         | 31  |
| ZZ117185           |              | 10        | <1        | 0.07      | <10       | 3.67      | 1180      | 1         | 0.01      | 78        | 580       | 4         | 0.03      | <2        | 16        | 24  |
| ZZ117186           |              | 10        | <1        | 0.04      | <10       | 3.27      | 1185      | 1         | 0.01      | 74        | 580       | 2         | 0.03      | <2        | 12        | 29  |
| ZZ117187           |              | 10        | 1         | 0.05      | 10        | 3.58      | 1155      | 1         | 0.02      | 142       | 580       | 6         | 0.05      | <2        | 9         | 22  |
| ZZ117188           |              | 10        | 1         | 0.05      | 10        | 3.52      | 1120      | 1         | 0.02      | 115       | 540       | 4         | 0.06      | <2        | 10        | 23  |
| ZZ117189           |              | 10        | 1         | 0.05      | <10       | 2.36      | 824       | <1        | <0.01     | 65        | 450       | 3         | 0.03      | <2        | 9         | 33  |
| ZZ117190           |              | 10        | <1        | 0.04      | <10       | 2.46      | 1260      | 1         | 0.01      | 62        | 680       | 4         | 0.08      | <2        | 8         | 28  |
| ZZ117191           |              | 10        | <1        | 0.04      | <10       | 3.30      | 1270      | 1         | 0.01      | 73        | 570       | 3         | 0.05      | <2        | 10        | 23  |
| ZZ117192           |              | 10        | 1         | 0.04      | <10       | 3.14      | 1290      | 1         | <0.01     | 78        | 440       | <2        | 0.09      | <2        | 10        | 25  |
| ZZ117193           |              | 10        | <1        | 0.04      | <10       | 3.03      | 1330      | 1         | 0.01      | 87        | 550       | 3         | 0.07      | <2        | 12        | 19  |
| ZZ117194           |              | 10        | 1         | 0.05      | 10        | 2.56      | 1850      | 2         | 0.02      | 86        | 680       | 5         | 0.10      | <2        | 10        | 27  |
| ZZ117195           |              | 10        | 1         | 0.05      | <10       | 3.50      | 1665      | 1         | 0.01      | 107       | 680       | 2         | 0.06      | <2        | 21        | 16  |
| ZZ117196           |              | 10        | 1         | 0.05      | 10        | 3.01      | 844       | 1         | 0.02      | 101       | 630       | 6         | 0.03      | <2        | 10        | 28  |
| ZZ117197           |              | 10        | <1        | 0.05      | <10       | 3.93      | 1155      | 1         | 0.01      | 110       | 510       | 2         | 0.02      | <2        | 13        | 23  |
| ZZ117198           |              | 10        | <1        | 0.05      | <10       | 3.60      | 1020      | 1         | 0.01      | 84        | 620       | <2        | 0.03      | <2        | 12        | 23  |
| ZZ117199           |              | 10        | 1         | 0.06      | <10       | 4.01      | 1070      | 1         | 0.01      | 100       | 650       | <2        | 0.03      | <2        | 13        | 26  |
| ZZ117200           |              | 10        | 1         | 0.06      | <10       | 3.23      | 1000      | <1        | 0.01      | 76        | 540       | <2        | 0.01      | <2        | 12        | 24  |



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 Account: MTT

Project: VAULT

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17165202 |
|------------------------------------|

| Sample Description | Method Analyte Units LOR | ME- ICP41 Th ppm | ME- ICP41 Ti % | ME- ICP41 Tl ppm | ME- ICP41 U ppm | ME- ICP41 V ppm | ME- ICP41 W ppm | ME- ICP41 Zn ppm |
|--------------------|--------------------------|------------------|----------------|------------------|-----------------|-----------------|-----------------|------------------|
|                    |                          | 20               | 0.01           | 10               | 10              | 1               | 10              | 2                |
| ZZ117163           |                          | <20              | 0.03           | <10              | <10             | 60              | <10             | 84               |
| ZZ117164           |                          | <20              | 0.05           | <10              | <10             | 48              | <10             | 71               |
| ZZ117165           |                          | <20              | 0.06           | <10              | <10             | 68              | <10             | 75               |
| ZZ117166           |                          | <20              | 0.02           | <10              | <10             | 52              | <10             | 101              |
| ZZ117167           |                          | <20              | 0.02           | <10              | <10             | 50              | <10             | 80               |
| ZZ117168           |                          | <20              | 0.04           | <10              | <10             | 50              | <10             | 78               |
| ZZ117169           |                          | <20              | 0.03           | <10              | <10             | 49              | <10             | 89               |
| ZZ117170           |                          | <20              | 0.02           | <10              | <10             | 46              | <10             | 80               |
| ZZ117171           |                          | <20              | 0.02           | <10              | <10             | 48              | <10             | 83               |
| ZZ117172           |                          | <20              | 0.03           | <10              | <10             | 44              | <10             | 72               |
| ZZ117173           |                          | <20              | 0.04           | <10              | <10             | 35              | <10             | 57               |
| ZZ117174           |                          | <20              | 0.01           | <10              | <10             | 40              | <10             | 144              |
| ZZ117175           |                          | <20              | 0.02           | <10              | <10             | 40              | <10             | 218              |
| ZZ117176           |                          | <20              | 0.07           | <10              | <10             | 115             | <10             | 107              |
| ZZ117177           |                          | <20              | 0.02           | <10              | <10             | 102             | <10             | 106              |
| ZZ117178           |                          | <20              | 0.10           | <10              | <10             | 95              | <10             | 113              |
| ZZ117179           |                          | <20              | 0.10           | <10              | <10             | 103             | <10             | 102              |
| ZZ117180           |                          | <20              | 0.09           | <10              | <10             | 112             | <10             | 106              |
| ZZ117181           |                          | <20              | 0.09           | <10              | <10             | 101             | <10             | 107              |
| ZZ117182           |                          | <20              | 0.06           | <10              | <10             | 50              | <10             | 67               |
| ZZ117183           |                          | <20              | 0.08           | <10              | <10             | 99              | <10             | 88               |
| ZZ117184           |                          | <20              | 0.08           | <10              | <10             | 105             | <10             | 95               |
| ZZ117185           |                          | <20              | 0.17           | <10              | <10             | 177             | <10             | 93               |
| ZZ117186           |                          | <20              | 0.20           | <10              | <10             | 153             | <10             | 73               |
| ZZ117187           |                          | <20              | 0.11           | <10              | <10             | 117             | <10             | 82               |
| ZZ117188           |                          | <20              | 0.12           | <10              | <10             | 121             | <10             | 81               |
| ZZ117189           |                          | <20              | 0.16           | <10              | <10             | 120             | <10             | 62               |
| ZZ117190           |                          | <20              | 0.13           | <10              | <10             | 133             | <10             | 65               |
| ZZ117191           |                          | <20              | 0.48           | <10              | <10             | 201             | <10             | 105              |
| ZZ117192           |                          | <20              | 0.53           | <10              | <10             | 187             | <10             | 98               |
| ZZ117193           |                          | <20              | 0.34           | <10              | <10             | 163             | <10             | 86               |
| ZZ117194           |                          | <20              | 0.23           | <10              | <10             | 122             | <10             | 90               |
| ZZ117195           |                          | <20              | 0.18           | <10              | <10             | 204             | <10             | 100              |
| ZZ117196           |                          | <20              | 0.10           | <10              | <10             | 105             | <10             | 86               |
| ZZ117197           |                          | <20              | 0.15           | <10              | <10             | 131             | <10             | 74               |
| ZZ117198           |                          | <20              | 0.17           | <10              | <10             | 150             | <10             | 73               |
| ZZ117199           |                          | <20              | 0.20           | <10              | <10             | 155             | <10             | 76               |
| ZZ117200           |                          | <20              | 0.38           | <10              | <10             | 164             | <10             | 95               |



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Project: VAULT

**CERTIFICATE OF ANALYSIS WH17165202**

| <b>CERTIFICATE COMMENTS</b> |   |
|-----------------------------|---|
|                             | <p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.<br/>Applies to Method: LOG- 22 SCR- 41 WEI- 21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.<br/>Applies to Method: Au- AA24 ME- ICP41</p> |



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**Plus Appendix Pages**  
**Finalized Date: 22- SEP- 2017**  
**Account: MTT**

**CERTIFICATE WH17174156**

Project: Vault

This report is for 75 Rock samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2017.

The following have access to data associated with this certificate:

|              |                |             |
|--------------|----------------|-------------|
| ANDREW CARNE | JOAN MARIACHER | JACK MORTON |
|--------------|----------------|-------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI- 21            | Received Sample Weight         |
| LOG- 21            | Sample logging - ClientBarCode |
| CRU- QC            | Crushing QC Test               |
| PUL- QC            | Pulverizing QC Test            |
| CRU- 31            | Fine crushing - 70% <2mm       |
| SPL- 21            | Split sample - riffle splitter |
| PUL- 31            | Pulverize split to 85% < 75 um |

| ANALYTICAL PROCEDURES |                                |            |
|-----------------------|--------------------------------|------------|
| ALS CODE              | DESCRIPTION                    | INSTRUMENT |
| Au- AA24              | Au 50g FA AA finish            | AAS        |
| ME- ICP41             | 35 Element Aqua Regia ICP- AES | ICP- AES   |
| ME- OG46              | Ore Grade Elements - AquaRegia | ICP- AES   |
| Cu- OG46              | Ore Grade Cu - Aqua Regia      | ICP- AES   |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method  | WEI- 21   | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Au       | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        |
| Units              |         | kg        | ppm      | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         |
| LOR                |         | 0.02      | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| K293127            |         | 2.13      |          | 0.2       | 1.74      | 58        | 10        | 40        | <0.5      | <2        | 5.33      | <0.5      | 28        | 48        | 661       | 7.31      |
| K293128            |         | 1.22      | 2.94     | 0.7       | 1.14      | 329       | 10        | 60        | <0.5      | <2        | 5.22      | <0.5      | 41        | 4         | 293       | 10.80     |
| K293129            |         | 1.09      | 0.008    | 0.2       | 2.53      | 5         | 10        | 20        | <0.5      | <2        | 2.49      | <0.5      | 26        | 30        | 1340      | 6.01      |
| K293130            |         | 0.98      |          | <0.2      | 1.35      | 160       | 10        | 30        | <0.5      | <2        | 8.0       | <0.5      | 24        | 27        | 39        | 4.70      |
| K293131            |         | 1.07      | <0.005   | <0.2      | 2.21      | 18        | 20        | 70        | <0.5      | <2        | 11.3      | 2.2       | 142       | 15        | 225       | 4.23      |
| K293132            |         | 1.00      | 1.375    | <0.2      | 0.48      | 971       | <10       | 20        | <0.5      | <2        | 2.44      | <0.5      | 8         | 18        | 10        | 1.95      |
| K293133            |         | 0.67      | 0.024    | <0.2      | 0.21      | 6         | <10       | 10        | <0.5      | <2        | 1.93      | <0.5      | 3         | 23        | 28        | 0.86      |
| K293134            |         | 0.90      | 0.009    | <0.2      | 0.03      | 3         | <10       | 10        | <0.5      | <2        | 18.8      | 0.5       | <1        | 2         | 4         | 0.96      |
| K293135            |         | 1.00      | 0.008    | <0.2      | 0.05      | <2        | <10       | 20        | <0.5      | <2        | 11.3      | 4.9       | 1         | 8         | 4         | 0.67      |
| K293136            |         | 1.05      | <0.005   | <0.2      | 0.07      | 2         | <10       | 20        | <0.5      | <2        | >25.0     | <0.5      | 1         | 4         | 1         | 0.62      |
| K293137            |         | 1.11      | <0.005   | <0.2      | 0.51      | 39        | 5430      | 10        | <0.5      | <2        | 22.9      | <0.5      | 4         | 3         | 10        | 0.61      |
| K293138            |         | 0.67      | 2.29     | 0.6       | 0.21      | <2        | 60        | 30        | <0.5      | 3         | 3.81      | <0.5      | 6         | 14        | 226       | 2.06      |
| K293139            |         | 0.99      | <0.005   | <0.2      | 0.91      | <2        | 30        | 1940      | <0.5      | <2        | 7.7       | <0.5      | 2         | 8         | 14        | 1.07      |
| K293140            |         | 1.24      | 0.013    | 3.7       | 1.53      | <2        | 20        | 50        | <0.5      | <2        | 7.4       | 1.2       | 22        | 106       | >10000    | 7.32      |
| K293141            |         | 1.23      | 0.027    | <0.2      | 0.75      | 6         | 10        | 70        | <0.5      | <2        | 4.06      | <0.5      | 17        | 8         | 85        | 4.23      |
| K293142            |         | 1.18      | 0.006    | <0.2      | 1.71      | 7         | 10        | 50        | <0.5      | <2        | 2.37      | <0.5      | 17        | 25        | 491       | 4.90      |
| K293143            |         | 1.42      |          | <0.2      | 0.05      | <2        | <10       | 90        | <0.5      | <2        | 16.0      | <0.5      | 2         | 10        | 8         | 1.05      |
| K293144            |         | 0.74      |          | <0.2      | 2.90      | 6         | 10        | 40        | <0.5      | <2        | 8.3       | <0.5      | 30        | 244       | 67        | 5.01      |
| K293145            |         | 1.23      |          | <0.2      | 2.22      | 20        | 10        | 90        | <0.5      | <2        | 5.38      | <0.5      | 29        | 192       | 78        | 4.82      |
| K293146            |         | 1.26      | 0.008    | <0.2      | 2.78      | 2         | 10        | 50        | <0.5      | 2         | 2.72      | <0.5      | 26        | 54        | 190       | 6.12      |
| K293147            |         | 0.81      |          | <0.2      | 0.64      | 6         | <10       | 190       | <0.5      | <2        | 8.8       | <0.5      | 5         | 29        | 55        | 1.49      |
| K293148            |         | 1.30      |          | <0.2      | 1.18      | <2        | <10       | 140       | <0.5      | <2        | 21.5      | <0.5      | 9         | 59        | 30        | 2.01      |
| K293149            |         | 1.49      | <0.005   | <0.2      | 0.19      | 2         | 10        | 150       | <0.5      | <2        | 21.3      | <0.5      | 1         | 1         | 32        | 16.15     |
| K293150            |         | 1.27      | <0.005   | 1.2       | 1.19      | <2        | 10        | 10        | <0.5      | <2        | 17.6      | <0.5      | 14        | 24        | 3830      | 5.44      |
| S052451            |         | 1.29      | 0.012    | 0.3       | 0.13      | 3         | <10       | 60        | <0.5      | 2         | 15.8      | 0.9       | 10        | 4         | 29        | 6.36      |
| S052452            |         | 0.98      | 0.352    | 0.2       | 0.58      | <2        | 20        | 60        | <0.5      | <2        | 16.4      | <0.5      | 18        | 14        | 104       | 2.79      |
| S052453            |         | 0.95      | 0.336    | 4.9       | 0.07      | 6         | <10       | 280       | <0.5      | 2         | 5.14      | <0.5      | 1         | 9         | 2690      | 0.67      |
| S052454            |         | 0.80      |          | 0.2       | 2.19      | 4         | <10       | 10        | <0.5      | <2        | 0.80      | <0.5      | 19        | 136       | 70        | 4.27      |
| S052455            |         | 1.19      | 0.008    | 0.2       | 0.04      | 11        | <10       | 20        | <0.5      | 2         | >25.0     | 1.0       | 6         | 2         | 13        | 0.79      |
| S052456            |         | 1.35      |          | 0.2       | 0.16      | 2         | <10       | 1020      | <0.5      | <2        | 24.0      | <0.5      | 3         | 4         | 20        | 1.04      |
| S052457            |         | 1.03      |          | 0.2       | 0.79      | 14        | <10       | 60        | <0.5      | <2        | 5.33      | <0.5      | 16        | 26        | 56        | 4.75      |
| S052458            |         | 1.28      | 0.015    | <0.2      | 2.88      | 5         | <10       | 130       | <0.5      | <2        | 8.2       | <0.5      | 40        | 70        | 115       | 8.06      |
| S052459            |         | 0.97      | <0.005   | 0.3       | 0.14      | <2        | <10       | 10        | <0.5      | <2        | 2.78      | <0.5      | <1        | 12        | 565       | 0.54      |
| S052460            |         | 0.99      | 0.008    | 5.3       | 1.46      | <2        | 10        | 10        | <0.5      | 2         | 2.37      | <0.5      | 6         | 23        | >10000    | 2.92      |
| S052461            |         | 1.89      | 0.017    | 15.9      | 1.03      | 3         | 10        | <10       | <0.5      | <2        | 1.76      | <0.5      | 6         | 31        | >10000    | 5.53      |
| S052462            |         | 3.31      | 0.019    | <0.2      | 2.87      | 12        | <10       | 30        | <0.5      | <2        | 2.52      | <0.5      | 34        | 128       | 308       | 5.97      |
| S052463            |         | 3.38      | 0.008    | 0.3       | 2.82      | 8         | <10       | 80        | <0.5      | <2        | 2.59      | <0.5      | 32        | 121       | 1975      | 5.66      |
| S052464            |         | 3.33      | 0.018    | <0.2      | 2.50      | 13        | <10       | 40        | <0.5      | <2        | 2.63      | <0.5      | 28        | 88        | 84        | 5.26      |
| S052465            |         | 3.30      | 0.010    | <0.2      | 2.73      | 11        | <10       | 30        | <0.5      | <2        | 2.63      | <0.5      | 31        | 102       | 258       | 5.51      |
| S052466            |         | 3.43      | 0.008    | <0.2      | 2.83      | 10        | 10        | 90        | <0.5      | <2        | 2.25      | <0.5      | 30        | 104       | 55        | 5.17      |



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**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    |                          | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr  |
|                    |                          | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm |
|                    |                          | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1   |
| K293127            |                          | 10        | <1        | 0.33      | <10       | 2.39      | 1195      | <1        | 0.04      | 43        | 930       | <2        | 1.12      | <2        | 19        | 126 |
| K293128            |                          | <10       | <1        | 0.36      | <10       | 1.48      | 892       | 1         | 0.03      | 38        | 1150      | 3         | 6.19      | <2        | 20        | 117 |
| K293129            |                          | 10        | 1         | 0.10      | 10        | 1.55      | 464       | <1        | 0.04      | 33        | 840       | <2        | 0.01      | <2        | 8         | 36  |
| K293130            |                          | <10       | <1        | 0.18      | <10       | 1.76      | 1140      | <1        | 0.03      | 45        | 180       | <2        | 0.50      | <2        | 18        | 163 |
| K293131            |                          | 10        | 3         | 0.26      | <10       | 0.38      | 333       | 1         | 0.01      | 82        | 160       | 4         | 2.99      | <2        | 2         | 31  |
| K293132            |                          | <10       | <1        | 0.06      | <10       | 0.49      | 310       | <1        | 0.03      | 11        | 20        | <2        | 0.30      | <2        | 6         | 85  |
| K293133            |                          | <10       | <1        | 0.01      | <10       | 0.18      | 155       | <1        | 0.01      | 5         | 30        | <2        | 0.22      | <2        | 1         | 21  |
| K293134            |                          | <10       | <1        | 0.01      | <10       | 10.50     | 772       | 1         | 0.01      | 1         | 160       | 14        | 0.15      | <2        | <1        | 217 |
| K293135            |                          | <10       | <1        | 0.01      | <10       | 6.54      | 451       | <1        | <0.01     | 1         | 350       | 11        | 0.04      | <2        | <1        | 178 |
| K293136            |                          | <10       | <1        | 0.01      | <10       | 1.32      | 1650      | <1        | <0.01     | 4         | 110       | 5         | 0.23      | <2        | 1         | 691 |
| K293137            |                          | <10       | 1         | 0.03      | <10       | 0.61      | 616       | <1        | <0.01     | 10        | 600       | 2         | <0.01     | <2        | 1         | 216 |
| K293138            |                          | <10       | <1        | 0.13      | <10       | 1.07      | 783       | <1        | 0.01      | 7         | 560       | <2        | <0.01     | <2        | 7         | 73  |
| K293139            |                          | <10       | <1        | 0.01      | <10       | 0.08      | 306       | <1        | <0.01     | <1        | 370       | <2        | 0.09      | <2        | 2         | 486 |
| K293140            |                          | <10       | <1        | 0.34      | <10       | 1.04      | 506       | <1        | 0.04      | 35        | 970       | <2        | 0.08      | <2        | 13        | 73  |
| K293141            |                          | <10       | <1        | 0.17      | <10       | 1.20      | 579       | <1        | 0.02      | 7         | 490       | <2        | 0.04      | <2        | 9         | 115 |
| K293142            |                          | 10        | <1        | 0.12      | <10       | 0.17      | 283       | <1        | <0.01     | 27        | 820       | <2        | <0.01     | 2         | 13        | 245 |
| K293143            |                          | <10       | 1         | 0.02      | <10       | 7.42      | 656       | <1        | 0.01      | 8         | 180       | <2        | 0.13      | <2        | 2         | 138 |
| K293144            |                          | 10        | <1        | 0.11      | <10       | 3.09      | 874       | <1        | 0.03      | 92        | 260       | 5         | 0.23      | <2        | 18        | 175 |
| K293145            |                          | 10        | <1        | 0.15      | <10       | 3.39      | 891       | <1        | 0.04      | 81        | 260       | 3         | 0.03      | <2        | 26        | 85  |
| K293146            |                          | 10        | <1        | 0.04      | 10        | 1.94      | 615       | <1        | 0.07      | 37        | 980       | <2        | <0.01     | <2        | 10        | 23  |
| K293147            |                          | <10       | <1        | 0.04      | <10       | 0.59      | 766       | <1        | <0.01     | 11        | 270       | 2         | 0.09      | <2        | 8         | 532 |
| K293148            |                          | <10       | 1         | 0.09      | <10       | 1.16      | 1385      | 1         | 0.01      | 33        | 290       | <2        | <0.01     | <2        | 5         | 978 |
| K293149            |                          | <10       | 1         | <0.01     | <10       | 0.19      | 3230      | 2         | <0.01     | 2         | 900       | 3         | 0.01      | <2        | 1         | 104 |
| K293150            |                          | <10       | 1         | 0.20      | <10       | 0.94      | 494       | <1        | 0.02      | 28        | 310       | <2        | <0.01     | <2        | 6         | 132 |
| S052451            |                          | <10       | <1        | 0.05      | <10       | 4.68      | 1335      | <1        | 0.02      | 27        | 1280      | 27        | 1.18      | <2        | 4         | 953 |
| S052452            |                          | <10       | <1        | 0.06      | <10       | 1.72      | 1220      | <1        | 0.02      | 34        | 250       | 4         | 0.15      | <2        | 6         | 951 |
| S052453            |                          | <10       | <1        | 0.03      | <10       | 0.11      | 365       | <1        | 0.01      | 2         | 40        | <2        | 0.11      | 2         | 1         | 116 |
| S052454            |                          | <10       | <1        | 0.01      | <10       | 2.26      | 382       | 1         | 0.03      | 88        | 200       | <2        | 0.55      | <2        | 5         | 20  |
| S052455            |                          | <10       | <1        | 0.01      | 10        | 1.08      | 414       | <1        | 0.02      | 11        | 100       | 9         | 0.18      | <2        | 1         | 241 |
| S052456            |                          | <10       | <1        | 0.01      | 10        | 3.50      | 1480      | <1        | 0.02      | 6         | 170       | 4         | 0.32      | 3         | 3         | 425 |
| S052457            |                          | <10       | <1        | 0.16      | <10       | 2.51      | 1240      | <1        | 0.04      | 37        | 300       | 5         | 0.69      | <2        | 5         | 178 |
| S052458            |                          | 10        | <1        | 0.12      | <10       | 2.04      | 968       | 1         | 0.03      | 66        | 500       | 2         | 3.31      | <2        | 9         | 69  |
| S052459            |                          | <10       | <1        | 0.03      | <10       | 0.09      | 201       | <1        | 0.02      | 2         | 20        | <2        | 0.03      | <2        | 1         | 82  |
| S052460            |                          | <10       | <1        | <0.01     | <10       | 0.27      | 218       | 1         | 0.02      | 13        | 250       | <2        | 0.62      | <2        | 3         | 894 |
| S052461            |                          | <10       | <1        | <0.01     | <10       | 0.30      | 163       | <1        | 0.02      | 12        | 210       | <2        | 2.19      | <2        | 3         | 339 |
| S052462            |                          | 10        | <1        | 0.08      | <10       | 3.07      | 836       | <1        | 0.06      | 67        | 650       | <2        | 0.01      | <2        | 18        | 55  |
| S052463            |                          | 10        | <1        | 0.04      | <10       | 3.02      | 783       | <1        | 0.05      | 60        | 650       | <2        | 0.03      | <2        | 17        | 63  |
| S052464            |                          | 10        | <1        | 0.12      | <10       | 2.48      | 754       | <1        | 0.06      | 54        | 630       | <2        | 0.02      | 2         | 16        | 58  |
| S052465            |                          | 10        | <1        | 0.12      | <10       | 2.84      | 788       | <1        | 0.05      | 60        | 640       | <2        | 0.01      | <2        | 15        | 47  |
| S052466            |                          | 10        | <1        | 0.08      | <10       | 2.80      | 761       | <1        | 0.06      | 59        | 610       | <2        | 0.02      | 2         | 13        | 57  |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Cu- OG46 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Th        | Ti        | Tl        | U         | V         | W         | Zn        | Cu       |
|                    |                          | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %        |
|                    |                          | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.001    |
| K293127            |                          | <20       | 0.01      | <10       | <10       | 98        | <10       | 95        |          |
| K293128            |                          | <20       | <0.01     | <10       | <10       | 85        | <10       | 68        |          |
| K293129            |                          | <20       | 0.36      | <10       | <10       | 180       | <10       | 68        |          |
| K293130            |                          | <20       | <0.01     | <10       | <10       | 52        | <10       | 57        |          |
| K293131            |                          | <20       | 0.04      | <10       | <10       | 70        | <10       | 19        |          |
| K293132            |                          | <20       | <0.01     | <10       | <10       | 35        | <10       | 33        |          |
| K293133            |                          | <20       | 0.02      | <10       | <10       | 10        | <10       | 8         |          |
| K293134            |                          | <20       | <0.01     | <10       | <10       | 5         | <10       | 52        |          |
| K293135            |                          | <20       | <0.01     | <10       | <10       | 3         | <10       | 290       |          |
| K293136            |                          | <20       | <0.01     | <10       | <10       | 4         | <10       | 23        |          |
| K293137            |                          | <20       | 0.03      | <10       | <10       | 10        | 30        | 35        |          |
| K293138            |                          | <20       | <0.01     | <10       | <10       | 12        | <10       | 14        |          |
| K293139            |                          | <20       | 0.19      | <10       | <10       | 49        | <10       | 3         |          |
| K293140            |                          | <20       | 0.52      | <10       | <10       | 172       | <10       | 38        | 1.360    |
| K293141            |                          | <20       | 0.01      | <10       | <10       | 55        | <10       | 29        |          |
| K293142            |                          | <20       | 0.33      | <10       | <10       | 112       | <10       | 19        |          |
| K293143            |                          | <20       | <0.01     | <10       | <10       | 11        | <10       | 28        |          |
| K293144            |                          | <20       | 0.15      | <10       | <10       | 148       | <10       | 67        |          |
| K293145            |                          | <20       | 0.02      | <10       | <10       | 122       | <10       | 45        |          |
| K293146            |                          | <20       | 0.65      | <10       | <10       | 208       | <10       | 82        |          |
| K293147            |                          | <20       | <0.01     | <10       | <10       | 47        | <10       | 25        |          |
| K293148            |                          | <20       | 0.01      | <10       | <10       | 38        | <10       | 24        |          |
| K293149            |                          | <20       | <0.01     | <10       | <10       | 60        | <10       | 13        |          |
| K293150            |                          | <20       | 0.35      | <10       | <10       | 106       | <10       | 36        |          |
| S052451            |                          | <20       | <0.01     | <10       | <10       | 112       | <10       | 62        |          |
| S052452            |                          | <20       | <0.01     | <10       | <10       | 22        | <10       | 31        |          |
| S052453            |                          | <20       | <0.01     | <10       | <10       | 5         | <10       | 3         |          |
| S052454            |                          | <20       | 0.23      | <10       | <10       | 99        | <10       | 34        |          |
| S052455            |                          | <20       | <0.01     | <10       | <10       | 2         | <10       | 49        |          |
| S052456            |                          | <20       | <0.01     | <10       | <10       | 14        | <10       | 28        |          |
| S052457            |                          | <20       | <0.01     | <10       | <10       | 20        | <10       | 65        |          |
| S052458            |                          | <20       | 0.12      | <10       | <10       | 107       | <10       | 57        |          |
| S052459            |                          | <20       | <0.01     | <10       | <10       | 10        | <10       | 3         |          |
| S052460            |                          | <20       | 0.28      | <10       | <10       | 96        | <10       | 11        | 3.98     |
| S052461            |                          | <20       | 0.20      | <10       | <10       | 106       | <10       | 12        | 15.65    |
| S052462            |                          | <20       | 0.17      | <10       | <10       | 172       | <10       | 70        |          |
| S052463            |                          | <20       | 0.18      | <10       | <10       | 164       | <10       | 62        |          |
| S052464            |                          | <20       | 0.18      | <10       | <10       | 151       | <10       | 60        |          |
| S052465            |                          | <20       | 0.18      | <10       | <10       | 156       | <10       | 77        |          |
| S052466            |                          | <20       | 0.24      | <10       | <10       | 158       | <10       | 60        |          |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method Analyte Units LOR | WEI- 21      | Au- AA24 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |      |
|--------------------|--------------------------|--------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
|                    |                          | Recvd Wt. kg | Au ppm   | Ag ppm    | Al %      | As ppm    | B ppm     | Ba ppm    | Be ppm    | Bi ppm    | Ca %      | Cd ppm    | Co ppm    | Cr ppm    | Cu ppm    | Fe % |
|                    |                          | 0.02         | 0.005    | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01 |
| S052467            |                          | 3.56         | 0.046    | <0.2      | 2.85      | 63        | <10       | 30        | <0.5      | <2        | 2.97      | <0.5      | 31        | 106       | 105       | 5.50 |
| S052468            |                          | 3.36         | 0.027    | <0.2      | 2.56      | 6         | <10       | 20        | <0.5      | 2         | 2.36      | <0.5      | 30        | 106       | 71        | 5.16 |
| S052469            |                          | 3.45         | 0.007    | <0.2      | 2.86      | 12        | <10       | 30        | <0.5      | <2        | 3.59      | <0.5      | 31        | 126       | 81        | 5.69 |
| S052470            |                          | 3.30         | 0.022    | <0.2      | 2.71      | 12        | <10       | 30        | <0.5      | <2        | 2.60      | <0.5      | 29        | 106       | 55        | 5.09 |
| S052471            |                          | 3.59         | 0.009    | <0.2      | 2.50      | 11        | <10       | 20        | <0.5      | <2        | 2.15      | <0.5      | 28        | 110       | 76        | 4.52 |
| S052472            |                          | 3.79         | 0.014    | <0.2      | 2.49      | 19        | <10       | 30        | <0.5      | <2        | 3.05      | <0.5      | 28        | 97        | 59        | 5.18 |
| S052473            |                          | 3.90         | 0.080    | <0.2      | 2.01      | 4         | <10       | 30        | <0.5      | <2        | 2.84      | <0.5      | 26        | 67        | 94        | 4.54 |
| S052474            |                          | 4.61         | 0.010    | <0.2      | 2.16      | 5         | <10       | 30        | <0.5      | <2        | 2.60      | <0.5      | 24        | 84        | 53        | 4.11 |
| S052475            |                          | 3.71         | 0.017    | <0.2      | 2.47      | 6         | <10       | 590       | <0.5      | <2        | 3.54      | <0.5      | 30        | 120       | 71        | 5.17 |
| S052476            |                          | 4.07         | 0.024    | <0.2      | 2.66      | 7         | <10       | 40        | <0.5      | <2        | 2.99      | <0.5      | 28        | 92        | 55        | 5.42 |
| S052477            |                          | 3.72         | 0.006    | <0.2      | 2.64      | 7         | <10       | 30        | <0.5      | <2        | 2.44      | <0.5      | 30        | 107       | 54        | 4.95 |
| S052478            |                          | 3.81         | 0.008    | <0.2      | 2.51      | 11        | <10       | 30        | <0.5      | <2        | 1.81      | <0.5      | 27        | 74        | 46        | 5.02 |
| S052479            |                          | 1.08         |          | 1.1       | 0.44      | 27        | 10        | 90        | <0.5      | <2        | 1.03      | <0.5      | 19        | 21        | 617       | 0.68 |
| S052480            |                          | 1.03         |          | 1.0       | 0.34      | 66        | <10       | 70        | <0.5      | <2        | 2.93      | 0.5       | 42        | 15        | 66        | 2.19 |
| S052481            |                          | 1.23         |          | 1.6       | 2.25      | 6         | 10        | 10        | <0.5      | <2        | 1.58      | <0.5      | 20        | 78        | 7570      | 4.34 |
| S052482            |                          | 1.14         | 0.006    | 3.0       | 3.03      | <2        | 20        | 20        | <0.5      | <2        | 6.36      | <0.5      | 27        | 42        | 5130      | 5.39 |
| S052483            |                          | 3.60         | 0.019    | 0.2       | 1.48      | 22        | <10       | 60        | <0.5      | <2        | 3.31      | <0.5      | 15        | 18        | 109       | 4.25 |
| S052484            |                          | 3.68         | 0.030    | 0.3       | 1.75      | 13        | <10       | 70        | <0.5      | <2        | 4.72      | <0.5      | 14        | 47        | 160       | 4.14 |
| S052485            |                          | 3.62         | 0.049    | 0.3       | 1.71      | 25        | <10       | 90        | <0.5      | <2        | 3.56      | <0.5      | 18        | 83        | 65        | 4.32 |
| S052486            |                          | 2.88         | 0.027    | 0.2       | 1.54      | 17        | <10       | 100       | <0.5      | <2        | 3.05      | <0.5      | 14        | 54        | 56        | 3.91 |
| S052487            |                          | 3.23         | 0.028    | 0.2       | 1.47      | 12        | <10       | 90        | <0.5      | <2        | 10.1      | <0.5      | 14        | 60        | 49        | 3.36 |
| S052488            |                          | 2.80         | 0.014    | 0.2       | 1.92      | 16        | <10       | 50        | <0.5      | <2        | 4.94      | <0.5      | 17        | 105       | 60        | 4.34 |
| S052489            |                          | 3.29         | 0.005    | 0.2       | 1.72      | 20        | <10       | 310       | <0.5      | <2        | 4.41      | <0.5      | 15        | 35        | 52        | 4.44 |
| S052490            |                          | 3.11         | 0.076    | 0.3       | 0.99      | 27        | <10       | 90        | <0.5      | <2        | 3.38      | <0.5      | 14        | 14        | 73        | 4.40 |
| S052491            |                          | 3.30         | 0.047    | 0.3       | 0.73      | 63        | <10       | 140       | <0.5      | <2        | 6.01      | <0.5      | 20        | 45        | 60        | 4.84 |
| S052492            |                          | 3.69         | 0.137    | 0.4       | 0.58      | 43        | <10       | 60        | <0.5      | <2        | 4.23      | <0.5      | 18        | 27        | 75        | 4.73 |
| S052493            |                          | 3.66         | 0.035    | 0.2       | 1.28      | 24        | <10       | 90        | <0.5      | <2        | 6.40      | <0.5      | 23        | 73        | 66        | 4.61 |
| S052494            |                          | 3.02         | 0.039    | 0.2       | 1.90      | 14        | <10       | 70        | <0.5      | <2        | 6.62      | <0.5      | 27        | 84        | 83        | 5.16 |
| S052495            |                          | 2.99         | 0.021    | <0.2      | 1.97      | 23        | <10       | 140       | <0.5      | <2        | 4.66      | <0.5      | 26        | 67        | 100       | 5.43 |
| S052496            |                          | 3.53         | 0.021    | 0.2       | 2.48      | 24        | <10       | 40        | <0.5      | <2        | 3.80      | <0.5      | 29        | 101       | 105       | 6.10 |
| S052497            |                          | 3.17         | 0.037    | 0.2       | 1.25      | 16        | <10       | 60        | <0.5      | 2         | 3.25      | <0.5      | 10        | 16        | 34        | 2.87 |
| S052498            |                          | 3.89         | 0.011    | 0.2       | 1.41      | 8         | <10       | 80        | <0.5      | <2        | 4.05      | <0.5      | 7         | 13        | 31        | 2.67 |
| S052499            |                          | 3.44         | 0.017    | 0.3       | 1.97      | 14        | <10       | 70        | <0.5      | <2        | 1.80      | <0.5      | 12        | 21        | 44        | 4.03 |
| S052500            |                          | 3.55         | 0.019    | 0.2       | 2.04      | 17        | <10       | 40        | <0.5      | <2        | 1.90      | <0.5      | 14        | 22        | 56        | 4.60 |
| S052401            |                          | 4.76         | 0.016    | 0.2       | 2.14      | 15        | <10       | 90        | <0.5      | <2        | 4.42      | <0.5      | 17        | 56        | 59        | 4.47 |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |        |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|                    |                          | Ga ppm    | Hg ppm    | K %       | La ppm    | Mg %      | Mn ppm    | Mo ppm    | Na %      | Ni ppm    | P ppm     | Pb ppm    | S %       | Sb ppm    | Sc ppm    | Sr ppm |
|                    |                          | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1      |
| S052467            |                          | 10        | <1        | 0.07      | <10       | 2.78      | 775       | <1        | 0.05      | 60        | 570       | <2        | 0.27      | <2        | 15        | 45     |
| S052468            |                          | 10        | <1        | 0.07      | <10       | 2.69      | 697       | <1        | 0.06      | 57        | 680       | <2        | 0.01      | <2        | 13        | 55     |
| S052469            |                          | 10        | 1         | 0.12      | <10       | 2.90      | 774       | <1        | 0.05      | 62        | 620       | <2        | 0.02      | <2        | 17        | 67     |
| S052470            |                          | 10        | <1        | 0.11      | <10       | 2.62      | 675       | <1        | 0.05      | 59        | 730       | <2        | 0.01      | <2        | 12        | 86     |
| S052471            |                          | 10        | <1        | 0.11      | <10       | 2.49      | 622       | <1        | 0.05      | 54        | 670       | <2        | 0.01      | <2        | 11        | 51     |
| S052472            |                          | 10        | <1        | 0.11      | <10       | 2.66      | 728       | <1        | 0.05      | 53        | 630       | <2        | 0.02      | 2         | 13        | 63     |
| S052473            |                          | 10        | <1        | 0.14      | <10       | 2.39      | 705       | <1        | 0.05      | 48        | 580       | <2        | 0.02      | <2        | 12        | 73     |
| S052474            |                          | 10        | <1        | 0.06      | <10       | 2.18      | 579       | <1        | 0.05      | 43        | 550       | <2        | 0.01      | <2        | 11        | 52     |
| S052475            |                          | 10        | <1        | 0.10      | <10       | 2.86      | 749       | <1        | 0.05      | 58        | 580       | <2        | 0.03      | <2        | 17        | 103    |
| S052476            |                          | 10        | <1        | 0.11      | <10       | 2.85      | 758       | <1        | 0.05      | 55        | 580       | <2        | 0.01      | <2        | 16        | 56     |
| S052477            |                          | 10        | <1        | 0.08      | <10       | 2.76      | 696       | <1        | 0.05      | 56        | 600       | <2        | 0.01      | <2        | 14        | 50     |
| S052478            |                          | 10        | <1        | 0.11      | <10       | 2.61      | 682       | <1        | 0.05      | 49        | 620       | <2        | <0.01     | <2        | 11        | 45     |
| S052479            |                          | <10       | <1        | 0.40      | <10       | 0.08      | 101       | <1        | 0.02      | 29        | 300       | 5         | 0.24      | <2        | 3         | 11     |
| S052480            |                          | <10       | <1        | 0.30      | <10       | 0.09      | 244       | 2         | 0.02      | 73        | 220       | 20        | 1.77      | 2         | 4         | 23     |
| S052481            |                          | 10        | <1        | 0.01      | <10       | 1.40      | 343       | <1        | 0.06      | 50        | 300       | <2        | 0.21      | <2        | 12        | 9      |
| S052482            |                          | 10        | <1        | 0.02      | <10       | 1.66      | 644       | <1        | 0.05      | 56        | 410       | <2        | 0.23      | <2        | 13        | 38     |
| S052483            |                          | <10       | <1        | 0.18      | 10        | 1.21      | 887       | 1         | 0.04      | 31        | 730       | 9         | 0.18      | <2        | 4         | 118    |
| S052484            |                          | <10       | <1        | 0.16      | 10        | 1.84      | 571       | 1         | 0.04      | 44        | 600       | 8         | 0.09      | <2        | 4         | 105    |
| S052485            |                          | <10       | 1         | 0.18      | 10        | 1.71      | 770       | 1         | 0.04      | 59        | 620       | 8         | 0.16      | <2        | 5         | 99     |
| S052486            |                          | <10       | 1         | 0.16      | 10        | 1.47      | 674       | 1         | 0.04      | 43        | 600       | 7         | 0.25      | <2        | 5         | 105    |
| S052487            |                          | <10       | <1        | 0.14      | <10       | 2.29      | 686       | 1         | 0.03      | 42        | 520       | 6         | 0.10      | <2        | 5         | 131    |
| S052488            |                          | <10       | <1        | 0.14      | <10       | 2.28      | 627       | 1         | 0.04      | 66        | 570       | 4         | 0.10      | <2        | 7         | 125    |
| S052489            |                          | <10       | <1        | 0.18      | 10        | 1.49      | 1130      | 1         | 0.05      | 36        | 890       | 6         | 0.24      | <2        | 6         | 179    |
| S052490            |                          | <10       | <1        | 0.24      | 10        | 1.29      | 1250      | 1         | 0.06      | 32        | 860       | 13        | 0.34      | <2        | 5         | 126    |
| S052491            |                          | <10       | <1        | 0.17      | <10       | 2.38      | 1660      | 1         | 0.07      | 66        | 460       | 6         | 0.38      | 3         | 10        | 219    |
| S052492            |                          | <10       | <1        | 0.19      | <10       | 1.65      | 997       | 2         | 0.06      | 37        | 840       | 4         | 0.67      | <2        | 8         | 151    |
| S052493            |                          | <10       | <1        | 0.17      | <10       | 2.45      | 1110      | 1         | 0.06      | 57        | 490       | 4         | 0.24      | <2        | 11        | 183    |
| S052494            |                          | 10        | <1        | 0.15      | <10       | 2.28      | 1060      | 1         | 0.07      | 60        | 680       | 4         | 0.32      | <2        | 14        | 115    |
| S052495            |                          | 10        | <1        | 0.13      | 10        | 2.13      | 1175      | 1         | 0.08      | 53        | 870       | 3         | 0.39      | <2        | 13        | 164    |
| S052496            |                          | 10        | <1        | 0.11      | <10       | 2.82      | 1115      | <1        | 0.07      | 72        | 590       | 2         | 0.21      | <2        | 17        | 112    |
| S052497            |                          | <10       | <1        | 0.16      | 10        | 0.80      | 446       | 1         | 0.03      | 27        | 510       | 8         | 0.19      | <2        | 3         | 141    |
| S052498            |                          | <10       | <1        | 0.20      | 10        | 0.89      | 576       | 1         | 0.04      | 18        | 500       | 13        | 0.20      | <2        | 2         | 120    |
| S052499            |                          | <10       | <1        | 0.23      | 10        | 1.15      | 365       | 1         | 0.04      | 34        | 640       | 13        | 0.16      | 2         | 3         | 65     |
| S052500            |                          | <10       | <1        | 0.21      | 10        | 1.24      | 375       | 1         | 0.04      | 38        | 680       | 11        | 0.22      | <2        | 3         | 74     |
| S052401            |                          | 10        | <1        | 0.18      | 10        | 2.22      | 628       | 1         | 0.04      | 42        | 600       | 5         | 0.16      | <2        | 7         | 109    |



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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17174156**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Cu- OG46 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        | Cu       |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %        |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.001    |
| S052467            |                                   | <20       | 0.17      | <10       | <10       | 149       | <10       | 74        |          |
| S052468            |                                   | <20       | 0.25      | <10       | <10       | 148       | <10       | 63        |          |
| S052469            |                                   | <20       | 0.16      | <10       | <10       | 166       | <10       | 55        |          |
| S052470            |                                   | <20       | 0.25      | <10       | <10       | 150       | <10       | 59        |          |
| S052471            |                                   | <20       | 0.27      | <10       | <10       | 142       | <10       | 59        |          |
| S052472            |                                   | <20       | 0.23      | <10       | <10       | 139       | <10       | 52        |          |
| S052473            |                                   | <20       | 0.20      | <10       | <10       | 112       | <10       | 51        |          |
| S052474            |                                   | <20       | 0.19      | <10       | <10       | 119       | <10       | 41        |          |
| S052475            |                                   | <20       | 0.14      | <10       | <10       | 138       | <10       | 51        |          |
| S052476            |                                   | <20       | 0.14      | <10       | <10       | 148       | <10       | 55        |          |
| S052477            |                                   | <20       | 0.19      | <10       | <10       | 140       | <10       | 52        |          |
| S052478            |                                   | <20       | 0.22      | <10       | <10       | 147       | <10       | 53        |          |
| S052479            |                                   | <20       | 0.21      | <10       | <10       | 22        | <10       | 8         |          |
| S052480            |                                   | <20       | 0.15      | <10       | <10       | 21        | <10       | 8         |          |
| S052481            |                                   | <20       | 0.33      | <10       | <10       | 175       | <10       | 39        |          |
| S052482            |                                   | <20       | 0.40      | <10       | <10       | 151       | <10       | 58        |          |
| S052483            |                                   | <20       | <0.01     | <10       | <10       | 27        | <10       | 99        |          |
| S052484            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 106       |          |
| S052485            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 101       |          |
| S052486            |                                   | <20       | <0.01     | <10       | <10       | 35        | <10       | 95        |          |
| S052487            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 79        |          |
| S052488            |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 95        |          |
| S052489            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 92        |          |
| S052490            |                                   | <20       | 0.03      | <10       | <10       | 27        | <10       | 93        |          |
| S052491            |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       | 71        |          |
| S052492            |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       | 70        |          |
| S052493            |                                   | <20       | <0.01     | <10       | <10       | 54        | <10       | 85        |          |
| S052494            |                                   | <20       | <0.01     | <10       | <10       | 94        | <10       | 69        |          |
| S052495            |                                   | <20       | <0.01     | <10       | <10       | 92        | <10       | 71        |          |
| S052496            |                                   | <20       | 0.01      | <10       | <10       | 116       | <10       | 79        |          |
| S052497            |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       | 89        |          |
| S052498            |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 77        |          |
| S052499            |                                   | <20       | <0.01     | <10       | <10       | 30        | <10       | 121       |          |
| S052500            |                                   | <20       | <0.01     | <10       | <10       | 33        | <10       | 127       |          |
| S052401            |                                   | <20       | 0.06      | <10       | <10       | 66        | <10       | 97        |          |



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Project: Vault

**CERTIFICATE OF ANALYSIS WH17174156**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
Applies to Method: CRU- 31 CRU- QC LOG- 21 PUL- 31  
PUL- QC SPL- 21 WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Applies to Method: Au- AA24 Cu- OG46 ME- ICP41 ME- OG46



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**Account: MTT**

**CERTIFICATE WH17191285**

Project: Vault

This report is for 13 Rock samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2017.

The following have access to data associated with this certificate:

|              |                |             |
|--------------|----------------|-------------|
| ANDREW CARNE | JOAN MARIACHER | JACK MORTON |
|--------------|----------------|-------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| SCR- 21            | Screen 1kg to 106 to 106um     |
| FND- 03            | Find Reject for Addn Analysis  |
| SPL- 21            | Split sample - riffle splitter |
| PUL- 32            | Pulverize 1000g to 85% < 75 um |

| ANALYTICAL PROCEDURES |                               |            |
|-----------------------|-------------------------------|------------|
| ALS CODE              | DESCRIPTION                   | INSTRUMENT |
| Au- SCR24             | Au Screen FA Double Minus 50g | WST- SIM   |
| Au- AA26              | Ore Grade Au 50g FA AA finish | AAS        |
| Au- AA26D             | Ore Grade Au 50g FA AA Dup    | AAS        |

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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17191285 |
|------------------------------------|

| Sample Description | Method  | Au- SCR24 | Au- SCR24 | Au- SCR24 | Au- SCR24 | Au- SCR24 | Au- SCR24 | Au- AA26 | Au- AA26D |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|
|                    | Analyte | Au Total  | Au (+) F  | Au (-) F  | Au (+) m  | WT. + Fr  | WT. - Fr  | Au       | Au        |
| Units              | LOR     | ppm       | ppm       | ppm       | mg        | g         | g         | ppm      | ppm       |
|                    |         | 0.05      | 0.05      | 0.05      | 0.001     | 0.01      | 0.1       | 0.01     | 0.01      |
| K293127            |         | 0.27      | 0.05      | 0.28      | 0.003     | 58.12     | 923.4     | 0.23     | 0.33      |
| K293130            |         | 0.32      | 0.29      | 0.33      | 0.008     | 27.21     | 663.5     | 0.33     | 0.32      |
| K293143            |         | <0.05     | <0.05     | <0.05     | <0.001    | 39.81     | 953.2     | <0.01    | <0.01     |
| K293144            |         | <0.05     | <0.05     | <0.05     | <0.001    | 54.02     | 407.4     | <0.01    | <0.01     |
| K293145            |         | <0.05     | <0.05     | <0.05     | <0.001    | 59.99     | 897.9     | <0.01    | <0.01     |
| K293147            |         | <0.05     | <0.05     | <0.05     | <0.001    | 29.19     | 503.8     | 0.01     | <0.01     |
| K293148            |         | <0.05     | 0.05      | <0.05     | 0.002     | 41.26     | 975.1     | <0.01    | <0.01     |
| S052454            |         | <0.05     | <0.05     | <0.05     | <0.001    | 35.61     | 474.3     | 0.01     | <0.01     |
| S052456            |         | <0.05     | <0.05     | <0.05     | <0.001    | 56.53     | 927.0     | 0.01     | 0.01      |
| S052457            |         | 0.05      | <0.05     | 0.06      | <0.001    | 8.49      | 749.4     | 0.05     | 0.06      |
| S052479            |         | <0.05     | <0.05     | <0.05     | <0.001    | 10.90     | 790.4     | <0.01    | 0.02      |
| S052480            |         | <0.05     | <0.05     | <0.05     | <0.001    | 16.42     | 742.3     | 0.02     | 0.03      |
| S052481            |         | <0.05     | <0.05     | <0.05     | <0.001    | 20.40     | 907.0     | <0.01    | <0.01     |



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**CERTIFICATE OF ANALYSIS WH17191285**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
FND- 03 SPL- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au- AA26 Au- AA26D Au- SCR24 PUL- 32  
SCR- 21



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**CERTIFICATE WH17192496**

Project: Vault

This report is for 153 Soil samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2017.

The following have access to data associated with this certificate:

|                |  |  |
|----------------|--|--|
| JOAN MARIACHER |  |  |
|----------------|--|--|

| SAMPLE PREPARATION |                                 |
|--------------------|---------------------------------|
| ALS CODE           | DESCRIPTION                     |
| WEI- 21            | Received Sample Weight          |
| LOG- 22            | Sample login - Rcd w/o BarCode  |
| SCR- 41            | Screen to - 180um and save both |

| ANALYTICAL PROCEDURES |                                |            |
|-----------------------|--------------------------------|------------|
| ALS CODE              | DESCRIPTION                    | INSTRUMENT |
| Au- AA24              | Au 50g FA AA finish            | AAS        |
| ME- ICP41             | 35 Element Aqua Regia ICP- AES | ICP- AES   |

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method  | WEI- 21   | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        | Ga        |
| Units              |         | kg        | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         | ppm       |
| LOR                |         | 0.02      | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      | 10        |
| ZZ122501           |         | 0.50      | <0.2      | 3.16      | 6         | 110       | 130       | <0.5      | <2        | 1.22      | <0.5      | 45        | 89        | 128       | 5.99      | 10        |
| ZZ122502           |         | 0.34      | <0.2      | 2.39      | 9         | 120       | 140       | <0.5      | 2         | 1.00      | <0.5      | 30        | 63        | 104       | 4.76      | 10        |
| ZZ122503           |         | 0.34      | <0.2      | 3.32      | 14        | 230       | 170       | <0.5      | <2        | 1.28      | 0.5       | 65        | 89        | 222       | 7.07      | 10        |
| ZZ122504           |         | 0.18      | <0.2      | 1.70      | 11        | 10        | 130       | <0.5      | <2        | 1.03      | <0.5      | 17        | 38        | 132       | 3.31      | 10        |
| ZZ122505           |         | 0.28      | 0.2       | 1.94      | 63        | 10        | 100       | <0.5      | <2        | 1.27      | 0.6       | 40        | 49        | 274       | 5.37      | 10        |
| ZZ122506           |         | 0.43      | <0.2      | 3.94      | 16        | 10        | 100       | <0.5      | 4         | 0.91      | 0.7       | 116       | 121       | 448       | 11.10     | 20        |
| ZZ122507           |         | 0.31      | <0.2      | 4.90      | 123       | 10        | 70        | <0.5      | 3         | 1.56      | <0.5      | 86        | 149       | 334       | 10.35     | 20        |
| ZZ122508           |         | 0.31      | 0.3       | 3.70      | 434       | 10        | 100       | 0.5       | <2        | 1.94      | 0.5       | 65        | 121       | 276       | 8.85      | 10        |
| ZZ122509           |         | 0.22      | <0.2      | 2.76      | 33        | 20        | 180       | <0.5      | 2         | 1.38      | 0.6       | 40        | 57        | 295       | 5.47      | 10        |
| ZZ122510           |         | 0.37      | <0.2      | 3.71      | 35        | 30        | 120       | <0.5      | <2        | 1.63      | 0.5       | 53        | 71        | 452       | 8.18      | 10        |
| ZZ122511           |         | 0.30      | <0.2      | 3.27      | 33        | 20        | 60        | <0.5      | <2        | 1.54      | 0.6       | 53        | 83        | 413       | 7.83      | 10        |
| ZZ122512           |         | 0.24      | <0.2      | 2.67      | 8         | 100       | 320       | <0.5      | <2        | 1.48      | 0.8       | 37        | 44        | 376       | 6.00      | 10        |
| ZZ122513           |         | 0.20      | <0.2      | 3.08      | 13        | 20        | 130       | <0.5      | 2         | 1.08      | <0.5      | 37        | 76        | 189       | 6.25      | 10        |
| ZZ122514           |         | 0.39      | <0.2      | 3.31      | 9         | 40        | 150       | <0.5      | <2        | 1.16      | 0.5       | 47        | 93        | 194       | 6.47      | 10        |
| ZZ122515           |         | 0.27      | <0.2      | 4.27      | 11        | 10        | 50        | <0.5      | <2        | 1.77      | <0.5      | 58        | 151       | 226       | 7.08      | 10        |
| ZZ122516           |         | 0.55      | <0.2      | 2.25      | 7         | 60        | 50        | <0.5      | 2         | 0.96      | <0.5      | 30        | 59        | 328       | 4.84      | 10        |
| ZZ122517           |         | 0.37      | <0.2      | 2.34      | 11        | 10        | 160       | <0.5      | <2        | 1.00      | <0.5      | 28        | 54        | 132       | 4.27      | 10        |
| ZZ122518           |         | 0.20      | <0.2      | 1.50      | 9         | 10        | 120       | <0.5      | <2        | 0.82      | <0.5      | 15        | 31        | 51        | 3.14      | 10        |
| ZZ122519           |         | 0.27      | <0.2      | 3.10      | 5         | 10        | 50        | <0.5      | <2        | 1.35      | <0.5      | 34        | 62        | 148       | 5.68      | 10        |
| ZZ122520           |         | 0.21      | <0.2      | 2.27      | 6         | 40        | 80        | <0.5      | <2        | 0.92      | <0.5      | 22        | 39        | 119       | 4.13      | 10        |
| ZZ122521           |         | 0.24      | <0.2      | 3.35      | 11        | 10        | 80        | <0.5      | <2        | 1.30      | <0.5      | 35        | 74        | 183       | 5.87      | 10        |
| ZZ122522           |         | 0.31      | <0.2      | 3.05      | 3         | 20        | 60        | <0.5      | 2         | 2.50      | <0.5      | 35        | 78        | 158       | 5.51      | 10        |
| ZZ122523           |         | 0.25      | <0.2      | 3.14      | 5         | 20        | 140       | <0.5      | <2        | 1.07      | <0.5      | 32        | 92        | 183       | 5.93      | 10        |
| ZZ122524           |         | 0.20      | <0.2      | 1.49      | 9         | <10       | 110       | <0.5      | <2        | 0.66      | <0.5      | 16        | 32        | 59        | 2.96      | 10        |
| ZZ122525           |         | 0.17      | <0.2      | 2.54      | 16        | 10        | 100       | 0.5       | <2        | 0.98      | <0.5      | 25        | 52        | 170       | 4.66      | 10        |
| ZZ122526           |         | 0.36      | <0.2      | 3.15      | 3         | 10        | 30        | <0.5      | <2        | 1.59      | <0.5      | 32        | 94        | 114       | 5.08      | 10        |
| ZZ122527           |         | 0.47      | <0.2      | 4.46      | 2         | 10        | 20        | <0.5      | <2        | 1.72      | <0.5      | 49        | 96        | 114       | 6.73      | 10        |
| ZZ122528           |         | 0.35      | <0.2      | 2.81      | 6         | 20        | 150       | <0.5      | <2        | 4.38      | <0.5      | 40        | 76        | 330       | 6.27      | 10        |
| ZZ122529           |         | 0.32      | <0.2      | 3.55      | 7         | 10        | 60        | <0.5      | 2         | 1.66      | <0.5      | 34        | 94        | 174       | 5.24      | 10        |
| ZZ122530           |         | 0.12      | <0.2      | 2.31      | 18        | 10        | 90        | <0.5      | <2        | 1.02      | <0.5      | 22        | 49        | 58        | 4.02      | 10        |
| ZZ122531           |         | 0.16      | <0.2      | 1.95      | 12        | 10        | 90        | <0.5      | <2        | 1.02      | <0.5      | 18        | 43        | 53        | 3.53      | 10        |
| ZZ122532           |         | 0.37      | <0.2      | 3.13      | 4         | 10        | 30        | <0.5      | 2         | 1.58      | <0.5      | 30        | 75        | 86        | 5.62      | 10        |
| ZZ122533           |         | 0.49      | <0.2      | 3.78      | 4         | 10        | 30        | <0.5      | <2        | 1.59      | <0.5      | 37        | 84        | 112       | 6.54      | 10        |
| ZZ122534           |         | 0.44      | <0.2      | 3.26      | 4         | 10        | 20        | <0.5      | <2        | 1.39      | <0.5      | 36        | 115       | 174       | 5.02      | 10        |
| ZZ122535           |         | 0.22      | <0.2      | 2.69      | 16        | 20        | 80        | <0.5      | <2        | 1.05      | <0.5      | 26        | 66        | 83        | 4.79      | 10        |
| ZZ122536           |         | 0.23      | <0.2      | 2.57      | 11        | 10        | 80        | <0.5      | <2        | 1.20      | <0.5      | 27        | 52        | 107       | 4.26      | 10        |
| ZZ122537           |         | 0.25      | <0.2      | 4.07      | 2         | <10       | 10        | <0.5      | <2        | 0.90      | <0.5      | 37        | 121       | 254       | 6.36      | 10        |
| ZZ122538           |         | 0.18      | <0.2      | 2.43      | 18        | <10       | 100       | <0.5      | <2        | 0.70      | <0.5      | 24        | 50        | 126       | 4.22      | 10        |
| ZZ122539           |         | 0.37      | <0.2      | 3.80      | 4         | 10        | 40        | <0.5      | 2         | 1.72      | <0.5      | 38        | 49        | 67        | 6.31      | 10        |
| ZZ122540           |         | 0.21      | <0.2      | 2.56      | 12        | 10        | 110       | <0.5      | <2        | 1.10      | <0.5      | 22        | 46        | 136       | 4.23      | 10        |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Hg ppm    | K %       | La ppm    | Mg %      | Mn ppm    | Mo ppm    | Na %      | Ni ppm    | P ppm     | Pb ppm    | S %       | Sb ppm    | Sc ppm    | Sr ppm    | Th ppm    |
|                    |                          | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20        |
| ZZ122501           |                          | 1         | 0.05      | <10       | 2.85      | 1105      | 1         | 0.01      | 73        | 620       | 4         | 0.02      | <2        | 12        | 33        | <20       |
| ZZ122502           |                          | 1         | 0.06      | 10        | 1.86      | 793       | 1         | 0.02      | 55        | 750       | 7         | 0.04      | <2        | 8         | 33        | <20       |
| ZZ122503           |                          | 1         | 0.06      | <10       | 2.84      | 1390      | 1         | 0.01      | 70        | 600       | 6         | 0.03      | <2        | 15        | 32        | <20       |
| ZZ122504           |                          | 1         | 0.06      | 10        | 1.03      | 513       | 1         | 0.03      | 33        | 790       | 6         | 0.10      | <2        | 5         | 35        | <20       |
| ZZ122505           |                          | <1        | 0.05      | 10        | 1.19      | 1325      | 2         | 0.03      | 56        | 810       | 9         | 0.12      | 2         | 11        | 39        | <20       |
| ZZ122506           |                          | 2         | 0.05      | <10       | 3.89      | 1605      | 2         | 0.01      | 131       | 670       | 7         | 0.23      | <2        | 18        | 22        | <20       |
| ZZ122507           |                          | 1         | 0.06      | <10       | 4.22      | 1420      | 1         | 0.01      | 117       | 700       | 7         | 0.05      | <2        | 21        | 30        | <20       |
| ZZ122508           |                          | 1         | 0.05      | 10        | 3.50      | 1205      | 1         | 0.01      | 110       | 710       | 7         | 0.10      | <2        | 22        | 57        | <20       |
| ZZ122509           |                          | <1        | 0.05      | 10        | 2.07      | 996       | 2         | 0.02      | 65        | 620       | 5         | 0.08      | <2        | 10        | 55        | <20       |
| ZZ122510           |                          | 1         | 0.05      | <10       | 3.35      | 1560      | 1         | 0.01      | 64        | 640       | 5         | 0.04      | <2        | 21        | 30        | <20       |
| ZZ122511           |                          | <1        | 0.06      | <10       | 3.09      | 1365      | 1         | 0.01      | 71        | 580       | 4         | 0.04      | <2        | 16        | 32        | <20       |
| ZZ122512           |                          | 1         | 0.06      | <10       | 2.14      | 1010      | 1         | 0.01      | 51        | 580       | 3         | 0.04      | <2        | 12        | 25        | <20       |
| ZZ122513           |                          | 1         | 0.06      | <10       | 2.79      | 1110      | 1         | 0.01      | 68        | 460       | 2         | 0.04      | <2        | 11        | 39        | <20       |
| ZZ122514           |                          | 1         | 0.06      | <10       | 2.99      | 1140      | 1         | 0.01      | 78        | 630       | 3         | 0.04      | <2        | 13        | 34        | <20       |
| ZZ122515           |                          | <1        | 0.05      | <10       | 3.43      | 1390      | 1         | 0.01      | 90        | 470       | 4         | 0.04      | <2        | 18        | 33        | <20       |
| ZZ122516           |                          | <1        | 0.06      | 10        | 1.96      | 751       | 1         | 0.02      | 61        | 790       | 4         | 0.03      | <2        | 8         | 34        | <20       |
| ZZ122517           |                          | <1        | 0.07      | 10        | 1.64      | 807       | 1         | 0.03      | 57        | 940       | 6         | 0.05      | <2        | 7         | 40        | <20       |
| ZZ122518           |                          | <1        | 0.05      | 10        | 0.78      | 474       | 2         | 0.03      | 30        | 1090      | 5         | 0.09      | <2        | 3         | 37        | <20       |
| ZZ122519           |                          | 1         | 0.05      | <10       | 2.70      | 1070      | 1         | 0.02      | 58        | 510       | 3         | 0.03      | <2        | 12        | 33        | <20       |
| ZZ122520           |                          | <1        | 0.05      | 10        | 1.70      | 652       | 1         | 0.02      | 44        | 680       | 4         | 0.03      | <2        | 7         | 34        | <20       |
| ZZ122521           |                          | <1        | 0.06      | 10        | 2.75      | 1075      | 2         | 0.02      | 70        | 700       | 6         | 0.04      | <2        | 14        | 38        | <20       |
| ZZ122522           |                          | <1        | 0.05      | <10       | 3.26      | 1030      | 1         | 0.01      | 72        | 560       | <2        | 0.01      | <2        | 12        | 34        | <20       |
| ZZ122523           |                          | 1         | 0.06      | 10        | 2.64      | 1305      | 1         | 0.01      | 67        | 660       | 4         | 0.04      | <2        | 15        | 26        | <20       |
| ZZ122524           |                          | <1        | 0.05      | 10        | 0.70      | 553       | 2         | 0.02      | 29        | 900       | 5         | 0.11      | <2        | 3         | 34        | <20       |
| ZZ122525           |                          | <1        | 0.09      | 10        | 1.46      | 927       | 3         | 0.02      | 57        | 840       | 7         | 0.08      | <2        | 8         | 37        | <20       |
| ZZ122526           |                          | 1         | 0.04      | <10       | 2.80      | 783       | 1         | 0.01      | 61        | 650       | <2        | 0.02      | <2        | 12        | 93        | <20       |
| ZZ122527           |                          | <1        | 0.09      | <10       | 4.14      | 1160      | 1         | 0.01      | 90        | 620       | 3         | 0.01      | <2        | 21        | 40        | <20       |
| ZZ122528           |                          | <1        | 0.05      | 10        | 2.61      | 2850      | 1         | 0.01      | 61        | 740       | 4         | 0.04      | <2        | 22        | 50        | <20       |
| ZZ122529           |                          | <1        | 0.06      | 10        | 2.80      | 1140      | 1         | 0.01      | 82        | 700       | 4         | 0.02      | <2        | 16        | 43        | <20       |
| ZZ122530           |                          | <1        | 0.09      | 10        | 1.22      | 849       | 3         | 0.01      | 49        | 1000      | 7         | 0.11      | <2        | 4         | 34        | <20       |
| ZZ122531           |                          | <1        | 0.18      | 10        | 1.07      | 747       | 2         | 0.01      | 40        | 1260      | 7         | 0.12      | <2        | 3         | 33        | <20       |
| ZZ122532           |                          | 1         | 0.11      | <10       | 2.50      | 835       | 1         | 0.01      | 65        | 920       | <2        | 0.05      | <2        | 13        | 24        | <20       |
| ZZ122533           |                          | <1        | 0.05      | <10       | 3.46      | 1315      | 1         | 0.01      | 77        | 570       | <2        | 0.03      | <2        | 22        | 18        | <20       |
| ZZ122534           |                          | <1        | 0.06      | <10       | 2.92      | 926       | <1        | 0.01      | 87        | 580       | 2         | 0.02      | <2        | 11        | 42        | <20       |
| ZZ122535           |                          | <1        | 0.09      | 10        | 1.62      | 851       | 2         | 0.01      | 59        | 770       | 3         | 0.08      | <2        | 7         | 37        | <20       |
| ZZ122536           |                          | <1        | 0.06      | 10        | 1.70      | 868       | 2         | 0.02      | 60        | 750       | 5         | 0.09      | <2        | 8         | 38        | <20       |
| ZZ122537           |                          | 1         | 0.05      | <10       | 3.88      | 1265      | 1         | 0.01      | 83        | 490       | 2         | 0.01      | <2        | 13        | 35        | <20       |
| ZZ122538           |                          | <1        | 0.05      | 10        | 1.46      | 879       | 2         | 0.02      | 58        | 640       | 6         | 0.07      | <2        | 7         | 30        | <20       |
| ZZ122539           |                          | <1        | 0.04      | <10       | 3.50      | 1315      | <1        | 0.01      | 65        | 430       | <2        | 0.02      | <2        | 17        | 19        | <20       |
| ZZ122540           |                          | <1        | 0.05      | 10        | 1.37      | 1185      | 2         | 0.03      | 54        | 720       | 9         | 0.08      | <2        | 8         | 36        | <20       |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24  |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Ti<br>%   | Ti<br>ppm | U<br>ppm  | V<br>ppm  | W<br>ppm  | Zn<br>ppm | Au<br>ppm |
|                    |                                   | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005     |
| ZZ122501           |                                   | 0.22      | <10       | <10       | 162       | <10       | 80        | 0.022     |
| ZZ122502           |                                   | 0.17      | <10       | <10       | 121       | <10       | 79        | 0.012     |
| ZZ122503           |                                   | 0.26      | <10       | <10       | 187       | <10       | 84        | 0.023     |
| ZZ122504           |                                   | 0.13      | <10       | <10       | 80        | <10       | 72        | 0.019     |
| ZZ122505           |                                   | 0.08      | <10       | <10       | 93        | <10       | 87        | 0.123     |
| ZZ122506           |                                   | 0.52      | <10       | <10       | 262       | <10       | 115       | 0.014     |
| ZZ122507           |                                   | 0.34      | <10       | <10       | 248       | <10       | 127       | 0.069     |
| ZZ122508           |                                   | 0.25      | <10       | <10       | 194       | <10       | 111       | 1.015     |
| ZZ122509           |                                   | 0.22      | <10       | <10       | 132       | <10       | 81        | 0.031     |
| ZZ122510           |                                   | 0.46      | <10       | <10       | 238       | <10       | 118       | 0.511     |
| ZZ122511           |                                   | 0.45      | <10       | <10       | 205       | <10       | 116       | 0.058     |
| ZZ122512           |                                   | 0.48      | <10       | <10       | 184       | <10       | 114       | 0.044     |
| ZZ122513           |                                   | 0.40      | <10       | <10       | 163       | <10       | 105       | 0.033     |
| ZZ122514           |                                   | 0.22      | <10       | <10       | 164       | <10       | 81        | 0.020     |
| ZZ122515           |                                   | 0.24      | <10       | <10       | 193       | <10       | 86        | 0.023     |
| ZZ122516           |                                   | 0.23      | <10       | <10       | 123       | <10       | 92        | 0.019     |
| ZZ122517           |                                   | 0.16      | <10       | <10       | 100       | <10       | 89        | 0.012     |
| ZZ122518           |                                   | 0.11      | <10       | <10       | 79        | <10       | 76        | 0.015     |
| ZZ122519           |                                   | 0.31      | <10       | <10       | 159       | <10       | 90        | 0.011     |
| ZZ122520           |                                   | 0.16      | <10       | <10       | 101       | <10       | 68        | 0.043     |
| ZZ122521           |                                   | 0.27      | <10       | <10       | 143       | <10       | 107       | 0.022     |
| ZZ122522           |                                   | 0.34      | <10       | <10       | 144       | <10       | 79        | 0.012     |
| ZZ122523           |                                   | 0.19      | <10       | <10       | 151       | <10       | 91        | 0.019     |
| ZZ122524           |                                   | 0.09      | <10       | <10       | 68        | <10       | 69        | 0.007     |
| ZZ122525           |                                   | 0.17      | <10       | <10       | 108       | <10       | 103       | 0.009     |
| ZZ122526           |                                   | 0.36      | <10       | <10       | 124       | <10       | 101       | 0.010     |
| ZZ122527           |                                   | 0.21      | <10       | <10       | 146       | <10       | 95        | 0.013     |
| ZZ122528           |                                   | 0.35      | <10       | <10       | 149       | <10       | 94        | 0.014     |
| ZZ122529           |                                   | 0.25      | <10       | <10       | 135       | <10       | 87        | 0.009     |
| ZZ122530           |                                   | 0.11      | <10       | <10       | 94        | <10       | 111       | 0.010     |
| ZZ122531           |                                   | 0.11      | <10       | <10       | 85        | <10       | 93        | 0.006     |
| ZZ122532           |                                   | 0.46      | <10       | <10       | 160       | <10       | 81        | 0.009     |
| ZZ122533           |                                   | 0.39      | <10       | <10       | 186       | <10       | 123       | 0.011     |
| ZZ122534           |                                   | 0.29      | <10       | <10       | 115       | <10       | 77        | 0.006     |
| ZZ122535           |                                   | 0.22      | <10       | <10       | 117       | <10       | 104       | 0.008     |
| ZZ122536           |                                   | 0.18      | <10       | <10       | 95        | <10       | 89        | 0.007     |
| ZZ122537           |                                   | 0.26      | <10       | <10       | 139       | <10       | 106       | 0.022     |
| ZZ122538           |                                   | 0.16      | <10       | <10       | 97        | <10       | 94        | 0.013     |
| ZZ122539           |                                   | 0.36      | <10       | <10       | 147       | <10       | 81        | 0.012     |
| ZZ122540           |                                   | 0.19      | <10       | <10       | 101       | <10       | 94        | 0.015     |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 LIMITED  
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| CERTIFICATE OF ANALYSIS WH17192496 |
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| Method Analyte Units LOR | WEI- 21 Recvd Wt. kg | ME- ICP41 Ag ppm | ME- ICP41 Al % | ME- ICP41 As ppm | ME- ICP41 B ppm | ME- ICP41 Ba ppm | ME- ICP41 Be ppm | ME- ICP41 Bi ppm | ME- ICP41 Ca % | ME- ICP41 Cd ppm | ME- ICP41 Co ppm | ME- ICP41 Cr ppm | ME- ICP41 Cu ppm | ME- ICP41 Fe % | ME- ICP41 Ga ppm |
|--------------------------|----------------------|------------------|----------------|------------------|-----------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|------------------|
| Sample Description       | 0.02                 | 0.2              | 0.01           | 2                | 10              | 10               | 0.5              | 2                | 0.01           | 0.5              | 1                | 1                | 1                | 0.01           | 10               |
| ZZ122541                 | 0.55                 | <0.2             | 2.92           | 3                | 10              | 20               | <0.5             | <2               | 1.52           | <0.5             | 40               | 81               | 288              | 5.33           | 10               |
| ZZ122542                 | 0.43                 | <0.2             | 3.42           | 4                | 160             | 240              | <0.5             | <2               | 1.46           | <0.5             | 38               | 71               | 180              | 6.70           | 10               |
| ZZ122543                 | 0.17                 | <0.2             | 2.43           | 13               | 10              | 150              | <0.5             | <2               | 1.03           | <0.5             | 26               | 59               | 124              | 4.47           | 10               |
| ZZ122544                 | 0.47                 | <0.2             | 2.85           | 8                | 10              | 80               | <0.5             | <2               | 0.99           | <0.5             | 31               | 51               | 141              | 4.59           | 10               |
| ZZ122545                 | 0.44                 | <0.2             | 4.39           | 24               | 10              | 30               | <0.5             | <2               | 5.53           | <0.5             | 39               | 87               | 134              | 6.79           | 10               |
| ZZ122546                 | 0.25                 | <0.2             | 3.04           | 20               | 20              | 80               | <0.5             | <2               | 1.12           | <0.5             | 37               | 80               | 201              | 5.93           | 10               |
| ZZ122547                 | 0.17                 | <0.2             | 2.27           | 14               | <10             | 150              | <0.5             | <2               | 0.80           | <0.5             | 23               | 55               | 163              | 4.27           | 10               |
| ZZ122548                 | 0.23                 | <0.2             | 2.34           | 15               | <10             | 120              | <0.5             | <2               | 0.96           | <0.5             | 27               | 72               | 92               | 4.80           | 10               |
| ZZ122549                 | 0.15                 | <0.2             | 1.10           | 11               | <10             | 70               | <0.5             | <2               | 0.49           | <0.5             | 11               | 27               | 49               | 2.15           | <10              |
| ZZ122550                 | 0.33                 | 0.2              | 1.90           | 18               | <10             | 120              | <0.5             | <2               | 1.09           | <0.5             | 19               | 65               | 93               | 4.00           | 10               |
| ZZ122551                 | 0.16                 | <0.2             | 2.06           | 17               | <10             | 100              | <0.5             | <2               | 1.10           | <0.5             | 23               | 74               | 111              | 4.15           | 10               |
| ZZ122552                 | 0.26                 | 0.2              | 1.84           | 24               | <10             | 100              | <0.5             | <2               | 1.13           | <0.5             | 27               | 63               | 107              | 4.63           | <10              |
| ZZ122553                 | 0.12                 | <0.2             | 1.92           | 17               | <10             | 130              | <0.5             | <2               | 1.27           | <0.5             | 26               | 61               | 115              | 4.42           | 10               |
| ZZ122554                 | 0.28                 | <0.2             | 2.51           | 36               | <10             | 50               | <0.5             | <2               | 2.09           | 0.5              | 33               | 126              | 118              | 5.48           | 10               |
| ZZ122555                 | 0.15                 | 0.2              | 1.99           | 11               | <10             | 170              | <0.5             | <2               | 1.89           | <0.5             | 28               | 55               | 124              | 4.35           | 10               |
| ZZ122556                 | 0.21                 | <0.2             | 1.65           | 25               | <10             | 150              | <0.5             | <2               | 0.85           | 0.5              | 21               | 55               | 65               | 3.63           | <10              |
| ZZ122557                 | 0.16                 | 0.6              | 1.33           | 46               | <10             | 80               | <0.5             | <2               | 1.12           | 0.5              | 26               | 48               | 113              | 4.83           | <10              |
| ZZ122558                 | 0.20                 | 0.5              | 1.25           | 36               | <10             | 120              | <0.5             | 2                | 1.39           | 0.5              | 22               | 38               | 104              | 4.18           | <10              |
| ZZ122559                 | 0.13                 | 0.5              | 1.16           | 57               | 10              | 70               | <0.5             | <2               | 1.83           | 0.6              | 22               | 45               | 100              | 4.32           | <10              |
| ZZ122560                 | 0.24                 | 0.9              | 1.32           | 71               | <10             | 70               | <0.5             | 3                | 1.20           | 0.5              | 34               | 61               | 128              | 5.73           | <10              |
| ZZ122561                 | 0.46                 | 0.7              | 1.51           | 67               | <10             | 50               | <0.5             | 3                | 0.93           | <0.5             | 31               | 65               | 139              | 5.67           | <10              |
| ZZ122562                 | 0.20                 | 1.0              | 1.33           | 68               | <10             | 70               | <0.5             | <2               | 1.21           | 0.6              | 31               | 56               | 131              | 5.29           | <10              |
| ZZ122563                 | 0.30                 | 1.0              | 1.39           | 66               | <10             | 70               | <0.5             | <2               | 1.43           | 0.7              | 33               | 46               | 144              | 5.38           | <10              |
| ZZ122564                 | 0.24                 | 0.8              | 1.43           | 71               | <10             | 70               | <0.5             | <2               | 1.12           | 0.6              | 30               | 42               | 141              | 5.70           | <10              |
| ZZ122565                 | 0.28                 | 0.7              | 1.59           | 66               | <10             | 70               | <0.5             | <2               | 1.15           | 0.5              | 29               | 79               | 137              | 5.42           | <10              |
| ZZ122566                 | 0.22                 | 0.6              | 1.39           | 56               | <10             | 50               | <0.5             | <2               | 0.75           | 0.6              | 32               | 19               | 119              | 6.18           | <10              |
| ZZ122567                 | 0.29                 | 0.3              | 2.90           | 56               | <10             | 60               | <0.5             | <2               | 1.87           | 0.7              | 42               | 194              | 158              | 6.15           | 10               |
| ZZ122568                 | 0.34                 | 0.7              | 0.74           | 113              | <10             | 30               | <0.5             | 3                | 2.07           | 0.7              | 33               | 26               | 115              | 6.29           | <10              |
| ZZ122569                 | 0.24                 | 1.4              | 0.28           | 163              | <10             | 30               | <0.5             | 2                | 0.86           | 0.5              | 46               | 8                | 187              | 6.74           | <10              |
| ZZ122570                 | 0.24                 | 0.6              | 1.75           | 79               | <10             | 60               | <0.5             | <2               | 0.92           | 0.6              | 34               | 68               | 159              | 6.38           | <10              |
| ZZ122571                 | 0.24                 | 0.4              | 1.14           | 63               | <10             | 50               | <0.5             | <2               | 1.22           | <0.5             | 23               | 35               | 105              | 4.78           | <10              |
| ZZ122572                 | 0.26                 | 1.0              | 1.18           | 98               | <10             | 40               | <0.5             | <2               | 1.07           | 0.6              | 29               | 28               | 125              | 5.92           | <10              |
| ZZ122573                 | 0.37                 | 0.6              | 1.33           | 87               | <10             | 50               | <0.5             | <2               | 1.17           | 0.5              | 32               | 47               | 144              | 5.79           | <10              |
| ZZ122574                 | 0.18                 | 0.4              | 1.48           | 91               | <10             | 50               | <0.5             | <2               | 1.01           | 0.5              | 28               | 52               | 124              | 5.60           | <10              |
| ZZ122575                 | 0.26                 | 0.4              | 1.91           | 89               | <10             | 60               | <0.5             | 2                | 0.88           | 0.5              | 30               | 98               | 120              | 5.67           | <10              |
| ZZ122576                 | 0.21                 | 1.0              | 1.14           | 112              | <10             | 70               | <0.5             | <2               | 1.50           | 0.6              | 33               | 41               | 158              | 6.42           | <10              |
| ZZ122577                 | 0.23                 | 0.4              | 1.79           | 48               | <10             | 80               | <0.5             | <2               | 0.85           | <0.5             | 26               | 106              | 112              | 5.15           | <10              |
| ZZ122578                 | 0.22                 | 0.4              | 2.21           | 62               | <10             | 90               | <0.5             | <2               | 0.85           | <0.5             | 25               | 79               | 119              | 5.06           | 10               |
| ZZ122579                 | 0.20                 | <0.2             | 2.70           | 23               | <10             | 120              | <0.5             | <2               | 1.48           | 0.5              | 31               | 193              | 120              | 4.90           | 10               |
| ZZ122580                 | 0.23                 | <0.2             | 2.22           | 27               | <10             | 60               | <0.5             | <2               | 4.12           | 0.6              | 26               | 162              | 90               | 4.41           | 10               |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17192496 |
|------------------------------------|

| Sample Description | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr        | Th        |           |
|                    | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       |           |
|                    | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20        |           |
| ZZ122541           | <1        | 0.03      | <10       | 3.16      | 1050      | <1        | <0.01     | 76        | 480       | <2        | 0.02      | 2         | 14        | 128       | <20       |           |
| ZZ122542           | <1        | 0.05      | <10       | 3.43      | 1190      | <1        | 0.01      | 65        | 540       | 3         | 0.02      | <2        | 18        | 24        | <20       |           |
| ZZ122543           | 1         | 0.05      | 10        | 1.77      | 1145      | 2         | 0.02      | 54        | 660       | 6         | 0.07      | 3         | 10        | 38        | <20       |           |
| ZZ122544           | <1        | 0.09      | 10        | 2.46      | 1280      | 2         | 0.01      | 64        | 1140      | 4         | 0.06      | <2        | 10        | 60        | <20       |           |
| ZZ122545           | <1        | 0.05      | 10        | 2.39      | 1250      | 5         | 0.01      | 84        | 1440      | 7         | 0.02      | <2        | 19        | 65        | <20       |           |
| ZZ122546           | <1        | 0.06      | 10        | 2.08      | 1005      | 2         | 0.02      | 66        | 660       | 4         | 0.07      | <2        | 17        | 27        | <20       |           |
| ZZ122547           | <1        | 0.06      | 10        | 1.31      | 916       | 2         | 0.02      | 55        | 730       | 5         | 0.06      | <2        | 7         | 30        | <20       |           |
| ZZ122548           | <1        | 0.06      | 10        | 1.38      | 935       | 3         | 0.01      | 51        | 780       | 7         | 0.07      | <2        | 7         | 34        | <20       |           |
| ZZ122549           | <1        | 0.07      | <10       | 0.59      | 350       | 1         | 0.02      | 23        | 620       | 4         | 0.07      | <2        | 2         | 21        | <20       |           |
| ZZ122550           | <1        | 0.07      | 10        | 1.24      | 911       | 2         | 0.01      | 52        | 890       | 8         | 0.11      | 2         | 6         | 43        | <20       |           |
| ZZ122551           | <1        | 0.07      | 10        | 1.55      | 999       | 2         | 0.01      | 51        | 860       | 8         | 0.10      | <2        | 7         | 42        | <20       |           |
| ZZ122552           | <1        | 0.07      | 10        | 1.31      | 1065      | 2         | 0.01      | 54        | 830       | 9         | 0.10      | <2        | 8         | 46        | <20       |           |
| ZZ122553           | <1        | 0.08      | 10        | 1.60      | 876       | 3         | 0.01      | 43        | 600       | 11        | 0.13      | <2        | 7         | 48        | <20       |           |
| ZZ122554           | <1        | 0.05      | 10        | 2.62      | 738       | 2         | 0.01      | 83        | 700       | 9         | 0.19      | <2        | 8         | 59        | <20       |           |
| ZZ122555           | <1        | 0.13      | 10        | 1.74      | 972       | 3         | 0.01      | 38        | 700       | 8         | 0.14      | <2        | 10        | 60        | <20       |           |
| ZZ122556           | <1        | 0.06      | 10        | 1.00      | 598       | 2         | 0.02      | 49        | 750       | 9         | 0.08      | 2         | 5         | 43        | <20       |           |
| ZZ122557           | <1        | 0.06      | 10        | 1.06      | 960       | 2         | 0.01      | 45        | 750       | 18        | 0.13      | <2        | 7         | 52        | <20       |           |
| ZZ122558           | 1         | 0.06      | 10        | 0.89      | 1120      | 2         | 0.01      | 39        | 860       | 13        | 0.13      | <2        | 5         | 57        | <20       |           |
| ZZ122559           | <1        | 0.05      | 10        | 0.85      | 864       | 2         | 0.01      | 54        | 840       | 16        | 0.17      | <2        | 5         | 67        | <20       |           |
| ZZ122560           | <1        | 0.06      | 10        | 1.19      | 1230      | 2         | 0.01      | 54        | 940       | 15        | 0.20      | <2        | 8         | 62        | <20       |           |
| ZZ122561           | 1         | 0.04      | 10        | 1.17      | 879       | 2         | 0.01      | 62        | 850       | 16        | 0.09      | <2        | 9         | 36        | <20       |           |
| ZZ122562           | 1         | 0.05      | 10        | 1.01      | 1075      | 2         | 0.01      | 59        | 790       | 23        | 0.15      | <2        | 7         | 52        | <20       |           |
| ZZ122563           | <1        | 0.05      | 10        | 1.09      | 1105      | 2         | 0.01      | 62        | 860       | 19        | 0.14      | <2        | 8         | 54        | <20       |           |
| ZZ122564           | <1        | 0.04      | 10        | 1.04      | 1030      | 2         | 0.01      | 53        | 840       | 22        | 0.17      | <2        | 7         | 45        | <20       |           |
| ZZ122565           | 1         | 0.04      | 10        | 1.25      | 942       | 2         | 0.01      | 65        | 680       | 16        | 0.14      | <2        | 7         | 43        | <20       |           |
| ZZ122566           | <1        | 0.03      | 10        | 0.94      | 1165      | 5         | <0.01     | 59        | 710       | 39        | 0.22      | <2        | 5         | 30        | <20       |           |
| ZZ122567           | <1        | 0.06      | <10       | 3.29      | 865       | 3         | 0.01      | 121       | 770       | 12        | 0.11      | <2        | 11        | 51        | <20       |           |
| ZZ122568           | <1        | 0.04      | <10       | 0.86      | 627       | 3         | 0.01      | 85        | 780       | 22        | 0.59      | <2        | 5         | 64        | <20       |           |
| ZZ122569           | 1         | 0.04      | <10       | 0.66      | 928       | 6         | 0.01      | 74        | 990       | 23        | 1.97      | <2        | 4         | 50        | <20       |           |
| ZZ122570           | 1         | 0.04      | 10        | 1.35      | 864       | 4         | 0.01      | 79        | 840       | 21        | 0.16      | <2        | 7         | 42        | <20       |           |
| ZZ122571           | <1        | 0.04      | 10        | 0.75      | 710       | 2         | 0.01      | 54        | 830       | 15        | 0.14      | <2        | 5         | 48        | <20       |           |
| ZZ122572           | <1        | 0.05      | 10        | 0.77      | 910       | 3         | 0.01      | 66        | 810       | 41        | 0.19      | 3         | 6         | 50        | <20       |           |
| ZZ122573           | 1         | 0.04      | 10        | 1.03      | 1180      | 2         | 0.01      | 77        | 860       | 22        | 0.17      | <2        | 8         | 45        | <20       |           |
| ZZ122574           | 1         | 0.04      | 10        | 1.10      | 861       | 3         | 0.01      | 62        | 640       | 22        | 0.16      | <2        | 6         | 33        | <20       |           |
| ZZ122575           | <1        | 0.04      | 10        | 1.60      | 806       | 3         | 0.01      | 72        | 660       | 21        | 0.14      | <2        | 9         | 36        | <20       |           |
| ZZ122576           | <1        | 0.04      | 10        | 0.95      | 1170      | 2         | 0.01      | 64        | 810       | 19        | 0.46      | 4         | 8         | 58        | <20       |           |
| ZZ122577           | 1         | 0.05      | 10        | 1.34      | 1065      | 3         | <0.01     | 67        | 620       | 15        | 0.13      | 2         | 9         | 36        | <20       |           |
| ZZ122578           | <1        | 0.06      | 10        | 1.61      | 753       | 2         | 0.01      | 55        | 700       | 18        | 0.06      | <2        | 8         | 39        | <20       |           |
| ZZ122579           | 1         | 0.07      | 10        | 2.96      | 1015      | 2         | 0.01      | 89        | 740       | 8         | 0.09      | <2        | 12        | 38        | <20       |           |
| ZZ122580           | <1        | 0.04      | 10        | 3.93      | 680       | 1         | 0.01      | 82        | 770       | 9         | 0.08      | <2        | 9         | 67        | <20       |           |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Ti %      | Ti ppm    | U ppm     | V ppm     | W ppm     | Zn ppm    | Au ppm   |
|                    |                          | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005    |
| ZZ122541           |                          | 0.46      | <10       | <10       | 130       | <10       | 92        | 0.036    |
| ZZ122542           |                          | 0.27      | <10       | <10       | 195       | <10       | 81        | 0.028    |
| ZZ122543           |                          | 0.22      | <10       | <10       | 109       | <10       | 88        | 0.010    |
| ZZ122544           |                          | 0.16      | <10       | <10       | 85        | <10       | 103       | 0.006    |
| ZZ122545           |                          | 0.24      | <10       | <10       | 153       | <10       | 88        | 0.007    |
| ZZ122546           |                          | 0.28      | <10       | <10       | 149       | <10       | 94        | 0.011    |
| ZZ122547           |                          | 0.15      | <10       | <10       | 98        | <10       | 85        | 0.010    |
| ZZ122548           |                          | 0.20      | <10       | <10       | 114       | <10       | 88        | 0.006    |
| ZZ122549           |                          | 0.08      | <10       | <10       | 47        | <10       | 45        | 0.010    |
| ZZ122550           |                          | 0.05      | <10       | <10       | 70        | <10       | 87        | 0.039    |
| ZZ122551           |                          | 0.04      | <10       | <10       | 67        | <10       | 76        | 0.039    |
| ZZ122552           |                          | 0.03      | <10       | <10       | 65        | <10       | 86        | 0.133    |
| ZZ122553           |                          | 0.06      | <10       | <10       | 85        | <10       | 89        | 0.037    |
| ZZ122554           |                          | 0.07      | <10       | <10       | 95        | <10       | 115       | 0.047    |
| ZZ122555           |                          | 0.03      | <10       | <10       | 77        | <10       | 85        | 0.065    |
| ZZ122556           |                          | 0.07      | <10       | <10       | 62        | <10       | 91        | 0.033    |
| ZZ122557           |                          | 0.03      | <10       | <10       | 47        | <10       | 105       | 0.351    |
| ZZ122558           |                          | 0.03      | <10       | <10       | 45        | <10       | 96        | 0.142    |
| ZZ122559           |                          | 0.02      | <10       | <10       | 43        | <10       | 114       | 0.119    |
| ZZ122560           |                          | 0.01      | <10       | <10       | 44        | <10       | 95        | 0.674    |
| ZZ122561           |                          | 0.01      | <10       | <10       | 47        | <10       | 120       | 0.660    |
| ZZ122562           |                          | 0.01      | <10       | <10       | 45        | <10       | 124       | 0.412    |
| ZZ122563           |                          | 0.01      | <10       | <10       | 45        | <10       | 132       | 0.459    |
| ZZ122564           |                          | 0.01      | <10       | <10       | 46        | <10       | 150       | 0.846    |
| ZZ122565           |                          | 0.02      | <10       | <10       | 53        | <10       | 125       | 0.624    |
| ZZ122566           |                          | <0.01     | <10       | <10       | 27        | <10       | 189       | 0.319    |
| ZZ122567           |                          | 0.07      | <10       | <10       | 120       | <10       | 119       | 0.050    |
| ZZ122568           |                          | <0.01     | <10       | <10       | 23        | <10       | 200       | 0.128    |
| ZZ122569           |                          | 0.01      | <10       | <10       | 12        | <10       | 245       | 0.604    |
| ZZ122570           |                          | 0.01      | <10       | <10       | 48        | <10       | 166       | 0.118    |
| ZZ122571           |                          | 0.02      | <10       | <10       | 35        | <10       | 129       | 0.112    |
| ZZ122572           |                          | 0.01      | <10       | <10       | 29        | <10       | 189       | 0.189    |
| ZZ122573           |                          | 0.01      | <10       | <10       | 40        | <10       | 158       | 0.133    |
| ZZ122574           |                          | 0.01      | <10       | <10       | 41        | <10       | 142       | 0.313    |
| ZZ122575           |                          | 0.01      | <10       | <10       | 65        | <10       | 130       | 0.296    |
| ZZ122576           |                          | 0.01      | <10       | <10       | 40        | <10       | 134       | 0.226    |
| ZZ122577           |                          | 0.01      | <10       | <10       | 54        | <10       | 95        | 0.044    |
| ZZ122578           |                          | 0.02      | <10       | <10       | 67        | <10       | 120       | 0.107    |
| ZZ122579           |                          | 0.05      | <10       | <10       | 111       | <10       | 90        | 0.013    |
| ZZ122580           |                          | 0.02      | <10       | <10       | 80        | <10       | 87        | 0.019    |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method  | WEI- 21   | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        | Ga        |
| Units              |         | kg        | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         | ppm       |
| LOR                |         | 0.02      | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      | 10        |
| ZZ122581           |         | 0.24      | <0.2      | 3.01      | 61        | <10       | 80        | <0.5      | <2        | 1.32      | <0.5      | 34        | 164       | 142       | 5.98      | 10        |
| ZZ122582           |         | 0.14      | <0.2      | 1.90      | 17        | <10       | 110       | <0.5      | <2        | 0.91      | 0.5       | 24        | 72        | 91        | 3.81      | <10       |
| ZZ122583           |         | 0.22      | 0.3       | 2.40      | 43        | <10       | 70        | <0.5      | <2        | 1.15      | <0.5      | 30        | 191       | 128       | 5.04      | 10        |
| ZZ122584           |         | 0.20      | 0.3       | 1.80      | 85        | <10       | 60        | <0.5      | <2        | 1.03      | 0.5       | 28        | 76        | 124       | 4.98      | <10       |
| ZZ122585           |         | 0.18      | 0.4       | 1.30      | 92        | <10       | 160       | <0.5      | <2        | 1.26      | 0.6       | 28        | 54        | 113       | 5.33      | <10       |
| ZZ122586           |         | 0.27      | 0.6       | 1.09      | 117       | <10       | 50        | <0.5      | <2        | 1.20      | 0.7       | 30        | 46        | 114       | 5.89      | <10       |
| ZZ122587           |         | 0.20      | 0.9       | 1.03      | 130       | <10       | 40        | <0.5      | <2        | 1.49      | 0.7       | 32        | 47        | 132       | 6.16      | <10       |
| ZZ122588           |         | 0.20      | 0.4       | 2.80      | 57        | <10       | 70        | <0.5      | <2        | 1.18      | 0.6       | 44        | 338       | 159       | 5.67      | 10        |
| ZZ122589           |         | 0.22      | 0.5       | 1.86      | 59        | <10       | 30        | 0.5       | 2         | 1.25      | 0.6       | 35        | 29        | 182       | 6.90      | <10       |
| ZZ122590           |         | 0.25      | 0.8       | 0.59      | 194       | <10       | 10        | <0.5      | <2        | 0.95      | 0.8       | 40        | 8         | 174       | 8.57      | <10       |
| ZZ122591           |         | 0.24      | 0.2       | 3.44      | 36        | <10       | 70        | <0.5      | <2        | 1.81      | 0.6       | 42        | 217       | 168       | 6.58      | 10        |
| ZZ122592           |         | 0.18      | 0.3       | 2.13      | 45        | <10       | 40        | <0.5      | <2        | 0.84      | <0.5      | 32        | 162       | 152       | 5.35      | <10       |
| ZZ122593           |         | 0.18      | 0.7       | 1.89      | 80        | <10       | 70        | <0.5      | <2        | 1.12      | <0.5      | 33        | 89        | 190       | 6.15      | <10       |
| ZZ122594           |         | 0.35      | 0.7       | 1.47      | 74        | <10       | 70        | <0.5      | 2         | 1.04      | <0.5      | 32        | 43        | 147       | 5.93      | <10       |
| ZZ122595           |         | 0.26      | 2.1       | 1.20      | 139       | <10       | 70        | <0.5      | 2         | 1.71      | 0.7       | 45        | 58        | 148       | 7.01      | <10       |
| ZZ122596           |         | 0.17      | 0.7       | 1.40      | 95        | <10       | 50        | <0.5      | <2        | 1.45      | <0.5      | 44        | 56        | 179       | 6.72      | <10       |
| ZZ122597           |         | 0.20      | 0.5       | 1.43      | 60        | <10       | 70        | <0.5      | <2        | 1.61      | <0.5      | 32        | 50        | 144       | 5.24      | <10       |
| ZZ122598           |         | 0.19      | 0.3       | 2.54      | 29        | <10       | 80        | <0.5      | 2         | 2.59      | <0.5      | 36        | 100       | 127       | 5.65      | 10        |
| ZZ122599           |         | 0.19      | 0.6       | 1.24      | 70        | <10       | 100       | <0.5      | <2        | 1.59      | 0.7       | 28        | 37        | 128       | 4.86      | <10       |
| ZZ122600           |         | 0.23      | 0.4       | 1.48      | 37        | <10       | 110       | <0.5      | <2        | 0.98      | <0.5      | 24        | 44        | 123       | 4.55      | <10       |
| ZZ122601           |         | 0.23      | 0.8       | 1.25      | 86        | <10       | 80        | <0.5      | <2        | 1.05      | 0.5       | 30        | 45        | 107       | 5.50      | <10       |
| ZZ122602           |         | 0.15      | 0.3       | 1.51      | 29        | 10        | 90        | <0.5      | <2        | 1.72      | <0.5      | 22        | 44        | 84        | 3.74      | <10       |
| ZZ122603           |         | 0.15      | 0.5       | 1.61      | 104       | <10       | 60        | <0.5      | 3         | 1.40      | <0.5      | 35        | 88        | 135       | 5.34      | <10       |
| ZZ122604           |         | 0.15      | 0.3       | 1.97      | 62        | <10       | 90        | <0.5      | 2         | 1.72      | <0.5      | 36        | 96        | 163       | 5.50      | <10       |
| ZZ122605           |         | 0.34      | <0.2      | 2.45      | 49        | <10       | 70        | <0.5      | 2         | 2.35      | <0.5      | 36        | 124       | 131       | 5.53      | 10        |
| ZZ122606           |         | 0.29      | 0.2       | 2.21      | 36        | <10       | 110       | <0.5      | <2        | 1.21      | <0.5      | 28        | 60        | 151       | 4.91      | 10        |
| ZZ122607           |         | 0.21      | 0.3       | 2.76      | 56        | <10       | 80        | <0.5      | 2         | 1.30      | 0.5       | 45        | 188       | 177       | 6.06      | 10        |
| ZZ122608           |         | 0.17      | <0.2      | 2.19      | 34        | <10       | 80        | <0.5      | <2        | 1.13      | <0.5      | 34        | 138       | 129       | 5.38      | <10       |
| ZZ122609           |         | 0.17      | <0.2      | 2.07      | 32        | <10       | 100       | <0.5      | <2        | 1.25      | <0.5      | 28        | 94        | 126       | 5.03      | <10       |
| ZZ122610           |         | 0.23      | 0.3       | 1.41      | 40        | <10       | 70        | <0.5      | 2         | 0.48      | <0.5      | 18        | 12        | 91        | 4.01      | <10       |
| ZZ122611           |         | 0.35      | 0.3       | 2.51      | 85        | <10       | 60        | <0.5      | 2         | 1.93      | <0.5      | 39        | 198       | 110       | 5.97      | 10        |
| ZZ122612           |         | 0.29      | <0.2      | 2.61      | 48        | <10       | 50        | <0.5      | 2         | 1.36      | <0.5      | 36        | 111       | 147       | 5.86      | 10        |
| ZZ122613           |         | 0.20      | 0.3       | 2.54      | 26        | <10       | 90        | <0.5      | <2        | 1.36      | 0.5       | 31        | 123       | 135       | 5.97      | 10        |
| ZZ122614           |         | 0.24      | <0.2      | 3.14      | 52        | <10       | 50        | <0.5      | <2        | 3.52      | 0.9       | 39        | 131       | 175       | 6.27      | 10        |
| ZZ122615           |         | 0.16      | <0.2      | 1.84      | 31        | <10       | 110       | <0.5      | <2        | 1.05      | <0.5      | 23        | 59        | 64        | 4.03      | <10       |
| ZZ122616           |         | 0.17      | <0.2      | 2.53      | 21        | <10       | 140       | <0.5      | <2        | 1.04      | <0.5      | 30        | 89        | 139       | 5.09      | 10        |
| ZZ122617           |         | 0.13      | 0.2       | 2.45      | 59        | <10       | 60        | <0.5      | <2        | 2.06      | 0.5       | 47        | 92        | 229       | 5.61      | 10        |
| ZZ122618           |         | 0.30      | <0.2      | 1.17      | 10        | <10       | 80        | <0.5      | 5         | 10.9      | 1.8       | 16        | 36        | 74        | 3.37      | <10       |
| ZZ122619           |         | 0.21      | <0.2      | 4.84      | 16        | <10       | 30        | <0.5      | 2         | 1.18      | <0.5      | 51        | 331       | 211       | 7.61      | 10        |
| ZZ122620           |         | 0.27      | 0.5       | 3.11      | 68        | <10       | 80        | <0.5      | <2        | 1.65      | 0.7       | 44        | 232       | 196       | 6.69      | 10        |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method                  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |           |
|--------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte<br>Units<br>LOR | Hg<br>ppm | K<br>%    | La<br>ppm | Mg<br>%   | Mn<br>ppm | Mo<br>ppm | Na<br>%   | Ni<br>ppm | P<br>ppm  | Pb<br>ppm | S<br>%    | Sb<br>ppm | Sc<br>ppm | Sr<br>ppm | Th<br>ppm |
|                    |                         | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20        |
| ZZ122581           |                         | 1         | 0.05      | 10        | 2.98      | 832       | 1         | <0.01     | 84        | 710       | 10        | 0.07      | <2        | 14        | 38        | <20       |
| ZZ122582           |                         | 1         | 0.07      | 10        | 1.37      | 1015      | 1         | 0.02      | 42        | 540       | 17        | 0.06      | <2        | 8         | 36        | <20       |
| ZZ122583           |                         | 1         | 0.04      | 10        | 2.15      | 924       | 2         | 0.01      | 95        | 640       | 11        | 0.10      | <2        | 9         | 44        | <20       |
| ZZ122584           |                         | 1         | 0.05      | 10        | 1.37      | 942       | 4         | 0.01      | 60        | 740       | 19        | 0.10      | <2        | 8         | 43        | <20       |
| ZZ122585           |                         | <1        | 0.04      | 10        | 1.03      | 902       | 4         | 0.01      | 65        | 740       | 26        | 0.15      | 2         | 6         | 46        | <20       |
| ZZ122586           |                         | <1        | 0.04      | 10        | 0.85      | 972       | 3         | 0.01      | 79        | 840       | 27        | 0.15      | 2         | 6         | 49        | <20       |
| ZZ122587           |                         | <1        | 0.04      | 10        | 1.04      | 954       | 5         | 0.01      | 72        | 790       | 27        | 0.20      | 2         | 6         | 59        | <20       |
| ZZ122588           |                         | <1        | 0.05      | 10        | 3.33      | 836       | 6         | <0.01     | 160       | 740       | 14        | 0.07      | <2        | 10        | 39        | <20       |
| ZZ122589           |                         | 1         | 0.04      | 10        | 1.18      | 421       | 3         | 0.01      | 80        | 970       | 22        | 0.27      | 4         | 4         | 53        | <20       |
| ZZ122590           |                         | <1        | 0.05      | <10       | 0.61      | 622       | 3         | 0.02      | 103       | 920       | 24        | 0.76      | <2        | 5         | 62        | <20       |
| ZZ122591           |                         | 1         | 0.07      | <10       | 3.93      | 948       | 2         | 0.01      | 130       | 740       | 7         | 0.08      | <2        | 13        | 43        | <20       |
| ZZ122592           |                         | <1        | 0.05      | 10        | 2.01      | 686       | 2         | <0.01     | 95        | 630       | 12        | 0.06      | <2        | 8         | 35        | <20       |
| ZZ122593           |                         | <1        | 0.05      | 10        | 1.50      | 1115      | 2         | 0.01      | 77        | 710       | 12        | 0.18      | <2        | 9         | 44        | <20       |
| ZZ122594           |                         | <1        | 0.05      | 10        | 1.04      | 1040      | 3         | 0.01      | 61        | 780       | 15        | 0.17      | <2        | 8         | 44        | <20       |
| ZZ122595           |                         | <1        | 0.05      | 10        | 1.25      | 1140      | 2         | 0.01      | 84        | 810       | 32        | 0.26      | 2         | 9         | 70        | <20       |
| ZZ122596           |                         | <1        | 0.05      | 10        | 1.27      | 1185      | 3         | 0.01      | 71        | 870       | 25        | 0.24      | 3         | 13        | 55        | <20       |
| ZZ122597           |                         | 1         | 0.05      | 10        | 1.13      | 1335      | 2         | 0.01      | 61        | 830       | 18        | 0.20      | 2         | 7         | 56        | <20       |
| ZZ122598           |                         | 1         | 0.15      | 10        | 2.27      | 1050      | 2         | <0.01     | 64        | 890       | 8         | 0.15      | 3         | 8         | 89        | <20       |
| ZZ122599           |                         | 1         | 0.06      | 10        | 0.91      | 988       | 2         | 0.01      | 57        | 890       | 24        | 0.17      | <2        | 6         | 69        | <20       |
| ZZ122600           |                         | <1        | 0.07      | 10        | 0.99      | 1070      | 2         | 0.01      | 44        | 740       | 15        | 0.14      | <2        | 6         | 44        | <20       |
| ZZ122601           |                         | <1        | 0.07      | 10        | 1.10      | 1205      | 1         | 0.01      | 54        | 1000      | 17        | 0.30      | 5         | 8         | 50        | <20       |
| ZZ122602           |                         | <1        | 0.07      | 10        | 1.02      | 772       | 1         | 0.02      | 40        | 810       | 19        | 0.16      | <2        | 6         | 67        | <20       |
| ZZ122603           |                         | <1        | 0.05      | 10        | 1.30      | 986       | 3         | 0.01      | 87        | 880       | 14        | 0.18      | 2         | 7         | 64        | <20       |
| ZZ122604           |                         | <1        | 0.09      | 10        | 1.64      | 1170      | 4         | 0.01      | 77        | 790       | 17        | 0.15      | 2         | 9         | 70        | <20       |
| ZZ122605           |                         | <1        | 0.07      | 10        | 2.47      | 860       | 3         | 0.01      | 83        | 740       | 10        | 0.14      | <2        | 10        | 71        | <20       |
| ZZ122606           |                         | <1        | 0.12      | 20        | 1.47      | 1205      | 4         | 0.01      | 51        | 810       | 26        | 0.09      | <2        | 7         | 51        | <20       |
| ZZ122607           |                         | <1        | 0.10      | 10        | 2.59      | 1080      | 4         | <0.01     | 133       | 570       | 27        | 0.07      | <2        | 10        | 54        | <20       |
| ZZ122608           |                         | <1        | 0.07      | 10        | 1.73      | 960       | 2         | 0.01      | 89        | 850       | 14        | 0.10      | <2        | 10        | 47        | <20       |
| ZZ122609           |                         | 1         | 0.08      | 10        | 1.55      | 1090      | 2         | 0.01      | 68        | 870       | 11        | 0.12      | <2        | 8         | 48        | <20       |
| ZZ122610           |                         | <1        | 0.05      | 10        | 0.87      | 1210      | 2         | <0.01     | 26        | 1000      | 23        | 0.14      | <2        | 3         | 30        | <20       |
| ZZ122611           |                         | <1        | 0.05      | 10        | 2.59      | 566       | 3         | <0.01     | 135       | 740       | 35        | 0.16      | <2        | 10        | 57        | <20       |
| ZZ122612           |                         | <1        | 0.03      | 10        | 2.30      | 680       | 2         | 0.01      | 73        | 810       | 10        | 0.15      | <2        | 9         | 44        | <20       |
| ZZ122613           |                         | <1        | 0.06      | 10        | 2.63      | 850       | 2         | 0.01      | 76        | 550       | 14        | 0.09      | <2        | 11        | 40        | <20       |
| ZZ122614           |                         | <1        | 0.05      | 10        | 4.68      | 874       | 2         | 0.01      | 70        | 620       | 10        | 0.06      | <2        | 14        | 70        | <20       |
| ZZ122615           |                         | 1         | 0.06      | 10        | 1.22      | 846       | 5         | 0.02      | 52        | 970       | 7         | 0.13      | <2        | 4         | 40        | <20       |
| ZZ122616           |                         | <1        | 0.06      | 10        | 2.10      | 1280      | 6         | 0.01      | 57        | 890       | 9         | 0.12      | <2        | 7         | 52        | <20       |
| ZZ122617           |                         | <1        | 0.06      | 10        | 2.15      | 1095      | 6         | 0.01      | 66        | 680       | 4         | 0.16      | <2        | 8         | 69        | <20       |
| ZZ122618           |                         | 1         | 0.04      | 10        | 6.82      | 1140      | 3         | 0.01      | 36        | 710       | 17        | 0.08      | 3         | 6         | 123       | <20       |
| ZZ122619           |                         | <1        | 0.03      | <10       | 5.17      | 706       | 1         | <0.01     | 107       | 540       | <2        | 0.08      | <2        | 17        | 27        | <20       |
| ZZ122620           |                         | <1        | 0.07      | 10        | 3.53      | 791       | 6         | <0.01     | 157       | 920       | 12        | 0.12      | 4         | 13        | 46        | <20       |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Ti %      | Ti ppm    | U ppm     | V ppm     | W ppm     | Zn ppm    | Au ppm   |
|                    |                          | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005    |
| ZZ122581           |                          | 0.02      | <10       | <10       | 115       | <10       | 115       | 0.011    |
| ZZ122582           |                          | 0.05      | <10       | <10       | 79        | <10       | 81        | 0.006    |
| ZZ122583           |                          | 0.03      | <10       | <10       | 88        | <10       | 90        | 0.024    |
| ZZ122584           |                          | 0.02      | <10       | <10       | 63        | <10       | 110       | 0.062    |
| ZZ122585           |                          | 0.01      | <10       | <10       | 36        | <10       | 138       | 0.146    |
| ZZ122586           |                          | 0.01      | <10       | <10       | 30        | <10       | 192       | 0.275    |
| ZZ122587           |                          | 0.01      | <10       | <10       | 28        | <10       | 188       | 0.324    |
| ZZ122588           |                          | 0.04      | <10       | <10       | 99        | <10       | 101       | 0.031    |
| ZZ122589           |                          | 0.01      | <10       | <10       | 36        | <10       | 206       | 0.027    |
| ZZ122590           |                          | <0.01     | <10       | <10       | 11        | <10       | 318       | 0.199    |
| ZZ122591           |                          | 0.11      | <10       | <10       | 154       | <10       | 107       | 0.023    |
| ZZ122592           |                          | 0.02      | <10       | <10       | 62        | <10       | 123       | 0.075    |
| ZZ122593           |                          | 0.02      | <10       | <10       | 65        | <10       | 119       | 0.518    |
| ZZ122594           |                          | <0.01     | <10       | <10       | 44        | <10       | 150       | 1.020    |
| ZZ122595           |                          | <0.01     | <10       | <10       | 43        | <10       | 145       | 0.834    |
| ZZ122596           |                          | <0.01     | <10       | <10       | 57        | <10       | 142       | 1.120    |
| ZZ122597           |                          | 0.01      | <10       | <10       | 49        | <10       | 125       | 0.247    |
| ZZ122598           |                          | 0.03      | <10       | <10       | 66        | <10       | 83        | 0.296    |
| ZZ122599           |                          | 0.01      | <10       | <10       | 44        | <10       | 141       | 0.247    |
| ZZ122600           |                          | 0.03      | <10       | <10       | 55        | <10       | 106       | 0.100    |
| ZZ122601           |                          | 0.04      | <10       | <10       | 51        | <10       | 133       | 0.257    |
| ZZ122602           |                          | 0.04      | <10       | <10       | 60        | <10       | 95        | 0.055    |
| ZZ122603           |                          | 0.01      | <10       | <10       | 54        | <10       | 105       | 0.169    |
| ZZ122604           |                          | 0.03      | <10       | <10       | 77        | <10       | 116       | 0.206    |
| ZZ122605           |                          | 0.04      | <10       | <10       | 91        | <10       | 120       | 0.061    |
| ZZ122606           |                          | 0.04      | <10       | <10       | 80        | <10       | 111       | 0.027    |
| ZZ122607           |                          | 0.03      | <10       | <10       | 87        | <10       | 140       | 0.082    |
| ZZ122608           |                          | 0.02      | <10       | <10       | 75        | <10       | 109       | 0.064    |
| ZZ122609           |                          | 0.03      | <10       | <10       | 82        | <10       | 96        | 0.056    |
| ZZ122610           |                          | <0.01     | <10       | <10       | 19        | <10       | 102       | 0.034    |
| ZZ122611           |                          | <0.01     | <10       | <10       | 74        | <10       | 133       | 0.051    |
| ZZ122612           |                          | 0.02      | <10       | <10       | 80        | <10       | 128       | 0.024    |
| ZZ122613           |                          | 0.09      | <10       | <10       | 106       | <10       | 116       | 0.038    |
| ZZ122614           |                          | 0.14      | <10       | <10       | 148       | <10       | 122       | 0.020    |
| ZZ122615           |                          | 0.07      | <10       | <10       | 78        | <10       | 95        | 0.009    |
| ZZ122616           |                          | 0.05      | <10       | <10       | 100       | <10       | 89        | 0.012    |
| ZZ122617           |                          | 0.06      | <10       | <10       | 103       | <10       | 75        | 0.048    |
| ZZ122618           |                          | 0.03      | <10       | <10       | 60        | <10       | 190       | 0.015    |
| ZZ122619           |                          | 0.08      | <10       | <10       | 185       | <10       | 88        | 0.008    |
| ZZ122620           |                          | 0.10      | <10       | <10       | 137       | <10       | 136       | 0.055    |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method Analyte Units LOR | WEI- 21      | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Recvd Wt. kg | Ag ppm    | Al %      | As ppm    | B ppm     | Ba ppm    | Be ppm    | Bi ppm    | Ca %      | Cd ppm    | Co ppm    | Cr ppm    | Cu ppm    | Fe %      | Ga ppm    |
|                    |                          | 0.02         | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      | 10        |
| ZZ122621           |                          | 0.21         | <0.2      | 3.70      | 8         | <10       | 40        | <0.5      | 2         | 1.09      | <0.5      | 42        | 279       | 239       | 6.42      | 10        |
| ZZ122622           |                          | 0.27         | <0.2      | 3.63      | 32        | <10       | 60        | <0.5      | <2        | 2.25      | <0.5      | 53        | 586       | 133       | 6.43      | 10        |
| ZZ122623           |                          | 0.21         | <0.2      | 4.61      | 33        | <10       | 50        | <0.5      | <2        | 1.37      | <0.5      | 50        | 611       | 180       | 6.55      | 10        |
| ZZ122624           |                          | 0.37         | <0.2      | 0.68      | 12        | <10       | 70        | <0.5      | <2        | 10.6      | 1.0       | 11        | 40        | 44        | 2.03      | <10       |
| ZZ122625           |                          | 0.16         | 0.2       | 3.02      | 90        | 10        | 80        | <0.5      | <2        | 1.60      | <0.5      | 80        | 231       | 432       | 7.02      | 10        |
| ZZ122626           |                          | 0.22         | <0.2      | 3.72      | 19        | <10       | 170       | <0.5      | 2         | 1.30      | <0.5      | 41        | 361       | 181       | 5.78      | 10        |
| ZZ122627           |                          | 0.20         | 0.3       | 3.26      | 58        | <10       | 100       | 0.5       | 3         | 1.81      | <0.5      | 55        | 69        | 386       | 8.09      | 10        |
| ZZ122628           |                          | 0.26         | 0.2       | 3.36      | 54        | 10        | 80        | 0.5       | 3         | 2.14      | <0.5      | 59        | 178       | 373       | 7.59      | 10        |
| ZZ122629           |                          | 0.22         | 0.3       | 4.17      | 20        | <10       | 100       | <0.5      | <2        | 0.78      | <0.5      | 44        | 632       | 179       | 6.53      | 10        |
| ZZ122630           |                          | 0.16         | 0.2       | 1.58      | 10        | 10        | 170       | <0.5      | <2        | 1.75      | <0.5      | 26        | 98        | 191       | 3.80      | <10       |
| ZZ122631           |                          | 0.15         | <0.2      | 2.09      | 31        | 10        | 60        | <0.5      | <2        | 1.67      | 1.0       | 41        | 154       | 165       | 4.21      | <10       |
| ZZ122632           |                          | 0.14         | 0.3       | 2.94      | 45        | <10       | 90        | <0.5      | 2         | 1.77      | 0.6       | 40        | 232       | 158       | 5.70      | 10        |
| ZZ122633           |                          | 0.23         | 0.6       | 2.30      | 36        | <10       | 90        | <0.5      | <2        | 2.44      | 1.0       | 31        | 207       | 113       | 4.84      | 10        |
| ZZ122634           |                          | 0.19         | 0.2       | 2.96      | 29        | 10        | 70        | <0.5      | <2        | 2.84      | 0.7       | 38        | 260       | 168       | 5.24      | 10        |
| ZZ122635           |                          | 0.23         | 0.3       | 3.32      | 31        | <10       | 70        | <0.5      | <2        | 1.74      | 0.6       | 45        | 233       | 228       | 6.05      | 10        |
| ZZ122636           |                          | 0.21         | <0.2      | 5.22      | 3         | <10       | 40        | <0.5      | <2        | 1.89      | <0.5      | 40        | 549       | 160       | 6.88      | 10        |
| ZZ122637           |                          | 0.27         | <0.2      | 3.92      | 3         | <10       | 50        | <0.5      | <2        | 1.98      | <0.5      | 48        | 709       | 96        | 5.56      | 10        |
| ZZ122638           |                          | 0.30         | 0.2       | 4.79      | 13        | <10       | 110       | 0.5       | <2        | 1.52      | <0.5      | 55        | 234       | 319       | 8.56      | 10        |
| ZZ122639           |                          | 0.57         | 0.4       | 1.01      | 33        | <10       | 60        | <0.5      | <2        | 11.6      | 0.6       | 18        | 53        | 75        | 2.70      | <10       |
| ZZ122640           |                          | 0.17         | 1.2       | 2.70      | 103       | <10       | 120       | <0.5      | 2         | 2.03      | 0.9       | 39        | 289       | 139       | 5.66      | 10        |
| ZZ122641           |                          | 0.24         | <0.2      | 2.95      | 10        | 10        | 40        | <0.5      | <2        | 1.35      | <0.5      | 36        | 161       | 202       | 5.40      | 10        |
| ZZ122642           |                          | 0.19         | <0.2      | 3.65      | 17        | <10       | 50        | <0.5      | <2        | 1.40      | <0.5      | 55        | 279       | 256       | 6.89      | 10        |
| ZZ122643           |                          | 0.38         | <0.2      | 3.84      | 9         | <10       | 100       | <0.5      | <2        | 1.43      | <0.5      | 58        | 195       | 281       | 8.39      | 10        |
| ZZ122644           |                          | 0.23         | <0.2      | 2.62      | 7         | 10        | 60        | <0.5      | <2        | 2.09      | 0.5       | 48        | 110       | 187       | 4.95      | 10        |
| ZZ122645           |                          | 0.36         | <0.2      | 3.66      | 5         | <10       | 40        | <0.5      | <2        | 0.84      | <0.5      | 53        | 174       | 243       | 6.77      | 10        |
| ZZ122646           |                          | 0.20         | <0.2      | 3.44      | 9         | <10       | 30        | <0.5      | 3         | 1.03      | <0.5      | 47        | 167       | 378       | 7.10      | 10        |
| ZZ122647           |                          | 0.62         | 1.6       | 0.78      | 56        | 10        | 60        | <0.5      | <2        | 0.48      | 0.8       | 28        | 34        | 98        | 8.64      | <10       |
| ZZ122648           |                          | 0.26         | 3.7       | 0.30      | 165       | 10        | 20        | <0.5      | 3         | 0.23      | 0.5       | 9         | 14        | 42        | 14.60     | <10       |
| ZZ122649           |                          | 0.61         | 0.3       | 1.62      | 50        | <10       | 20        | <0.5      | 2         | 1.97      | <0.5      | 27        | 30        | 91        | 4.75      | <10       |
| ZZ122650           |                          | 0.65         | 0.2       | 0.94      | 71        | <10       | 30        | <0.5      | <2        | 1.35      | <0.5      | 23        | 11        | 69        | 4.32      | <10       |
| ZZ122651           |                          | 0.74         | 0.5       | 1.50      | 65        | <10       | 30        | 0.5       | 2         | 1.82      | 0.5       | 30        | 19        | 139       | 6.00      | <10       |
| ZZ122652           |                          | 0.55         | 0.3       | 2.44      | 91        | <10       | 30        | <0.5      | <2        | 2.05      | <0.5      | 48        | 92        | 223       | 6.88      | 10        |
| ZZ122653           |                          | 0.45         | 0.6       | 0.79      | 90        | <10       | 30        | <0.5      | <2        | 1.72      | 0.5       | 30        | 29        | 116       | 4.95      | <10       |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17192496 |
|------------------------------------|

| Sample Description | Method Analyte Units LOR | ME- ICP41 Hg ppm | ME- ICP41 K % | ME- ICP41 La ppm | ME- ICP41 Mg % | ME- ICP41 Mn ppm | ME- ICP41 Mo ppm | ME- ICP41 Na % | ME- ICP41 Ni ppm | ME- ICP41 P ppm | ME- ICP41 Pb ppm | ME- ICP41 S % | ME- ICP41 Sb ppm | ME- ICP41 Sc ppm | ME- ICP41 Sr ppm | ME- ICP41 Th ppm |
|--------------------|--------------------------|------------------|---------------|------------------|----------------|------------------|------------------|----------------|------------------|-----------------|------------------|---------------|------------------|------------------|------------------|------------------|
|                    |                          | 1                | 0.01          | 10               | 0.01           | 5                | 1                | 0.01           | 1                | 10              | 2                | 0.01          | 2                | 1                | 1                | 20               |
| ZZ122621           |                          | <1               | 0.05          | 10               | 3.97           | 1010             | 1                | 0.01           | 127              | 620             | 2                | 0.04          | <2               | 10               | 26               | <20              |
| ZZ122622           |                          | <1               | 0.03          | 10               | 5.61           | 586              | 2                | 0.01           | 303              | 700             | 6                | 0.08          | <2               | 19               | 47               | <20              |
| ZZ122623           |                          | <1               | 0.02          | 10               | 6.23           | 797              | 1                | <0.01          | 222              | 480             | 2                | 0.08          | <2               | 23               | 42               | <20              |
| ZZ122624           |                          | <1               | 0.03          | 10               | 6.43           | 702              | 6                | 0.01           | 35               | 670             | 25               | 0.08          | 3                | 3                | 155              | <20              |
| ZZ122625           |                          | <1               | 0.06          | 10               | 2.64           | 1215             | 2                | 0.02           | 172              | 640             | 3                | 0.13          | 3                | 12               | 39               | <20              |
| ZZ122626           |                          | <1               | 0.04          | 10               | 4.71           | 795              | 2                | 0.01           | 172              | 530             | 4                | 0.09          | <2               | 14               | 33               | <20              |
| ZZ122627           |                          | <1               | 0.07          | 10               | 2.65           | 1490             | 1                | 0.01           | 70               | 560             | 5                | 0.08          | <2               | 21               | 80               | <20              |
| ZZ122628           |                          | 1                | 0.10          | 10               | 3.24           | 1440             | 3                | 0.01           | 102              | 800             | 7                | 0.09          | 2                | 21               | 55               | <20              |
| ZZ122629           |                          | <1               | 0.03          | <10              | 5.84           | 811              | 1                | 0.01           | 248              | 360             | 8                | 0.07          | <2               | 14               | 23               | <20              |
| ZZ122630           |                          | <1               | 0.06          | 10               | 1.55           | 789              | 4                | 0.01           | 56               | 870             | 3                | 0.19          | <2               | 4                | 53               | <20              |
| ZZ122631           |                          | 1                | 0.07          | 10               | 2.25           | 823              | 2                | 0.01           | 106              | 790             | 7                | 0.17          | <2               | 7                | 35               | <20              |
| ZZ122632           |                          | 1                | 0.07          | <10              | 3.28           | 917              | 2                | 0.01           | 143              | 740             | 5                | 0.11          | 2                | 14               | 44               | <20              |
| ZZ122633           |                          | 1                | 0.03          | 10               | 2.98           | 564              | 4                | 0.01           | 125              | 870             | 8                | 0.12          | <2               | 9                | 61               | <20              |
| ZZ122634           |                          | 1                | 0.04          | 10               | 3.94           | 717              | 2                | 0.01           | 98               | 960             | 6                | 0.12          | <2               | 15               | 65               | <20              |
| ZZ122635           |                          | <1               | 0.04          | 10               | 3.89           | 880              | 2                | 0.01           | 124              | 660             | 7                | 0.13          | <2               | 17               | 40               | <20              |
| ZZ122636           |                          | 1                | 0.01          | <10              | 6.36           | 499              | 1                | <0.01          | 174              | 270             | 2                | 0.02          | <2               | 28               | 38               | <20              |
| ZZ122637           |                          | <1               | 0.02          | <10              | 5.83           | 955              | 1                | <0.01          | 352              | 370             | 3                | 0.04          | <2               | 5                | 123              | <20              |
| ZZ122638           |                          | <1               | 0.07          | <10              | 4.47           | 1105             | 3                | 0.01           | 91               | 560             | 12               | 0.11          | <2               | 19               | 34               | <20              |
| ZZ122639           |                          | 1                | 0.03          | 10               | 6.65           | 836              | 14               | 0.01           | 47               | 620             | 26               | 0.06          | 2                | 5                | 188              | <20              |
| ZZ122640           |                          | 1                | 0.07          | 10               | 3.17           | 591              | 6                | 0.01           | 192              | 1230            | 11               | 0.13          | <2               | 14               | 66               | <20              |
| ZZ122641           |                          | 1                | 0.06          | <10              | 3.13           | 881              | 1                | 0.01           | 87               | 680             | 4                | 0.07          | 2                | 9                | 28               | <20              |
| ZZ122642           |                          | 1                | 0.06          | <10              | 3.82           | 1185             | 1                | 0.01           | 136              | 560             | 2                | 0.08          | <2               | 13               | 30               | <20              |
| ZZ122643           |                          | <1               | 0.14          | <10              | 3.87           | 1335             | 1                | 0.01           | 107              | 690             | 4                | 0.06          | <2               | 19               | 33               | <20              |
| ZZ122644           |                          | <1               | 0.07          | <10              | 2.89           | 1290             | 1                | 0.01           | 78               | 980             | 2                | 0.12          | <2               | 6                | 31               | <20              |
| ZZ122645           |                          | 1                | 0.07          | <10              | 4.04           | 1490             | 1                | 0.01           | 108              | 730             | 6                | 0.07          | <2               | 10               | 22               | <20              |
| ZZ122646           |                          | 1                | 0.06          | <10              | 3.30           | 1205             | 1                | 0.01           | 77               | 600             | 3                | 0.03          | 2                | 11               | 25               | <20              |
| ZZ122647           |                          | 1                | 1.17          | <10              | 0.46           | 400              | 1                | 0.11           | 32               | 720             | 33               | 2.49          | <2               | 8                | 56               | <20              |
| ZZ122648           |                          | 1                | 2.95          | <10              | 0.11           | 90               | 1                | 0.09           | 12               | 1320            | 62               | 5.31          | <2               | 3                | 39               | <20              |
| ZZ122649           |                          | 1                | 0.06          | 10               | 1.21           | 673              | 2                | 0.01           | 48               | 920             | 14               | 0.21          | <2               | 4                | 53               | <20              |
| ZZ122650           |                          | 1                | 0.06          | 10               | 0.75           | 739              | 2                | 0.01           | 40               | 930             | 13               | 0.33          | <2               | 3                | 54               | <20              |
| ZZ122651           |                          | <1               | 0.05          | 10               | 1.17           | 624              | 4                | 0.01           | 61               | 720             | 26               | 0.33          | <2               | 4                | 55               | <20              |
| ZZ122652           |                          | 1                | 0.03          | 10               | 2.36           | 1030             | 3                | 0.01           | 91               | 890             | 9                | 0.18          | <2               | 14               | 50               | <20              |
| ZZ122653           |                          | <1               | 0.05          | 10               | 0.97           | 962              | 3                | 0.01           | 63               | 780             | 15               | 0.42          | <2               | 4                | 50               | <20              |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Ti %      | Ti ppm    | U ppm     | V ppm     | W ppm     | Zn ppm    | Au ppm   |
|                    |                          | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005    |
| ZZ122621           |                          | 0.25      | <10       | <10       | 164       | <10       | 96        | 0.007    |
| ZZ122622           |                          | 0.01      | <10       | <10       | 143       | <10       | 94        | 0.023    |
| ZZ122623           |                          | 0.03      | <10       | <10       | 183       | <10       | 77        | 0.033    |
| ZZ122624           |                          | 0.02      | <10       | <10       | 32        | <10       | 146       | 0.014    |
| ZZ122625           |                          | 0.15      | <10       | <10       | 140       | <10       | 99        | 0.021    |
| ZZ122626           |                          | 0.07      | <10       | <10       | 147       | <10       | 82        | 0.011    |
| ZZ122627           |                          | 0.27      | <10       | <10       | 193       | <10       | 112       | 0.123    |
| ZZ122628           |                          | 0.18      | <10       | <10       | 181       | <10       | 126       | 0.049    |
| ZZ122629           |                          | 0.11      | <10       | <10       | 153       | <10       | 77        | 0.034    |
| ZZ122630           |                          | 0.04      | <10       | <10       | 61        | <10       | 52        | 0.017    |
| ZZ122631           |                          | 0.08      | <10       | <10       | 88        | <10       | 86        | 0.017    |
| ZZ122632           |                          | 0.06      | <10       | <10       | 138       | <10       | 96        | 0.048    |
| ZZ122633           |                          | 0.03      | <10       | <10       | 93        | <10       | 126       | 0.020    |
| ZZ122634           |                          | 0.04      | <10       | <10       | 137       | <10       | 96        | 0.031    |
| ZZ122635           |                          | 0.07      | <10       | <10       | 139       | <10       | 94        | 0.047    |
| ZZ122636           |                          | 0.01      | <10       | <10       | 243       | <10       | 76        | 0.021    |
| ZZ122637           |                          | 0.12      | <10       | <10       | 107       | <10       | 47        | 0.008    |
| ZZ122638           |                          | 0.08      | <10       | <10       | 201       | <10       | 100       | 0.033    |
| ZZ122639           |                          | 0.03      | <10       | <10       | 44        | <10       | 78        | 0.025    |
| ZZ122640           |                          | 0.02      | <10       | <10       | 121       | <10       | 154       | 0.039    |
| ZZ122641           |                          | 0.26      | <10       | <10       | 147       | <10       | 85        | 0.013    |
| ZZ122642           |                          | 0.16      | <10       | <10       | 156       | <10       | 79        | 0.014    |
| ZZ122643           |                          | 0.18      | <10       | <10       | 186       | <10       | 90        | 0.016    |
| ZZ122644           |                          | 0.18      | <10       | <10       | 124       | <10       | 72        | 0.016    |
| ZZ122645           |                          | 0.21      | <10       | <10       | 186       | <10       | 90        | 0.026    |
| ZZ122646           |                          | 0.42      | <10       | <10       | 208       | <10       | 115       | 0.014    |
| ZZ122647           |                          | 0.37      | <10       | <10       | 60        | <10       | 42        | 0.040    |
| ZZ122648           |                          | 0.46      | 10        | <10       | 36        | <10       | 11        | 0.018    |
| ZZ122649           |                          | <0.01     | <10       | <10       | 29        | <10       | 124       | 0.032    |
| ZZ122650           |                          | <0.01     | <10       | <10       | 18        | <10       | 121       | 0.123    |
| ZZ122651           |                          | <0.01     | <10       | <10       | 21        | <10       | 189       | 0.023    |
| ZZ122652           |                          | <0.01     | <10       | <10       | 120       | <10       | 142       | 0.135    |
| ZZ122653           |                          | <0.01     | <10       | <10       | 18        | <10       | 177       | 0.235    |



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Total # Appendix Pages: 1  
Finalized Date: 22- SEP- 2017  
Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192496**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au- AA24 ME- ICP41



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**Plus Appendix Pages**  
**Finalized Date: 22- SEP- 2017**  
**Account: MTT**

**CERTIFICATE WH17192499**

Project: Vault

This report is for 155 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- SEP- 2017.

The following have access to data associated with this certificate:

|                |  |  |
|----------------|--|--|
| JOAN MARIACHER |  |  |
|----------------|--|--|

| SAMPLE PREPARATION |                                 |
|--------------------|---------------------------------|
| ALS CODE           | DESCRIPTION                     |
| WEI- 21            | Received Sample Weight          |
| LOG- 22            | Sample login - Rcd w/o BarCode  |
| SCR- 41            | Screen to - 180um and save both |

| ANALYTICAL PROCEDURES |                                |            |
|-----------------------|--------------------------------|------------|
| ALS CODE              | DESCRIPTION                    | INSTRUMENT |
| Au- AA24              | Au 50g FA AA finish            | AAS        |
| ME- ICP41             | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17192499 |
|------------------------------------|

| Method Analyte Units LOR | WEI- 21 Recvd Wt. kg | ME- ICP41 Ag ppm | ME- ICP41 Al % | ME- ICP41 As ppm | ME- ICP41 B ppm | ME- ICP41 Ba ppm | ME- ICP41 Be ppm | ME- ICP41 Bi ppm | ME- ICP41 Ca % | ME- ICP41 Cd ppm | ME- ICP41 Co ppm | ME- ICP41 Cr ppm | ME- ICP41 Cu ppm | ME- ICP41 Fe % | ME- ICP41 Ga ppm |
|--------------------------|----------------------|------------------|----------------|------------------|-----------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|------------------|
| Sample Description       | 0.02                 | 0.2              | 0.01           | 2                | 10              | 10               | 0.5              | 2                | 0.01           | 0.5              | 1                | 1                | 1                | 0.01           | 10               |
| ZZ122750                 | 0.30                 | <0.2             | 3.05           | 8                | 270             | 220              | <0.5             | 3                | 1.61           | <0.5             | 35               | 76               | 111              | 5.32           | 10               |
| ZZ122751                 | 0.39                 | <0.2             | 2.74           | 8                | 80              | 210              | <0.5             | 2                | 1.31           | <0.5             | 33               | 74               | 169              | 5.11           | 10               |
| ZZ122752                 | 0.35                 | <0.2             | 3.32           | 10               | 20              | 160              | <0.5             | 2                | 1.09           | 0.6              | 51               | 101              | 147              | 6.25           | 10               |
| ZZ122753                 | 0.32                 | <0.2             | 2.76           | 20               | 150             | 150              | <0.5             | <2               | 1.05           | 0.7              | 47               | 71               | 217              | 6.13           | 10               |
| ZZ122754                 | 0.21                 | <0.2             | 2.09           | 11               | 10              | 110              | <0.5             | <2               | 1.11           | 0.5              | 26               | 56               | 201              | 4.53           | 10               |
| ZZ122755                 | 0.27                 | 0.2              | 2.48           | 47               | 10              | 130              | <0.5             | <2               | 0.82           | 0.5              | 39               | 71               | 241              | 5.67           | 10               |
| ZZ122756                 | 0.29                 | <0.2             | 2.95           | 13               | 10              | 130              | <0.5             | <2               | 1.67           | <0.5             | 33               | 102              | 244              | 5.83           | 10               |
| ZZ122757                 | 0.16                 | <0.2             | 2.45           | 36               | 10              | 140              | <0.5             | <2               | 1.07           | <0.5             | 34               | 77               | 165              | 5.47           | 10               |
| ZZ122758                 | 0.19                 | <0.2             | 2.72           | 47               | 10              | 160              | <0.5             | 3                | 1.14           | <0.5             | 34               | 60               | 249              | 5.74           | 10               |
| ZZ122759                 | 0.32                 | <0.2             | 3.28           | 26               | 40              | 130              | <0.5             | 2                | 1.40           | 0.7              | 42               | 82               | 314              | 6.76           | 10               |
| ZZ122760                 | 0.30                 | <0.2             | 2.69           | 34               | 20              | 80               | 0.5              | <2               | 2.47           | 0.7              | 173              | 47               | 299              | 6.30           | 10               |
| ZZ122761                 | 0.21                 | <0.2             | 1.97           | 16               | <10             | 150              | <0.5             | <2               | 0.91           | <0.5             | 25               | 46               | 90               | 4.23           | 10               |
| ZZ122762                 | 0.27                 | <0.2             | 2.65           | 17               | <10             | 120              | 0.5              | <2               | 0.71           | <0.5             | 29               | 70               | 169              | 5.47           | 10               |
| ZZ122763                 | 0.28                 | <0.2             | 2.70           | 5                | 30              | 210              | <0.5             | <2               | 1.28           | <0.5             | 34               | 60               | 296              | 5.74           | 10               |
| ZZ122764                 | 0.22                 | <0.2             | 1.88           | 10               | <10             | 130              | <0.5             | <2               | 1.19           | <0.5             | 25               | 51               | 72               | 3.75           | 10               |
| ZZ122765                 | 0.30                 | <0.2             | 3.40           | 6                | <10             | 70               | <0.5             | <2               | 1.47           | <0.5             | 38               | 88               | 158              | 5.84           | 10               |
| ZZ122766                 | 0.36                 | <0.2             | 2.51           | 5                | 10              | 210              | <0.5             | <2               | 1.10           | <0.5             | 34               | 49               | 228              | 5.88           | 10               |
| ZZ122767                 | 0.33                 | <0.2             | 2.83           | 3                | 120             | 190              | <0.5             | <2               | 1.31           | <0.5             | 34               | 73               | 128              | 5.21           | 10               |
| ZZ122768                 | 0.39                 | <0.2             | 3.33           | 5                | <10             | 40               | <0.5             | <2               | 1.34           | <0.5             | 37               | 71               | 169              | 5.52           | 10               |
| ZZ122769                 | 0.23                 | <0.2             | 1.92           | 18               | <10             | 90               | <0.5             | <2               | 0.61           | <0.5             | 19               | 47               | 68               | 3.83           | 10               |
| ZZ122771                 | 0.37                 | <0.2             | 2.89           | 4                | 10              | 50               | <0.5             | <2               | 1.44           | <0.5             | 29               | 65               | 147              | 5.30           | 10               |
| ZZ122772                 | 0.22                 | <0.2             | 3.06           | 6                | <10             | 100              | <0.5             | <2               | 1.35           | <0.5             | 30               | 71               | 209              | 5.07           | 10               |
| ZZ122773                 | 0.25                 | <0.2             | 1.50           | 10               | <10             | 110              | <0.5             | <2               | 1.14           | 0.5              | 15               | 40               | 74               | 3.10           | 10               |
| ZZ122774                 | 0.29                 | <0.2             | 2.17           | 16               | <10             | 110              | <0.5             | 2                | 0.86           | <0.5             | 33               | 49               | 115              | 4.32           | 10               |
| ZZ122775                 | 0.34                 | <0.2             | 3.20           | 6                | <10             | 50               | <0.5             | <2               | 1.85           | <0.5             | 31               | 58               | 128              | 4.97           | 10               |
| ZZ122776                 | 0.39                 | <0.2             | 3.69           | 5                | 20              | 90               | <0.5             | <2               | 1.27           | <0.5             | 40               | 97               | 97               | 6.51           | 10               |
| ZZ122777                 | 0.27                 | <0.2             | 3.08           | 10               | <10             | 80               | <0.5             | <2               | 1.14           | <0.5             | 33               | 70               | 123              | 5.43           | 10               |
| ZZ122778                 | 0.25                 | <0.2             | 2.71           | 14               | <10             | 90               | <0.5             | <2               | 0.94           | <0.5             | 29               | 60               | 80               | 5.15           | 10               |
| ZZ122779                 | 0.39                 | <0.2             | 2.99           | 8                | <10             | 70               | <0.5             | 3                | 0.94           | <0.5             | 26               | 68               | 90               | 5.50           | 10               |
| ZZ122780                 | 0.43                 | <0.2             | 3.16           | 6                | <10             | 40               | <0.5             | <2               | 1.83           | <0.5             | 26               | 107              | 192              | 4.75           | 10               |
| ZZ122781                 | 0.31                 | <0.2             | 2.62           | 13               | <10             | 80               | <0.5             | <2               | 1.14           | <0.5             | 23               | 51               | 128              | 4.34           | 10               |
| ZZ122782                 | 0.40                 | <0.2             | 2.38           | 8                | <10             | 70               | <0.5             | <2               | 1.39           | <0.5             | 22               | 43               | 104              | 3.97           | 10               |
| ZZ122783                 | 0.54                 | <0.2             | 3.73           | <2               | <10             | 20               | <0.5             | <2               | 1.86           | <0.5             | 36               | 62               | 172              | 5.59           | 10               |
| ZZ122784                 | 0.25                 | <0.2             | 3.17           | 13               | <10             | 110              | <0.5             | 3                | 1.05           | <0.5             | 27               | 81               | 90               | 5.17           | 10               |
| ZZ122785                 | 0.32                 | <0.2             | 2.70           | 9                | <10             | 80               | <0.5             | <2               | 1.26           | <0.5             | 25               | 54               | 104              | 4.71           | 10               |
| ZZ122786                 | 0.31                 | <0.2             | 2.98           | 2                | <10             | 20               | <0.5             | 4                | 1.73           | <0.5             | 27               | 70               | 304              | 4.26           | 10               |
| ZZ122787                 | 0.51                 | <0.2             | 3.79           | 2                | <10             | 10               | <0.5             | <2               | 2.80           | <0.5             | 34               | 97               | 312              | 4.75           | 10               |
| ZZ122788                 | 0.37                 | <0.2             | 3.78           | 6                | <10             | 40               | <0.5             | <2               | 1.31           | <0.5             | 37               | 140              | 229              | 5.68           | 10               |
| ZZ122789                 | 0.52                 | <0.2             | 2.94           | 6                | <10             | 60               | <0.5             | 2                | 1.39           | <0.5             | 30               | 61               | 153              | 5.02           | 10               |
| ZZ122790                 | 0.45                 | <0.2             | 4.25           | 4                | <10             | 40               | <0.5             | <2               | 2.55           | <0.5             | 41               | 57               | 265              | 6.52           | 10               |



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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |        |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|                    |                          | Hg ppm    | K %       | La ppm    | Mg %      | Mn ppm    | Mo ppm    | Na %      | Ni ppm    | P ppm     | Pb ppm    | S %       | Sb ppm    | Sc ppm    | Sr ppm    | Th ppm |
|                    |                          | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20     |
| ZZ122750           |                          | <1        | 0.05      | <10       | 2.70      | 1055      | 2         | 0.02      | 71        | 660       | 6         | 0.04      | <2        | 11        | 42        | <20    |
| ZZ122751           |                          | 1         | 0.07      | 10        | 2.27      | 1050      | 2         | 0.02      | 63        | 700       | 4         | 0.06      | <2        | 11        | 44        | <20    |
| ZZ122752           |                          | 1         | 0.06      | <10       | 2.91      | 1320      | 2         | 0.01      | 77        | 750       | 5         | 0.05      | <2        | 12        | 31        | <20    |
| ZZ122753           |                          | <1        | 0.06      | 10        | 2.27      | 1140      | 1         | 0.02      | 61        | 610       | 5         | 0.05      | <2        | 13        | 30        | <20    |
| ZZ122754           |                          | <1        | 0.05      | 10        | 1.61      | 858       | 1         | 0.02      | 45        | 720       | 7         | 0.10      | 2         | 8         | 39        | <20    |
| ZZ122755           |                          | 1         | 0.07      | 10        | 1.77      | 996       | 2         | 0.02      | 66        | 640       | 6         | 0.07      | <2        | 12        | 31        | <20    |
| ZZ122756           |                          | 1         | 0.05      | <10       | 2.71      | 929       | 1         | 0.01      | 63        | 600       | 5         | 0.12      | <2        | 13        | 31        | <20    |
| ZZ122757           |                          | 1         | 0.09      | 10        | 2.03      | 995       | 1         | 0.02      | 66        | 560       | 5         | 0.12      | <2        | 11        | 36        | <20    |
| ZZ122758           |                          | 1         | 0.05      | 10        | 2.27      | 822       | 1         | 0.02      | 62        | 620       | 4         | 0.08      | <2        | 10        | 29        | <20    |
| ZZ122759           |                          | 1         | 0.06      | <10       | 2.83      | 1040      | 1         | 0.01      | 72        | 610       | 4         | 0.07      | <2        | 14        | 32        | <20    |
| ZZ122760           |                          | <1        | 0.03      | 10        | 2.37      | 2060      | 2         | 0.02      | 68        | 530       | 5         | 0.07      | <2        | 13        | 38        | <20    |
| ZZ122761           |                          | <1        | 0.06      | 10        | 1.07      | 911       | 3         | 0.03      | 44        | 870       | 7         | 0.11      | <2        | 5         | 35        | <20    |
| ZZ122762           |                          | <1        | 0.05      | 10        | 1.69      | 959       | 1         | 0.02      | 59        | 630       | 4         | 0.06      | <2        | 10        | 29        | <20    |
| ZZ122763           |                          | <1        | 0.06      | <10       | 2.60      | 997       | 1         | 0.02      | 57        | 550       | <2        | 0.07      | <2        | 9         | 36        | <20    |
| ZZ122764           |                          | 1         | 0.05      | 10        | 1.20      | 734       | 1         | 0.02      | 43        | 1140      | 3         | 0.14      | <2        | 4         | 33        | <20    |
| ZZ122765           |                          | <1        | 0.04      | <10       | 2.78      | 943       | <1        | 0.02      | 69        | 590       | <2        | 0.07      | <2        | 11        | 32        | <20    |
| ZZ122766           |                          | <1        | 0.09      | 10        | 2.12      | 1090      | 1         | 0.02      | 49        | 780       | 2         | 0.05      | <2        | 12        | 33        | <20    |
| ZZ122767           |                          | 1         | 0.05      | <10       | 2.50      | 1000      | 1         | 0.02      | 60        | 510       | <2        | 0.03      | 2         | 11        | 29        | <20    |
| ZZ122768           |                          | <1        | 0.04      | <10       | 3.26      | 1065      | 1         | 0.02      | 73        | 530       | 2         | 0.02      | <2        | 13        | 44        | <20    |
| ZZ122769           |                          | 1         | 0.07      | 10        | 1.14      | 623       | 3         | 0.04      | 51        | 880       | 7         | 0.10      | <2        | 5         | 36        | <20    |
| ZZ122771           |                          | 1         | 0.04      | <10       | 2.51      | 856       | 1         | 0.02      | 59        | 610       | <2        | 0.03      | <2        | 11        | 28        | <20    |
| ZZ122772           |                          | <1        | 0.08      | 10        | 2.77      | 1060      | 1         | 0.03      | 68        | 540       | 2         | 0.07      | <2        | 12        | 37        | <20    |
| ZZ122773           |                          | <1        | 0.06      | 10        | 0.88      | 584       | 2         | 0.03      | 38        | 890       | 5         | 0.14      | <2        | 3         | 33        | <20    |
| ZZ122774           |                          | 1         | 0.05      | 10        | 1.22      | 873       | 2         | 0.03      | 51        | 620       | 5         | 0.10      | <2        | 6         | 34        | <20    |
| ZZ122775           |                          | 1         | 0.11      | 10        | 2.11      | 1120      | 1         | 0.03      | 71        | 720       | 2         | 0.08      | <2        | 10        | 126       | <20    |
| ZZ122776           |                          | <1        | 0.07      | 10        | 3.36      | 1130      | 1         | 0.02      | 69        | 800       | 3         | 0.07      | <2        | 17        | 67        | <20    |
| ZZ122777           |                          | <1        | 0.07      | 10        | 2.37      | 1210      | 2         | 0.02      | 68        | 850       | <2        | 0.08      | <2        | 13        | 74        | <20    |
| ZZ122778           |                          | <1        | 0.08      | 10        | 1.78      | 1430      | 2         | 0.02      | 65        | 1120      | 4         | 0.11      | <2        | 10        | 39        | <20    |
| ZZ122779           |                          | <1        | 0.09      | 10        | 2.18      | 1040      | 1         | 0.02      | 65        | 750       | 4         | 0.04      | <2        | 13        | 33        | <20    |
| ZZ122780           |                          | <1        | 0.04      | 10        | 2.21      | 1030      | 1         | 0.03      | 56        | 630       | <2        | 0.05      | <2        | 14        | 44        | <20    |
| ZZ122781           |                          | <1        | 0.05      | 10        | 1.56      | 808       | 2         | 0.03      | 55        | 740       | 4         | 0.08      | <2        | 10        | 37        | <20    |
| ZZ122782           |                          | <1        | 0.07      | 10        | 1.62      | 736       | 1         | 0.03      | 54        | 750       | 4         | 0.08      | <2        | 9         | 38        | <20    |
| ZZ122783           |                          | <1        | 0.02      | <10       | 3.14      | 1085      | <1        | 0.02      | 63        | 310       | <2        | 0.02      | <2        | 14        | 23        | <20    |
| ZZ122784           |                          | 1         | 0.12      | 10        | 1.72      | 808       | 2         | 0.02      | 62        | 640       | 4         | 0.07      | <2        | 9         | 38        | <20    |
| ZZ122785           |                          | <1        | 0.05      | 10        | 1.78      | 774       | 2         | 0.02      | 55        | 740       | 4         | 0.08      | <2        | 9         | 39        | <20    |
| ZZ122786           |                          | 1         | 0.05      | <10       | 2.37      | 676       | <1        | 0.01      | 58        | 430       | <2        | 0.03      | <2        | 13        | 29        | <20    |
| ZZ122787           |                          | 1         | 0.02      | <10       | 3.06      | 1305      | <1        | 0.01      | 88        | 470       | <2        | 0.02      | <2        | 15        | 43        | <20    |
| ZZ122788           |                          | 1         | 0.05      | 10        | 3.01      | 1020      | 1         | 0.02      | 91        | 580       | <2        | 0.06      | <2        | 14        | 45        | <20    |
| ZZ122789           |                          | <1        | 0.07      | 10        | 2.56      | 935       | 1         | 0.02      | 66        | 760       | <2        | 0.05      | <2        | 11        | 37        | <20    |
| ZZ122790           |                          | 1         | 0.03      | <10       | 3.71      | 1365      | <1        | 0.01      | 72        | 330       | <2        | 0.02      | <2        | 17        | 24        | <20    |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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 VANCOUVER BC V6B 1L8

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Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Ti %      | Ti ppm    | U ppm     | V ppm     | W ppm     | Zn ppm    | Au ppm   |
|                    |                          | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005    |
| ZZ122750           |                          | 0.19      | <10       | <10       | 144       | <10       | 80        | 0.032    |
| ZZ122751           |                          | 0.18      | <10       | <10       | 132       | <10       | 80        | 0.039    |
| ZZ122752           |                          | 0.24      | <10       | <10       | 157       | <10       | 80        | 0.028    |
| ZZ122753           |                          | 0.23      | <10       | <10       | 155       | <10       | 84        | 0.170    |
| ZZ122754           |                          | 0.17      | <10       | <10       | 112       | <10       | 77        | 0.010    |
| ZZ122755           |                          | 0.16      | <10       | <10       | 116       | <10       | 92        | 0.126    |
| ZZ122756           |                          | 0.21      | <10       | <10       | 153       | <10       | 82        | 0.106    |
| ZZ122757           |                          | 0.20      | <10       | <10       | 124       | <10       | 89        | 0.120    |
| ZZ122758           |                          | 0.27      | <10       | <10       | 135       | <10       | 89        | 0.148    |
| ZZ122759           |                          | 0.36      | <10       | <10       | 171       | <10       | 93        | 0.030    |
| ZZ122760           |                          | 0.26      | <10       | <10       | 141       | <10       | 89        | 0.074    |
| ZZ122761           |                          | 0.12      | 10        | <10       | 94        | <10       | 90        | 0.011    |
| ZZ122762           |                          | 0.18      | <10       | <10       | 131       | <10       | 84        | 0.013    |
| ZZ122763           |                          | 0.34      | <10       | <10       | 145       | <10       | 97        | 0.050    |
| ZZ122764           |                          | 0.09      | <10       | <10       | 87        | <10       | 62        | 0.006    |
| ZZ122765           |                          | 0.17      | <10       | <10       | 144       | <10       | 80        | 0.011    |
| ZZ122766           |                          | 0.23      | 10        | <10       | 157       | <10       | 83        | 0.022    |
| ZZ122767           |                          | 0.17      | <10       | <10       | 139       | <10       | 72        | 0.035    |
| ZZ122768           |                          | 0.21      | <10       | <10       | 140       | <10       | 79        | 0.007    |
| ZZ122769           |                          | 0.10      | <10       | <10       | 75        | <10       | 105       | 0.009    |
| ZZ122771           |                          | 0.32      | 10        | <10       | 145       | <10       | 78        | 0.075    |
| ZZ122772           |                          | 0.20      | <10       | <10       | 111       | <10       | 95        | 0.008    |
| ZZ122773           |                          | 0.09      | <10       | <10       | 66        | <10       | 83        | <0.005   |
| ZZ122774           |                          | 0.14      | 10        | <10       | 93        | <10       | 92        | 0.007    |
| ZZ122775           |                          | 0.21      | <10       | <10       | 111       | <10       | 82        | 0.007    |
| ZZ122776           |                          | 0.25      | <10       | <10       | 142       | <10       | 111       | 0.009    |
| ZZ122777           |                          | 0.18      | <10       | <10       | 115       | <10       | 96        | 0.008    |
| ZZ122778           |                          | 0.15      | <10       | <10       | 118       | <10       | 108       | 0.005    |
| ZZ122779           |                          | 0.24      | 10        | <10       | 140       | <10       | 88        | <0.005   |
| ZZ122780           |                          | 0.20      | <10       | <10       | 112       | <10       | 80        | 0.006    |
| ZZ122781           |                          | 0.20      | <10       | <10       | 111       | <10       | 87        | 0.008    |
| ZZ122782           |                          | 0.16      | 10        | <10       | 90        | <10       | 76        | 0.009    |
| ZZ122783           |                          | 0.34      | <10       | <10       | 131       | <10       | 81        | 0.007    |
| ZZ122784           |                          | 0.23      | <10       | <10       | 128       | <10       | 107       | <0.005   |
| ZZ122785           |                          | 0.22      | <10       | <10       | 114       | <10       | 91        | 0.005    |
| ZZ122786           |                          | 0.34      | 10        | <10       | 122       | <10       | 59        | 0.006    |
| ZZ122787           |                          | 0.26      | <10       | <10       | 123       | <10       | 81        | 0.014    |
| ZZ122788           |                          | 0.36      | <10       | <10       | 140       | <10       | 85        | 0.008    |
| ZZ122789           |                          | 0.25      | <10       | <10       | 115       | <10       | 88        | 0.010    |
| ZZ122790           |                          | 0.33      | 10        | <10       | 155       | <10       | 118       | <0.005   |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method  | WEI- 21   | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Analyte | Recvd Wt. | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        | Ga        |
| Units              |         | kg        | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         | ppm       |
| LOR                |         | 0.02      | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      | 10        |
| ZZ122791           |         | 0.43      | <0.2      | 4.63      | <2        | <10       | 50        | <0.5      | <2        | 2.76      | <0.5      | 41        | 140       | 367       | 7.95      | 10        |
| ZZ122792           |         | 0.47      | <0.2      | 2.49      | 7         | <10       | 40        | <0.5      | <2        | 5.76      | <0.5      | 38        | 66        | 256       | 6.26      | 10        |
| ZZ122793           |         | 0.24      | <0.2      | 2.78      | 10        | <10       | 90        | <0.5      | <2        | 0.89      | <0.5      | 28        | 84        | 210       | 5.08      | 10        |
| ZZ122794           |         | 0.42      | <0.2      | 1.53      | 13        | <10       | 10        | 0.5       | <2        | 4.15      | 1.4       | 15        | 39        | 92        | 4.37      | <10       |
| ZZ122795           |         | 0.21      | <0.2      | 1.99      | 20        | <10       | 130       | <0.5      | <2        | 0.64      | <0.5      | 20        | 48        | 49        | 4.24      | 10        |
| ZZ122796           |         | 0.18      | <0.2      | 2.05      | 15        | <10       | 110       | <0.5      | <2        | 0.66      | <0.5      | 23        | 54        | 120       | 4.14      | 10        |
| ZZ122797           |         | 0.27      | <0.2      | 1.46      | 15        | <10       | 80        | <0.5      | <2        | 0.45      | <0.5      | 13        | 34        | 51        | 2.75      | 10        |
| ZZ122798           |         | 0.26      | <0.2      | 2.17      | 14        | <10       | 120       | <0.5      | <2        | 0.81      | <0.5      | 24        | 64        | 132       | 4.31      | 10        |
| ZZ122799           |         | 0.27      | <0.2      | 0.88      | 8         | <10       | 90        | <0.5      | <2        | 1.17      | <0.5      | 11        | 23        | 37        | 2.40      | <10       |
| ZZ122800           |         | 0.35      | <0.2      | 1.41      | 14        | <10       | 110       | <0.5      | <2        | 0.76      | <0.5      | 17        | 46        | 42        | 3.30      | <10       |
| ZZ122801           |         | 0.26      | <0.2      | 0.78      | 6         | <10       | 110       | <0.5      | <2        | 0.80      | <0.5      | 8         | 21        | 30        | 1.71      | <10       |
| ZZ122802           |         | 0.23      | <0.2      | 0.96      | 8         | <10       | 110       | <0.5      | <2        | 1.02      | <0.5      | 11        | 27        | 38        | 2.15      | <10       |
| ZZ122803           |         | 0.27      | <0.2      | 1.28      | 18        | <10       | 90        | <0.5      | <2        | 1.23      | <0.5      | 18        | 39        | 71        | 3.05      | <10       |
| ZZ122804           |         | 0.24      | <0.2      | 0.27      | 5         | <10       | 20        | <0.5      | <2        | 0.20      | <0.5      | 3         | 6         | 8         | 0.90      | <10       |
| ZZ122805           |         | 0.36      | 0.2       | 1.89      | 17        | <10       | 100       | <0.5      | 2         | 0.51      | <0.5      | 18        | 59        | 64        | 3.92      | <10       |
| ZZ122806           |         | 0.26      | <0.2      | 0.89      | 10        | <10       | 100       | <0.5      | 2         | 0.72      | <0.5      | 12        | 21        | 60        | 2.89      | <10       |
| ZZ122807           |         | 0.42      | 0.2       | 1.52      | 34        | <10       | 100       | <0.5      | <2        | 0.75      | <0.5      | 25        | 49        | 87        | 3.86      | <10       |
| ZZ122808           |         | 0.27      | 0.2       | 1.47      | 18        | <10       | 100       | <0.5      | <2        | 0.87      | <0.5      | 19        | 48        | 51        | 3.30      | <10       |
| ZZ122809           |         | 0.15      | 0.3       | 0.78      | 10        | 10        | 80        | <0.5      | <2        | 2.41      | <0.5      | 10        | 26        | 48        | 1.75      | <10       |
| ZZ122810           |         | 0.17      | <0.2      | 1.23      | 17        | <10       | 90        | <0.5      | <2        | 1.84      | <0.5      | 16        | 41        | 72        | 2.59      | <10       |
| ZZ122811           |         | 0.25      | 0.2       | 1.79      | 18        | <10       | 120       | <0.5      | <2        | 0.77      | <0.5      | 20        | 48        | 51        | 3.58      | <10       |
| ZZ122812           |         | 0.20      | <0.2      | 0.95      | 16        | <10       | 60        | <0.5      | <2        | 1.50      | <0.5      | 15        | 25        | 47        | 2.65      | <10       |
| ZZ122813           |         | 0.25      | <0.2      | 0.97      | 13        | <10       | 80        | <0.5      | <2        | 0.74      | <0.5      | 13        | 22        | 45        | 2.54      | <10       |
| ZZ122814           |         | 0.23      | 0.2       | 0.97      | 10        | <10       | 100       | <0.5      | <2        | 1.58      | <0.5      | 12        | 22        | 38        | 2.18      | <10       |
| ZZ122815           |         | 0.25      | 0.4       | 0.83      | 31        | <10       | 50        | <0.5      | <2        | 2.35      | <0.5      | 16        | 17        | 57        | 2.92      | <10       |
| ZZ122816           |         | 0.38      | 0.5       | 1.13      | 53        | <10       | 40        | <0.5      | <2        | 0.89      | <0.5      | 25        | 20        | 85        | 5.30      | <10       |
| ZZ122817           |         | 0.33      | 0.5       | 2.03      | 90        | <10       | 70        | <0.5      | <2        | 1.43      | 0.6       | 29        | 91        | 115       | 4.71      | <10       |
| ZZ122818           |         | 0.26      | 0.5       | 1.45      | 50        | <10       | 70        | <0.5      | <2        | 0.82      | <0.5      | 30        | 37        | 95        | 5.32      | <10       |
| ZZ122819           |         | 0.31      | <0.2      | 0.98      | 14        | <10       | 70        | <0.5      | <2        | 0.38      | <0.5      | 13        | 29        | 23        | 2.39      | <10       |
| ZZ122820           |         | 0.38      | <0.2      | 1.77      | 23        | <10       | 100       | <0.5      | <2        | 0.67      | <0.5      | 22        | 58        | 45        | 4.36      | <10       |
| ZZ122821           |         | 0.29      | 0.2       | 1.40      | 18        | <10       | 160       | <0.5      | <2        | 1.25      | <0.5      | 24        | 42        | 77        | 3.67      | <10       |
| ZZ122822           |         | 0.35      | 0.2       | 1.64      | 21        | <10       | 120       | <0.5      | <2        | 0.83      | <0.5      | 20        | 46        | 47        | 3.86      | <10       |
| ZZ122823           |         | 0.25      | <0.2      | 1.24      | 8         | <10       | 90        | <0.5      | <2        | 0.77      | <0.5      | 14        | 38        | 32        | 2.75      | <10       |
| ZZ122824           |         | 0.20      | 0.2       | 1.06      | 13        | 10        | 140       | <0.5      | <2        | 1.71      | 0.6       | 14        | 25        | 56        | 2.10      | <10       |
| ZZ122826           |         | 0.40      | 0.2       | 1.13      | 11        | <10       | 80        | <0.5      | <2        | 1.45      | <0.5      | 14        | 41        | 41        | 3.05      | <10       |
| ZZ122827           |         | 0.24      | 0.4       | 1.68      | 27        | <10       | 70        | <0.5      | <2        | 1.98      | <0.5      | 24        | 71        | 90        | 3.81      | <10       |
| ZZ122828           |         | 0.27      | 0.3       | 2.09      | 43        | <10       | 60        | <0.5      | <2        | 1.42      | 0.5       | 38        | 109       | 111       | 5.45      | <10       |
| ZZ122829           |         | 0.38      | 0.6       | 2.86      | 35        | <10       | 90        | <0.5      | <2        | 2.29      | 1.0       | 60        | 232       | 198       | 7.23      | 10        |
| ZZ122830           |         | 0.27      | 0.6       | 2.37      | 30        | <10       | 80        | <0.5      | <2        | 1.65      | 0.6       | 36        | 108       | 149       | 5.62      | 10        |
| ZZ122831           |         | 0.28      | 0.8       | 2.23      | 47        | <10       | 80        | <0.5      | <2        | 1.21      | 0.8       | 33        | 98        | 156       | 5.65      | 10        |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method  | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |     |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
|                    | Analyte | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr        | Th  |
| Units              |         | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm |
| LOR                |         | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20  |
| ZZ122791           |         | <1        | 0.11      | <10       | 4.47      | 1075      | <1        | 0.01      | 86        | 580       | <2        | 0.01      | <2        | 14        | 32        | <20 |
| ZZ122792           |         | <1        | 0.10      | <10       | 2.04      | 1105      | 4         | 0.01      | 65        | 1300      | <2        | 0.01      | <2        | 17        | 89        | <20 |
| ZZ122793           |         | 1         | 0.08      | 10        | 2.38      | 1040      | 1         | 0.03      | 66        | 720       | 3         | 0.05      | <2        | 13        | 36        | <20 |
| ZZ122794           |         | <1        | 0.04      | 10        | 1.40      | 266       | 9         | 0.01      | 69        | 1170      | 3         | 0.07      | <2        | 4         | 39        | <20 |
| ZZ122795           |         | <1        | 0.07      | 10        | 1.00      | 748       | 3         | 0.02      | 45        | 850       | 7         | 0.10      | <2        | 3         | 35        | <20 |
| ZZ122796           |         | <1        | 0.07      | 10        | 1.16      | 848       | 2         | 0.03      | 52        | 740       | 7         | 0.11      | <2        | 7         | 31        | <20 |
| ZZ122797           |         | <1        | 0.05      | 10        | 0.76      | 406       | 2         | 0.03      | 32        | 540       | 6         | 0.08      | <2        | 3         | 25        | <20 |
| ZZ122798           |         | <1        | 0.07      | 10        | 1.56      | 834       | 1         | 0.02      | 49        | 700       | 5         | 0.08      | 2         | 8         | 32        | <20 |
| ZZ122799           |         | <1        | 0.04      | 10        | 0.39      | 585       | 1         | 0.01      | 19        | 820       | 5         | 0.09      | <2        | 2         | 47        | <20 |
| ZZ122800           |         | <1        | 0.05      | 10        | 0.83      | 812       | 1         | 0.01      | 34        | 780       | 6         | 0.07      | <2        | 4         | 34        | <20 |
| ZZ122801           |         | <1        | 0.04      | 10        | 0.39      | 227       | 1         | 0.01      | 17        | 720       | 3         | 0.10      | <2        | 2         | 40        | <20 |
| ZZ122802           |         | <1        | 0.05      | 10        | 0.59      | 376       | 1         | 0.02      | 26        | 640       | 4         | 0.10      | <2        | 2         | 47        | <20 |
| ZZ122803           |         | <1        | 0.05      | 10        | 0.86      | 803       | 1         | 0.02      | 41        | 750       | 6         | 0.09      | <2        | 5         | 47        | <20 |
| ZZ122804           |         | <1        | 0.03      | <10       | 0.11      | 173       | <1        | 0.03      | 4         | 270       | 2         | 0.02      | <2        | 1         | 13        | <20 |
| ZZ122805           |         | <1        | 0.06      | 10        | 1.16      | 576       | 1         | 0.01      | 46        | 500       | 8         | 0.04      | <2        | 6         | 26        | <20 |
| ZZ122806           |         | <1        | 0.04      | 10        | 0.37      | 610       | 1         | 0.02      | 21        | 900       | 8         | 0.09      | 2         | 2         | 35        | <20 |
| ZZ122807           |         | <1        | 0.05      | 10        | 0.90      | 1020      | 1         | 0.01      | 51        | 760       | 10        | 0.07      | <2        | 7         | 32        | <20 |
| ZZ122808           |         | <1        | 0.05      | 10        | 0.89      | 689       | 1         | 0.01      | 39        | 710       | 8         | 0.07      | <2        | 4         | 36        | <20 |
| ZZ122809           |         | 1         | 0.04      | 10        | 0.53      | 334       | 1         | 0.01      | 27        | 890       | 4         | 0.17      | <2        | 2         | 72        | <20 |
| ZZ122810           |         | <1        | 0.04      | 10        | 0.82      | 505       | 1         | 0.01      | 39        | 760       | 6         | 0.13      | <2        | 3         | 55        | <20 |
| ZZ122811           |         | 1         | 0.04      | 10        | 0.89      | 621       | 1         | 0.01      | 43        | 640       | 8         | 0.07      | <2        | 4         | 35        | <20 |
| ZZ122812           |         | 1         | 0.03      | 10        | 0.53      | 512       | 1         | 0.01      | 34        | 680       | 6         | 0.11      | <2        | 2         | 46        | <20 |
| ZZ122813           |         | 1         | 0.03      | 10        | 0.36      | 535       | 1         | 0.02      | 26        | 590       | 6         | 0.06      | 2         | 2         | 33        | <20 |
| ZZ122814           |         | 1         | 0.03      | 10        | 0.47      | 379       | 1         | 0.02      | 23        | 770       | 4         | 0.13      | <2        | 2         | 57        | <20 |
| ZZ122815           |         | 1         | 0.02      | <10       | 0.49      | 549       | 1         | 0.01      | 38        | 830       | 9         | 0.21      | <2        | 2         | 79        | <20 |
| ZZ122816           |         | 1         | 0.03      | <10       | 0.70      | 654       | 2         | 0.01      | 54        | 770       | 13        | 0.31      | <2        | 4         | 34        | <20 |
| ZZ122817           |         | 1         | 0.04      | 10        | 1.66      | 596       | 3         | 0.01      | 87        | 1000      | 13        | 0.10      | 2         | 7         | 49        | <20 |
| ZZ122818           |         | <1        | 0.05      | 10        | 0.83      | 676       | 2         | 0.01      | 77        | 670       | 12        | 0.10      | <2        | 6         | 33        | <20 |
| ZZ122819           |         | <1        | 0.04      | <10       | 0.54      | 452       | 1         | 0.02      | 20        | 500       | 4         | 0.05      | <2        | 2         | 21        | <20 |
| ZZ122820           |         | 1         | 0.05      | 10        | 1.10      | 720       | 2         | 0.01      | 42        | 640       | 8         | 0.06      | <2        | 5         | 30        | <20 |
| ZZ122821           |         | <1        | 0.04      | 10        | 0.79      | 2590      | 1         | 0.01      | 52        | 770       | 7         | 0.09      | <2        | 5         | 39        | <20 |
| ZZ122822           |         | <1        | 0.05      | 10        | 0.89      | 718       | 2         | 0.01      | 39        | 700       | 7         | 0.07      | <2        | 4         | 37        | <20 |
| ZZ122823           |         | <1        | 0.05      | 10        | 0.69      | 466       | 1         | 0.02      | 28        | 780       | 5         | 0.06      | 2         | 3         | 33        | <20 |
| ZZ122824           |         | <1        | 0.05      | 10        | 0.52      | 1520      | 2         | 0.02      | 33        | 900       | 5         | 0.15      | <2        | 2         | 66        | <20 |
| ZZ122826           |         | <1        | 0.03      | <10       | 0.78      | 652       | 1         | 0.02      | 30        | 850       | 5         | 0.11      | 2         | 3         | 52        | <20 |
| ZZ122827           |         | <1        | 0.04      | 10        | 1.34      | 647       | 2         | 0.01      | 67        | 850       | 6         | 0.13      | 3         | 5         | 58        | <20 |
| ZZ122828           |         | <1        | 0.04      | 10        | 1.90      | 1195      | 3         | 0.01      | 104       | 560       | 10        | 0.13      | <2        | 8         | 40        | <20 |
| ZZ122829           |         | <1        | 0.05      | <10       | 2.91      | 1155      | 5         | <0.01     | 227       | 710       | 5         | 0.28      | 3         | 10        | 58        | <20 |
| ZZ122830           |         | 1         | 0.05      | <10       | 2.09      | 1040      | 3         | 0.01      | 108       | 750       | 5         | 0.13      | 2         | 9         | 43        | <20 |
| ZZ122831           |         | <1        | 0.04      | 10        | 1.89      | 736       | 5         | 0.01      | 100       | 720       | 11        | 0.13      | 2         | 8         | 40        | <20 |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 22- SEP- 2017  
 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                          | Ti %      | Ti ppm    | U ppm     | V ppm     | W ppm     | Zn ppm    | Au ppm   |
|                    |                          | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005    |
| ZZ122791           |                          | 0.02      | <10       | <10       | 160       | <10       | 89        | 0.020    |
| ZZ122792           |                          | <0.01     | 10        | <10       | 91        | <10       | 71        | 0.005    |
| ZZ122793           |                          | 0.18      | <10       | <10       | 114       | <10       | 95        | 0.030    |
| ZZ122794           |                          | 0.08      | <10       | <10       | 33        | <10       | 118       | 0.007    |
| ZZ122795           |                          | 0.09      | <10       | <10       | 86        | <10       | 105       | 0.005    |
| ZZ122796           |                          | 0.11      | <10       | <10       | 87        | <10       | 100       | 0.009    |
| ZZ122797           |                          | 0.09      | <10       | <10       | 57        | <10       | 71        | 0.007    |
| ZZ122798           |                          | 0.14      | <10       | <10       | 97        | <10       | 80        | 0.009    |
| ZZ122799           |                          | 0.07      | <10       | <10       | 53        | <10       | 48        | 0.008    |
| ZZ122800           |                          | 0.07      | <10       | <10       | 66        | <10       | 84        | 0.026    |
| ZZ122801           |                          | 0.05      | <10       | <10       | 35        | <10       | 40        | <0.005   |
| ZZ122802           |                          | 0.07      | <10       | <10       | 46        | <10       | 68        | <0.005   |
| ZZ122803           |                          | 0.06      | <10       | <10       | 52        | <10       | 90        | 0.044    |
| ZZ122804           |                          | 0.04      | <10       | <10       | 19        | <10       | 22        | 0.005    |
| ZZ122805           |                          | 0.10      | <10       | <10       | 78        | <10       | 79        | 0.024    |
| ZZ122806           |                          | 0.08      | <10       | <10       | 72        | <10       | 53        | 0.005    |
| ZZ122807           |                          | 0.05      | <10       | <10       | 54        | <10       | 107       | 0.048    |
| ZZ122808           |                          | 0.06      | <10       | <10       | 62        | <10       | 73        | 0.013    |
| ZZ122809           |                          | 0.03      | <10       | <10       | 29        | <10       | 50        | 0.012    |
| ZZ122810           |                          | 0.04      | <10       | <10       | 41        | <10       | 62        | 0.019    |
| ZZ122811           |                          | 0.05      | <10       | <10       | 60        | <10       | 74        | 0.018    |
| ZZ122812           |                          | 0.04      | <10       | <10       | 36        | <10       | 60        | 0.012    |
| ZZ122813           |                          | 0.04      | <10       | <10       | 32        | <10       | 60        | 0.010    |
| ZZ122814           |                          | 0.04      | <10       | <10       | 37        | <10       | 49        | 0.007    |
| ZZ122815           |                          | 0.02      | <10       | <10       | 22        | <10       | 84        | 0.068    |
| ZZ122816           |                          | 0.02      | <10       | <10       | 28        | <10       | 144       | 0.135    |
| ZZ122817           |                          | 0.02      | <10       | <10       | 63        | <10       | 140       | 0.020    |
| ZZ122818           |                          | 0.04      | <10       | <10       | 46        | <10       | 189       | 0.068    |
| ZZ122819           |                          | 0.05      | <10       | <10       | 46        | <10       | 58        | 0.008    |
| ZZ122820           |                          | 0.07      | <10       | <10       | 69        | <10       | 90        | 0.021    |
| ZZ122821           |                          | 0.06      | <10       | <10       | 57        | <10       | 76        | 0.013    |
| ZZ122822           |                          | 0.06      | <10       | <10       | 59        | <10       | 98        | 0.035    |
| ZZ122823           |                          | 0.07      | <10       | <10       | 58        | <10       | 85        | 0.012    |
| ZZ122824           |                          | 0.04      | <10       | <10       | 32        | <10       | 90        | 0.007    |
| ZZ122826           |                          | 0.07      | <10       | <10       | 74        | <10       | 86        | 0.012    |
| ZZ122827           |                          | 0.04      | <10       | <10       | 60        | <10       | 87        | 0.011    |
| ZZ122828           |                          | 0.04      | <10       | <10       | 76        | <10       | 104       | 0.013    |
| ZZ122829           |                          | 0.03      | <10       | <10       | 99        | <10       | 107       | 0.011    |
| ZZ122830           |                          | 0.07      | <10       | <10       | 106       | <10       | 91        | 0.009    |
| ZZ122831           |                          | 0.05      | <10       | <10       | 87        | <10       | 158       | 0.017    |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 LIMITED  
 1016- 510 W HASTINGS ST  
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|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17192499 |
|-------------------------|------------|

| Sample Description | WEI- 21<br>Recvd Wt.<br>kg        | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% | ME- ICP41<br>Ga<br>ppm |
|--------------------|-----------------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|------------------------|
|                    | Method<br>Analyte<br>Units<br>LOR | 0.02                   | 0.2                  | 0.01                   | 2                     | 10                     | 10                     | 0.5                    | 2                    | 0.01                   | 0.5                    | 1                      | 1                      | 1                    | 0.01                   |
| ZZ122832           | 0.24                              | 1.2                    | 2.48                 | 20                     | <10                   | 80                     | <0.5                   | <2                     | 1.31                 | 1.2                    | 29                     | 160                    | 150                    | 5.34                 | 10                     |
| ZZ122833           | 0.27                              | 0.4                    | 1.81                 | 28                     | <10                   | 100                    | <0.5                   | <2                     | 0.93                 | 0.5                    | 19                     | 58                     | 61                     | 3.79                 | 10                     |
| ZZ122834           | 0.21                              | 0.3                    | 1.64                 | 51                     | <10                   | 90                     | <0.5                   | <2                     | 1.08                 | 0.6                    | 23                     | 51                     | 105                    | 4.29                 | <10                    |
| ZZ122835           | 0.31                              | 0.2                    | 2.20                 | 19                     | <10                   | 100                    | <0.5                   | <2                     | 1.17                 | <0.5                   | 26                     | 71                     | 118                    | 4.05                 | 10                     |
| ZZ122836           | 0.23                              | 0.2                    | 2.29                 | 34                     | <10                   | 50                     | <0.5                   | <2                     | 0.80                 | <0.5                   | 24                     | 62                     | 90                     | 4.81                 | 10                     |
| ZZ122837           | 0.37                              | <0.2                   | 3.71                 | 7                      | <10                   | 60                     | <0.5                   | <2                     | 1.28                 | <0.5                   | 39                     | 154                    | 150                    | 5.87                 | 10                     |
| ZZ122838           | 0.35                              | <0.2                   | 3.57                 | 20                     | <10                   | 60                     | <0.5                   | <2                     | 1.38                 | <0.5                   | 60                     | 148                    | 322                    | 6.70                 | 10                     |
| ZZ122839           | 0.23                              | 0.2                    | 2.51                 | 7                      | 10                    | 60                     | <0.5                   | <2                     | 1.74                 | <0.5                   | 28                     | 100                    | 213                    | 4.44                 | 10                     |
| ZZ122840           | 0.37                              | <0.2                   | 3.40                 | 6                      | <10                   | 80                     | <0.5                   | <2                     | 0.99                 | <0.5                   | 38                     | 133                    | 183                    | 6.03                 | 10                     |
| ZZ122841           | 0.44                              | <0.2                   | 3.13                 | 8                      | <10                   | 90                     | <0.5                   | <2                     | 1.12                 | <0.5                   | 36                     | 137                    | 209                    | 5.49                 | 10                     |
| ZZ122842           | 0.22                              | <0.2                   | 2.15                 | 10                     | <10                   | 70                     | <0.5                   | <2                     | 1.49                 | <0.5                   | 24                     | 83                     | 156                    | 3.75                 | 10                     |
| ZZ122843           | 0.12                              | 0.2                    | 1.85                 | 8                      | <10                   | 90                     | <0.5                   | <2                     | 2.17                 | <0.5                   | 22                     | 78                     | 130                    | 3.16                 | 10                     |
| ZZ122844           | 0.22                              | <0.2                   | 3.02                 | 9                      | <10                   | 90                     | <0.5                   | <2                     | 1.84                 | <0.5                   | 32                     | 148                    | 151                    | 5.01                 | 10                     |
| ZZ122845           | 0.16                              | 0.2                    | 1.16                 | 9                      | <10                   | 90                     | <0.5                   | <2                     | 2.00                 | <0.5                   | 16                     | 41                     | 76                     | 2.69                 | <10                    |
| ZZ122846           | 0.22                              | 0.8                    | 2.26                 | 40                     | <10                   | 80                     | <0.5                   | <2                     | 1.77                 | 1.3                    | 48                     | 179                    | 167                    | 5.05                 | 10                     |
| ZZ122847           | 0.22                              | 0.4                    | 1.59                 | 39                     | <10                   | 80                     | <0.5                   | <2                     | 1.80                 | <0.5                   | 29                     | 65                     | 74                     | 5.52                 | <10                    |
| ZZ122848           | 0.26                              | 0.2                    | 1.51                 | 28                     | <10                   | 70                     | <0.5                   | <2                     | 0.88                 | <0.5                   | 22                     | 49                     | 75                     | 4.17                 | <10                    |
| ZZ122849           | 0.28                              | 0.2                    | 2.61                 | 34                     | <10                   | 50                     | <0.5                   | <2                     | 1.00                 | <0.5                   | 35                     | 114                    | 125                    | 5.83                 | 10                     |
| ZZ122850           | 0.15                              | <0.2                   | 2.43                 | 70                     | <10                   | 70                     | <0.5                   | <2                     | 0.95                 | <0.5                   | 31                     | 113                    | 142                    | 5.06                 | 10                     |
| ZZ122851           | 0.22                              | 0.2                    | 2.25                 | 16                     | <10                   | 100                    | <0.5                   | <2                     | 1.04                 | <0.5                   | 25                     | 102                    | 111                    | 4.03                 | 10                     |
| ZZ122852           | 0.19                              | <0.2                   | 2.61                 | 23                     | <10                   | 80                     | <0.5                   | <2                     | 1.31                 | <0.5                   | 32                     | 124                    | 137                    | 4.82                 | 10                     |
| ZZ122853           | 0.22                              | <0.2                   | 1.62                 | 20                     | <10                   | 80                     | <0.5                   | <2                     | 1.06                 | <0.5                   | 17                     | 53                     | 76                     | 3.08                 | 10                     |
| ZZ122854           | 0.23                              | 0.2                    | 1.47                 | 17                     | <10                   | 80                     | <0.5                   | <2                     | 0.69                 | <0.5                   | 19                     | 39                     | 104                    | 2.98                 | <10                    |
| ZZ122855           | 0.22                              | 0.2                    | 3.28                 | 18                     | <10                   | 50                     | <0.5                   | <2                     | 1.17                 | <0.5                   | 37                     | 152                    | 329                    | 5.67                 | 10                     |
| ZZ122856           | 0.15                              | 0.2                    | 2.51                 | 16                     | 10                    | 60                     | <0.5                   | <2                     | 1.11                 | <0.5                   | 28                     | 77                     | 160                    | 4.62                 | 10                     |
| ZZ122857           | 0.19                              | 0.2                    | 2.67                 | 11                     | <10                   | 60                     | <0.5                   | <2                     | 1.14                 | <0.5                   | 32                     | 119                    | 266                    | 5.18                 | 10                     |
| ZZ122858           | 0.40                              | <0.2                   | 3.01                 | 6                      | <10                   | 60                     | <0.5                   | <2                     | 0.96                 | <0.5                   | 34                     | 156                    | 204                    | 5.48                 | 10                     |
| ZZ122859           | 0.39                              | <0.2                   | 3.13                 | 5                      | <10                   | 20                     | <0.5                   | <2                     | 0.99                 | <0.5                   | 34                     | 189                    | 199                    | 5.65                 | 10                     |
| ZZ122860           | 0.26                              | 0.2                    | 3.15                 | 7                      | <10                   | 110                    | <0.5                   | <2                     | 1.28                 | <0.5                   | 39                     | 182                    | 444                    | 5.57                 | 10                     |
| ZZ122861           | 0.26                              | <0.2                   | 2.99                 | 8                      | <10                   | 90                     | <0.5                   | <2                     | 1.34                 | <0.5                   | 34                     | 106                    | 264                    | 4.75                 | 10                     |
| ZZ122862           | 0.50                              | 1.3                    | 2.29                 | 43                     | <10                   | 40                     | <0.5                   | <2                     | 4.15                 | 0.9                    | 39                     | 206                    | 161                    | 5.32                 | 10                     |
| ZZ122863           | 0.25                              | 0.5                    | 2.89                 | 23                     | <10                   | 110                    | <0.5                   | <2                     | 1.51                 | 0.6                    | 34                     | 172                    | 198                    | 5.21                 | 10                     |
| ZZ122864           | 0.37                              | <0.2                   | 3.49                 | 16                     | <10                   | 60                     | <0.5                   | <2                     | 1.25                 | <0.5                   | 43                     | 188                    | 181                    | 6.40                 | 10                     |
| ZZ122865           | 0.29                              | 0.8                    | 1.71                 | 153                    | <10                   | 80                     | <0.5                   | <2                     | 1.65                 | 0.9                    | 37                     | 90                     | 195                    | 5.76                 | <10                    |
| ZZ122866           | 0.29                              | 0.7                    | 1.46                 | 47                     | <10                   | 200                    | <0.5                   | <2                     | 1.66                 | 0.9                    | 31                     | 69                     | 124                    | 5.25                 | <10                    |
| ZZ122867           | 0.31                              | 0.4                    | 1.58                 | 35                     | <10                   | 130                    | <0.5                   | <2                     | 1.58                 | 0.8                    | 25                     | 66                     | 83                     | 3.60                 | <10                    |
| ZZ122868           | 0.22                              | 0.2                    | 1.97                 | 15                     | <10                   | 120                    | <0.5                   | <2                     | 1.69                 | <0.5                   | 22                     | 58                     | 110                    | 3.53                 | 10                     |
| ZZ122869           | 0.20                              | <0.2                   | 3.16                 | 24                     | <10                   | 100                    | <0.5                   | <2                     | 1.23                 | <0.5                   | 35                     | 111                    | 186                    | 5.33                 | 10                     |
| ZZ122870           | 0.21                              | 0.2                    | 3.35                 | 18                     | <10                   | 90                     | <0.5                   | <2                     | 1.08                 | <0.5                   | 37                     | 121                    | 163                    | 5.62                 | 10                     |
| ZZ122871           | 0.30                              | <0.2                   | 2.54                 | 10                     | <10                   | 100                    | <0.5                   | <2                     | 0.97                 | <0.5                   | 32                     | 79                     | 122                    | 4.52                 | 10                     |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17192499 |
|-------------------------|------------|

| Sample Description | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Hg<br>ppm | K<br>%    | La<br>ppm | Mg<br>%   | Mn<br>ppm | Mo<br>ppm | Na<br>%   | Ni<br>ppm | P<br>ppm  | Pb<br>ppm | S<br>%    | Sb<br>ppm | Sc<br>ppm | Sr<br>ppm | Th<br>ppm |           |
|                    | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         | 20        |           |
| ZZ122832           | 1         | 0.05      | 10        | 2.45      | 744       | 6         | 0.01      | 104       | 890       | 4         | 0.12      | <2        | 9         | 45        | <20       |           |
| ZZ122833           | <1        | 0.05      | 10        | 1.06      | 621       | 3         | 0.01      | 43        | 1000      | 8         | 0.11      | 2         | 4         | 42        | <20       |           |
| ZZ122834           | <1        | 0.05      | 10        | 1.27      | 550       | 2         | 0.01      | 65        | 730       | 12        | 0.11      | <2        | 6         | 34        | <20       |           |
| ZZ122835           | 1         | 0.06      | 10        | 1.70      | 922       | 2         | 0.01      | 50        | 900       | 7         | 0.11      | <2        | 5         | 37        | <20       |           |
| ZZ122836           | <1        | 0.06      | 10        | 1.65      | 555       | 1         | <0.01     | 62        | 530       | 12        | 0.13      | <2        | 5         | 25        | <20       |           |
| ZZ122837           | <1        | 0.06      | <10       | 4.22      | 936       | <1        | <0.01     | 89        | 600       | <2        | 0.04      | <2        | 12        | 28        | <20       |           |
| ZZ122838           | 1         | 0.05      | <10       | 3.55      | 1545      | 1         | 0.01      | 96        | 640       | <2        | 0.08      | <2        | 11        | 25        | <20       |           |
| ZZ122839           | 1         | 0.06      | <10       | 2.52      | 840       | <1        | 0.01      | 56        | 610       | <2        | 0.10      | 2         | 9         | 32        | <20       |           |
| ZZ122840           | <1        | 0.08      | <10       | 3.59      | 1135      | <1        | 0.01      | 73        | 660       | <2        | 0.05      | <2        | 12        | 26        | <20       |           |
| ZZ122841           | <1        | 0.08      | <10       | 3.29      | 1260      | 1         | 0.01      | 75        | 780       | <2        | 0.06      | 2         | 9         | 29        | <20       |           |
| ZZ122842           | <1        | 0.05      | 10        | 2.02      | 779       | 1         | 0.01      | 58        | 770       | 2         | 0.11      | <2        | 5         | 35        | <20       |           |
| ZZ122843           | 1         | 0.06      | 10        | 1.73      | 695       | 1         | 0.01      | 52        | 920       | <2        | 0.14      | <2        | 5         | 43        | <20       |           |
| ZZ122844           | 1         | 0.05      | <10       | 3.14      | 983       | 1         | 0.01      | 78        | 640       | 2         | 0.13      | <2        | 8         | 35        | <20       |           |
| ZZ122845           | <1        | 0.04      | 10        | 0.79      | 452       | 1         | 0.01      | 35        | 710       | 3         | 0.15      | <2        | 2         | 41        | <20       |           |
| ZZ122846           | 1         | 0.03      | 10        | 2.06      | 990       | 7         | <0.01     | 221       | 720       | 7         | 0.16      | 3         | 8         | 35        | <20       |           |
| ZZ122847           | 1         | 0.03      | 10        | 1.14      | 1045      | 2         | <0.01     | 81        | 700       | 17        | 0.17      | 4         | 5         | 43        | <20       |           |
| ZZ122848           | <1        | 0.04      | 10        | 0.94      | 834       | 1         | 0.01      | 55        | 610       | 11        | 0.10      | <2        | 5         | 30        | <20       |           |
| ZZ122849           | <1        | 0.03      | 10        | 2.02      | 935       | 1         | 0.01      | 72        | 560       | 9         | 0.15      | <2        | 10        | 27        | <20       |           |
| ZZ122850           | <1        | 0.05      | <10       | 2.31      | 843       | 1         | 0.01      | 69        | 620       | 2         | 0.12      | <2        | 12        | 28        | <20       |           |
| ZZ122851           | <1        | 0.05      | 10        | 1.93      | 806       | 1         | 0.01      | 48        | 600       | 3         | 0.08      | <2        | 7         | 29        | <20       |           |
| ZZ122852           | 1         | 0.05      | <10       | 2.50      | 901       | 1         | 0.01      | 65        | 710       | 2         | 0.10      | <2        | 9         | 33        | <20       |           |
| ZZ122853           | <1        | 0.04      | 10        | 1.02      | 596       | 1         | 0.02      | 35        | 650       | 3         | 0.10      | 2         | 4         | 32        | <20       |           |
| ZZ122854           | <1        | 0.06      | 10        | 0.78      | 587       | 2         | 0.02      | 33        | 800       | 6         | 0.12      | 2         | 2         | 28        | <20       |           |
| ZZ122855           | 1         | 0.04      | <10       | 3.04      | 983       | 1         | 0.01      | 73        | 500       | <2        | 0.07      | <2        | 8         | 25        | <20       |           |
| ZZ122856           | <1        | 0.06      | 10        | 1.99      | 874       | 1         | 0.01      | 52        | 650       | 4         | 0.10      | <2        | 6         | 27        | <20       |           |
| ZZ122857           | 1         | 0.06      | <10       | 2.22      | 1005      | <1        | 0.01      | 61        | 550       | 4         | 0.08      | <2        | 7         | 30        | <20       |           |
| ZZ122858           | <1        | 0.06      | <10       | 3.09      | 906       | <1        | 0.01      | 70        | 410       | 3         | 0.05      | <2        | 7         | 23        | <20       |           |
| ZZ122859           | <1        | 0.06      | <10       | 3.31      | 868       | <1        | 0.01      | 76        | 360       | <2        | 0.03      | <2        | 8         | 22        | <20       |           |
| ZZ122860           | 1         | 0.06      | <10       | 3.34      | 1050      | <1        | 0.01      | 76        | 600       | 2         | 0.07      | <2        | 7         | 24        | <20       |           |
| ZZ122861           | <1        | 0.07      | <10       | 3.11      | 1055      | <1        | 0.01      | 67        | 610       | <2        | 0.07      | <2        | 8         | 32        | <20       |           |
| ZZ122862           | 1         | 0.04      | <10       | 2.51      | 676       | 2         | <0.01     | 188       | 1070      | 7         | 0.17      | 3         | 9         | 113       | <20       |           |
| ZZ122863           | 1         | 0.07      | <10       | 3.03      | 964       | 3         | 0.01      | 107       | 690       | 2         | 0.11      | <2        | 11        | 37        | <20       |           |
| ZZ122864           | <1        | 0.05      | <10       | 3.66      | 958       | 1         | <0.01     | 99        | 590       | 3         | 0.07      | <2        | 11        | 27        | <20       |           |
| ZZ122865           | 1         | 0.04      | <10       | 1.83      | 623       | 4         | <0.01     | 134       | 810       | 17        | 0.31      | 3         | 7         | 42        | <20       |           |
| ZZ122866           | <1        | 0.04      | <10       | 1.79      | 504       | 5         | <0.01     | 95        | 840       | 21        | 0.25      | 6         | 6         | 35        | <20       |           |
| ZZ122867           | <1        | 0.04      | 10        | 1.04      | 998       | 2         | 0.01      | 75        | 940       | 12        | 0.14      | <2        | 4         | 50        | <20       |           |
| ZZ122868           | <1        | 0.05      | 10        | 1.48      | 955       | 1         | 0.02      | 44        | 830       | 6         | 0.14      | 2         | 4         | 45        | <20       |           |
| ZZ122869           | <1        | 0.07      | 10        | 2.96      | 1065      | 1         | 0.01      | 71        | 670       | 2         | 0.08      | <2        | 10        | 31        | <20       |           |
| ZZ122870           | 1         | 0.06      | <10       | 3.29      | 1135      | 1         | 0.01      | 76        | 550       | 3         | 0.07      | <2        | 11        | 28        | <20       |           |
| ZZ122871           | 1         | 0.05      | 10        | 2.30      | 1075      | 2         | 0.01      | 57        | 680       | 5         | 0.07      | <2        | 7         | 30        | <20       |           |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: STRATEGIC METALS LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Au- AA24  |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Ti<br>%   | Ti<br>ppm | U<br>ppm  | V<br>ppm  | W<br>ppm  | Zn<br>ppm | Au<br>ppm |
|                    |                                   | 0.01      | 10        | 10        | 1         | 10        | 2         | 0.005     |
| ZZ122832           |                                   | 0.07      | <10       | <10       | 131       | <10       | 152       | 0.010     |
| ZZ122833           |                                   | 0.05      | <10       | <10       | 70        | <10       | 104       | 0.006     |
| ZZ122834           |                                   | 0.04      | <10       | <10       | 66        | <10       | 121       | 0.015     |
| ZZ122835           |                                   | 0.06      | <10       | <10       | 87        | <10       | 80        | 0.009     |
| ZZ122836           |                                   | 0.03      | <10       | <10       | 59        | <10       | 128       | 0.018     |
| ZZ122837           |                                   | 0.24      | <10       | <10       | 167       | <10       | 74        | 0.010     |
| ZZ122838           |                                   | 0.19      | <10       | <10       | 161       | <10       | 90        | 0.014     |
| ZZ122839           |                                   | 0.20      | <10       | <10       | 122       | <10       | 78        | 0.022     |
| ZZ122840           |                                   | 0.27      | <10       | <10       | 169       | <10       | 92        | 0.029     |
| ZZ122841           |                                   | 0.24      | <10       | <10       | 139       | <10       | 94        | 0.018     |
| ZZ122842           |                                   | 0.16      | <10       | <10       | 87        | <10       | 74        | 0.015     |
| ZZ122843           |                                   | 0.08      | <10       | <10       | 71        | <10       | 62        | 0.010     |
| ZZ122844           |                                   | 0.09      | <10       | <10       | 118       | <10       | 64        | 0.017     |
| ZZ122845           |                                   | 0.08      | <10       | <10       | 64        | <10       | 67        | <0.005    |
| ZZ122846           |                                   | 0.02      | <10       | <10       | 81        | <10       | 113       | 0.009     |
| ZZ122847           |                                   | 0.02      | <10       | <10       | 41        | <10       | 120       | 0.009     |
| ZZ122848           |                                   | 0.02      | <10       | <10       | 44        | <10       | 94        | 0.008     |
| ZZ122849           |                                   | 0.02      | <10       | <10       | 81        | <10       | 106       | 0.012     |
| ZZ122850           |                                   | 0.13      | <10       | <10       | 118       | <10       | 75        | 0.228     |
| ZZ122851           |                                   | 0.11      | <10       | <10       | 103       | <10       | 66        | 0.029     |
| ZZ122852           |                                   | 0.12      | <10       | <10       | 118       | <10       | 84        | 0.042     |
| ZZ122853           |                                   | 0.08      | <10       | <10       | 68        | <10       | 57        | 0.031     |
| ZZ122854           |                                   | 0.07      | <10       | <10       | 59        | <10       | 69        | 0.012     |
| ZZ122855           |                                   | 0.28      | <10       | <10       | 151       | <10       | 94        | 0.011     |
| ZZ122856           |                                   | 0.21      | <10       | <10       | 116       | <10       | 86        | 0.011     |
| ZZ122857           |                                   | 0.23      | <10       | <10       | 133       | <10       | 90        | 0.011     |
| ZZ122858           |                                   | 0.35      | <10       | <10       | 157       | <10       | 80        | 0.016     |
| ZZ122859           |                                   | 0.42      | <10       | <10       | 174       | <10       | 80        | 0.008     |
| ZZ122860           |                                   | 0.22      | <10       | <10       | 152       | <10       | 95        | 0.013     |
| ZZ122861           |                                   | 0.16      | <10       | <10       | 116       | <10       | 96        | 0.017     |
| ZZ122862           |                                   | 0.08      | <10       | <10       | 102       | <10       | 159       | 0.024     |
| ZZ122863           |                                   | 0.13      | <10       | <10       | 141       | <10       | 92        | 0.022     |
| ZZ122864           |                                   | 0.23      | <10       | <10       | 160       | <10       | 93        | 0.013     |
| ZZ122865           |                                   | 0.05      | <10       | <10       | 65        | <10       | 194       | 0.087     |
| ZZ122866           |                                   | 0.01      | <10       | <10       | 47        | <10       | 168       | 0.032     |
| ZZ122867           |                                   | 0.03      | <10       | <10       | 47        | <10       | 94        | 0.010     |
| ZZ122868           |                                   | 0.07      | <10       | <10       | 77        | <10       | 68        | 0.006     |
| ZZ122869           |                                   | 0.11      | <10       | <10       | 127       | <10       | 81        | 0.022     |
| ZZ122870           |                                   | 0.13      | <10       | <10       | 142       | <10       | 78        | 0.014     |
| ZZ122871           |                                   | 0.11      | <10       | <10       | 109       | <10       | 79        | 0.012     |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

| Sample Description | Method Analyte Units LOR | WEI- 21      | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Recvd Wt. kg | Ag ppm    | Al %      | As ppm    | B ppm     | Ba ppm    | Be ppm    | Bi ppm    | Ca %      | Cd ppm    | Co ppm    | Cr ppm    | Cu ppm    | Fe %      | Ga ppm    |
|                    |                          | 0.02         | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      | 10        |
| ZZ122872           |                          | 0.42         | <0.2      | 4.36      | 10        | <10       | 20        | <0.5      | <2        | 1.13      | <0.5      | 44        | 161       | 94        | 6.83      | 10        |
| ZZ122873           |                          | 0.42         | <0.2      | 3.98      | 8         | <10       | 90        | <0.5      | <2        | 1.30      | <0.5      | 42        | 159       | 168       | 6.75      | 10        |
| ZZ122874           |                          | 0.21         | 0.2       | 2.86      | 30        | 10        | 110       | <0.5      | <2        | 1.93      | 0.5       | 36        | 97        | 153       | 5.07      | 10        |
| ZZ122875           |                          | 0.34         | <0.2      | 3.17      | 13        | <10       | 90        | <0.5      | <2        | 1.46      | <0.5      | 37        | 126       | 263       | 5.71      | 10        |
| ZZ122876           |                          | 0.46         | <0.2      | 3.39      | 12        | <10       | 60        | <0.5      | <2        | 0.95      | <0.5      | 40        | 129       | 212       | 6.18      | 10        |
| ZZ122877           |                          | 0.30         | <0.2      | 2.49      | 32        | <10       | 120       | <0.5      | <2        | 0.85      | <0.5      | 31        | 108       | 179       | 5.09      | 10        |
| ZZ122878           |                          | 0.35         | <0.2      | 3.16      | 15        | 10        | 70        | <0.5      | <2        | 1.17      | <0.5      | 37        | 117       | 205       | 5.62      | 10        |
| ZZ122879           |                          | 0.31         | 0.2       | 2.81      | 8         | <10       | 90        | <0.5      | <2        | 1.11      | <0.5      | 33        | 109       | 216       | 4.90      | 10        |
| ZZ122880           |                          | 0.26         | <0.2      | 2.43      | 14        | <10       | 90        | <0.5      | <2        | 1.32      | <0.5      | 30        | 84        | 135       | 4.36      | 10        |
| ZZ122881           |                          | 0.36         | <0.2      | 2.98      | 3         | <10       | 50        | <0.5      | <2        | 1.74      | <0.5      | 38        | 63        | 183       | 5.57      | 10        |
| ZZ122882           |                          | 0.34         | <0.2      | 3.21      | 16        | <10       | 60        | <0.5      | <2        | 0.94      | <0.5      | 40        | 113       | 216       | 5.94      | 10        |
| ZZ122883           |                          | 0.38         | <0.2      | 2.88      | 7         | 10        | 100       | <0.5      | <2        | 1.24      | <0.5      | 35        | 120       | 243       | 4.89      | 10        |
| ZZ122884           |                          | 0.22         | <0.2      | 2.33      | 5         | <10       | 70        | <0.5      | <2        | 2.24      | <0.5      | 29        | 89        | 165       | 3.99      | 10        |
| ZZ122885           |                          | 0.38         | <0.2      | 5.04      | 48        | <10       | 10        | <0.5      | <2        | 1.38      | <0.5      | 63        | 324       | 227       | 8.51      | 10        |
| ZZ122886           |                          | 0.31         | <0.2      | 2.75      | 10        | <10       | 80        | <0.5      | <2        | 1.65      | <0.5      | 31        | 108       | 149       | 4.89      | 10        |
| ZZ122887           |                          | 0.18         | <0.2      | 1.79      | 8         | <10       | 70        | <0.5      | <2        | 1.62      | <0.5      | 23        | 78        | 147       | 3.26      | 10        |
| ZZ122888           |                          | 0.28         | <0.2      | 3.41      | 5         | <10       | 60        | <0.5      | <2        | 1.20      | <0.5      | 36        | 112       | 184       | 5.03      | 10        |
| ZZ122889           |                          | 0.23         | 0.2       | 3.03      | 11        | <10       | 50        | <0.5      | <2        | 1.19      | <0.5      | 35        | 116       | 219       | 5.44      | 10        |
| ZZ122890           |                          | 0.29         | <0.2      | 3.22      | 17        | <10       | 70        | <0.5      | <2        | 1.18      | <0.5      | 41        | 105       | 262       | 5.80      | 10        |
| ZZ122891           |                          | 0.34         | 0.2       | 3.32      | 37        | <10       | 70        | <0.5      | <2        | 1.21      | <0.5      | 49        | 147       | 283       | 5.89      | 10        |
| ZZ122892           |                          | 0.45         | 0.2       | 2.91      | 6         | <10       | 20        | <0.5      | <2        | 1.10      | <0.5      | 34        | 82        | 211       | 5.53      | 10        |
| ZZ122893           |                          | 0.31         | 0.7       | 3.03      | 23        | <10       | 80        | <0.5      | <2        | 1.35      | 1.6       | 105       | 79        | 670       | 8.89      | 10        |
| ZZ122894           |                          | 0.22         | 0.2       | 2.84      | 11        | <10       | 60        | <0.5      | <2        | 0.92      | <0.5      | 33        | 96        | 228       | 5.23      | 10        |
| ZZ122895           |                          | 0.31         | <0.2      | 3.68      | 6         | <10       | 50        | <0.5      | <2        | 0.98      | <0.5      | 45        | 191       | 212       | 6.29      | 10        |
| ZZ122896           |                          | 0.24         | 0.2       | 2.79      | 21        | <10       | 100       | <0.5      | <2        | 0.87      | <0.5      | 35        | 150       | 281       | 5.47      | 10        |
| ZZ122897           |                          | 0.28         | 0.2       | 3.16      | 16        | <10       | 130       | <0.5      | <2        | 1.08      | <0.5      | 38        | 194       | 170       | 5.92      | 10        |
| ZZ122898           |                          | 0.20         | <0.2      | 1.63      | 34        | <10       | 90        | <0.5      | <2        | 0.87      | <0.5      | 20        | 56        | 77        | 3.55      | <10       |
| ZZ122899           |                          | 0.28         | <0.2      | 2.77      | 17        | <10       | 90        | <0.5      | <2        | 0.78      | <0.5      | 32        | 143       | 124       | 4.96      | 10        |
| ZZ122900           |                          | 0.19         | 0.2       | 2.16      | 51        | <10       | 80        | <0.5      | <2        | 1.31      | <0.5      | 27        | 99        | 110       | 4.37      | 10        |
| ZZ122901           |                          | 0.29         | <0.2      | 2.63      | 86        | <10       | 90        | <0.5      | <2        | 0.96      | <0.5      | 33        | 116       | 165       | 5.71      | 10        |
| ZZ122902           |                          | 0.16         | 0.2       | 1.90      | 26        | <10       | 110       | <0.5      | <2        | 0.78      | <0.5      | 22        | 62        | 76        | 4.25      | 10        |
| ZZ122903           |                          | 0.42         | <0.2      | 2.74      | 14        | 10        | 80        | <0.5      | <2        | 0.97      | <0.5      | 32        | 88        | 125       | 5.26      | 10        |
| ZZ122904           |                          | 0.37         | 0.4       | 1.83      | 28        | <10       | 150       | <0.5      | <2        | 1.32      | <0.5      | 23        | 90        | 106       | 3.80      | 10        |
| ZZ122905           |                          | 0.34         | 0.7       | 1.63      | 27        | <10       | 50        | <0.5      | <2        | 1.53      | 0.9       | 28        | 121       | 99        | 3.52      | <10       |
| ZZ122906           |                          | 0.24         | 0.3       | 1.70      | 29        | <10       | 90        | <0.5      | <2        | 1.21      | 0.5       | 20        | 55        | 76        | 3.88      | <10       |



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17192499 |
|-------------------------|------------|

| Method Analyte Units LOR | ME- ICP41 Hg ppm | ME- ICP41 K % | ME- ICP41 La ppm | ME- ICP41 Mg % | ME- ICP41 Mn ppm | ME- ICP41 Mo ppm | ME- ICP41 Na % | ME- ICP41 Ni ppm | ME- ICP41 P ppm | ME- ICP41 Pb ppm | ME- ICP41 S % | ME- ICP41 Sb ppm | ME- ICP41 Sc ppm | ME- ICP41 Sr ppm | ME- ICP41 Th ppm |
|--------------------------|------------------|---------------|------------------|----------------|------------------|------------------|----------------|------------------|-----------------|------------------|---------------|------------------|------------------|------------------|------------------|
| Sample Description       | 1                | 0.01          | 10               | 0.01           | 5                | 1                | 0.01           | 1                | 10              | 2                | 0.01          | 2                | 1                | 1                | 20               |
| ZZ122872                 | <1               | 0.05          | <10              | 4.89           | 976              | 1                | <0.01          | 95               | 630             | <2               | 0.02          | <2               | 18               | 19               | <20              |
| ZZ122873                 | 1                | 0.06          | <10              | 4.37           | 1215             | <1               | 0.01           | 81               | 720             | <2               | 0.04          | <2               | 12               | 24               | <20              |
| ZZ122874                 | 1                | 0.09          | 10               | 2.96           | 943              | 1                | 0.01           | 67               | 760             | 3                | 0.11          | <2               | 10               | 38               | <20              |
| ZZ122875                 | <1               | 0.11          | <10              | 3.42           | 1060             | 1                | 0.01           | 67               | 610             | 2                | 0.05          | <2               | 9                | 28               | <20              |
| ZZ122876                 | <1               | 0.06          | 10               | 3.26           | 1105             | 1                | 0.01           | 82               | 660             | 3                | 0.06          | <2               | 10               | 25               | <20              |
| ZZ122877                 | <1               | 0.06          | 10               | 2.24           | 929              | 1                | 0.01           | 72               | 770             | 3                | 0.07          | <2               | 9                | 27               | <20              |
| ZZ122878                 | <1               | 0.04          | <10              | 2.96           | 1300             | 1                | 0.01           | 72               | 580             | <2               | 0.07          | <2               | 9                | 25               | <20              |
| ZZ122879                 | <1               | 0.05          | <10              | 2.79           | 1010             | 1                | 0.01           | 65               | 670             | 2                | 0.07          | <2               | 6                | 28               | <20              |
| ZZ122880                 | 1                | 0.05          | 10               | 2.05           | 829              | 1                | 0.01           | 55               | 700             | 3                | 0.09          | <2               | 6                | 32               | <20              |
| ZZ122881                 | 1                | 0.11          | <10              | 3.39           | 709              | <1               | <0.01          | 79               | 630             | <2               | 0.01          | 2                | 6                | 29               | <20              |
| ZZ122882                 | <1               | 0.05          | <10              | 3.09           | 1215             | <1               | 0.01           | 74               | 670             | <2               | 0.05          | <2               | 9                | 22               | <20              |
| ZZ122883                 | <1               | 0.08          | 10               | 3.03           | 1275             | 1                | 0.01           | 71               | 730             | 3                | 0.06          | <2               | 7                | 31               | <20              |
| ZZ122884                 | 1                | 0.04          | <10              | 2.26           | 996              | 1                | 0.01           | 55               | 830             | 2                | 0.11          | <2               | 5                | 28               | <20              |
| ZZ122885                 | 1                | 0.02          | <10              | 5.32           | 1210             | <1               | <0.01          | 131              | 580             | <2               | 0.07          | 2                | 36               | 20               | <20              |
| ZZ122886                 | <1               | 0.05          | <10              | 2.85           | 856              | 1                | 0.01           | 61               | 620             | <2               | 0.08          | <2               | 8                | 27               | <20              |
| ZZ122887                 | 1                | 0.06          | 10               | 1.62           | 901              | 1                | 0.01           | 48               | 790             | 3                | 0.12          | <2               | 4                | 32               | <20              |
| ZZ122888                 | 1                | 0.07          | <10              | 4.11           | 816              | <1               | <0.01          | 68               | 490             | <2               | 0.03          | <2               | 9                | 20               | <20              |
| ZZ122889                 | 1                | 0.05          | <10              | 2.93           | 1095             | 1                | 0.01           | 68               | 560             | <2               | 0.05          | <2               | 8                | 25               | <20              |
| ZZ122890                 | 1                | 0.06          | <10              | 2.90           | 1190             | 1                | 0.01           | 71               | 650             | 3                | 0.07          | <2               | 7                | 24               | <20              |
| ZZ122891                 | <1               | 0.05          | <10              | 3.06           | 1140             | 1                | 0.01           | 85               | 610             | 3                | 0.06          | 2                | 9                | 25               | <20              |
| ZZ122892                 | <1               | 0.06          | <10              | 3.12           | 1020             | <1               | <0.01          | 65               | 620             | <2               | 0.02          | 2                | 6                | 20               | <20              |
| ZZ122893                 | 1                | 0.08          | <10              | 2.52           | 1380             | 1                | 0.01           | 96               | 610             | 15               | 0.32          | <2               | 8                | 26               | <20              |
| ZZ122894                 | <1               | 0.04          | <10              | 2.64           | 988              | 1                | 0.01           | 59               | 550             | 2                | 0.08          | <2               | 6                | 23               | <20              |
| ZZ122895                 | <1               | 0.04          | <10              | 3.84           | 1200             | <1               | <0.01          | 89               | 450             | <2               | 0.05          | <2               | 9                | 17               | <20              |
| ZZ122896                 | <1               | 0.06          | 10               | 2.63           | 1135             | 1                | 0.01           | 83               | 610             | 2                | 0.08          | <2               | 8                | 27               | <20              |
| ZZ122897                 | <1               | 0.04          | <10              | 3.15           | 1075             | 1                | 0.01           | 95               | 530             | 2                | 0.09          | <2               | 9                | 25               | <20              |
| ZZ122898                 | 1                | 0.05          | 10               | 1.13           | 631              | 1                | 0.02           | 41               | 730             | 5                | 0.14          | <2               | 5                | 30               | <20              |
| ZZ122899                 | 1                | 0.06          | <10              | 2.89           | 1045             | <1               | 0.01           | 64               | 640             | <2               | 0.06          | <2               | 12               | 25               | <20              |
| ZZ122900                 | 1                | 0.04          | 10               | 1.97           | 816              | 1                | 0.01           | 61               | 770             | 2                | 0.13          | 3                | 10               | 30               | <20              |
| ZZ122901                 | 1                | 0.05          | <10              | 2.27           | 971              | <1               | 0.01           | 73               | 540             | <2               | 0.12          | 5                | 17               | 29               | <20              |
| ZZ122902                 | 1                | 0.05          | 10               | 1.13           | 747              | 2                | 0.01           | 43               | 920             | 5                | 0.11          | <2               | 7                | 33               | <20              |
| ZZ122903                 | <1               | 0.07          | 10               | 2.59           | 681              | 1                | 0.01           | 72               | 770             | 4                | 0.05          | 2                | 14               | 30               | <20              |
| ZZ122904                 | <1               | 0.05          | 10               | 1.49           | 790              | 2                | 0.01           | 78               | 860             | 5                | 0.09          | 2                | 7                | 37               | <20              |
| ZZ122905                 | <1               | 0.03          | 10               | 1.36           | 545              | 3                | 0.02           | 136              | 890             | 10               | 0.09          | 4                | 5                | 33               | <20              |
| ZZ122906                 | <1               | 0.05          | 10               | 1.08           | 636              | 2                | 0.01           | 61               | 740             | 7                | 0.13          | 2                | 5                | 31               | <20              |



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 Account: MTT

Project: Vault

|                                    |
|------------------------------------|
| CERTIFICATE OF ANALYSIS WH17192499 |
|------------------------------------|

| Sample Description | Method Analyte Units LOR | ME- ICP41 Ti % | ME- ICP41 TI ppm | ME- ICP41 U ppm | ME- ICP41 V ppm | ME- ICP41 W ppm | ME- ICP41 Zn ppm | Au- AA24 Au ppm |
|--------------------|--------------------------|----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|
|                    |                          | 0.01           | 10               | 10              | 1               | 10              | 2                | 0.005           |
| ZZ122872           |                          | 0.16           | <10              | <10             | 183             | <10             | 71               | 0.021           |
| ZZ122873           |                          | 0.18           | <10              | <10             | 191             | <10             | 78               | 0.036           |
| ZZ122874           |                          | 0.17           | <10              | <10             | 123             | <10             | 92               | 0.013           |
| ZZ122875           |                          | 0.29           | <10              | <10             | 159             | <10             | 97               | 0.012           |
| ZZ122876           |                          | 0.18           | <10              | <10             | 137             | <10             | 90               | 0.031           |
| ZZ122877           |                          | 0.15           | <10              | <10             | 114             | <10             | 100              | 0.036           |
| ZZ122878           |                          | 0.22           | <10              | <10             | 137             | <10             | 85               | 0.030           |
| ZZ122879           |                          | 0.29           | <10              | <10             | 124             | <10             | 84               | 0.015           |
| ZZ122880           |                          | 0.19           | <10              | <10             | 105             | <10             | 75               | 0.011           |
| ZZ122881           |                          | 0.05           | <10              | <10             | 101             | <10             | 90               | 0.010           |
| ZZ122882           |                          | 0.22           | <10              | <10             | 137             | <10             | 94               | 0.043           |
| ZZ122883           |                          | 0.22           | <10              | <10             | 115             | <10             | 89               | 0.029           |
| ZZ122884           |                          | 0.08           | <10              | <10             | 92              | <10             | 55               | 0.009           |
| ZZ122885           |                          | 0.10           | <10              | <10             | 265             | <10             | 84               | 0.012           |
| ZZ122886           |                          | 0.17           | <10              | <10             | 127             | <10             | 73               | 0.007           |
| ZZ122887           |                          | 0.11           | <10              | <10             | 71              | <10             | 68               | 0.017           |
| ZZ122888           |                          | 0.25           | <10              | <10             | 126             | <10             | 88               | 0.012           |
| ZZ122889           |                          | 0.23           | <10              | <10             | 134             | <10             | 87               | 0.011           |
| ZZ122890           |                          | 0.18           | <10              | <10             | 117             | <10             | 85               | 0.016           |
| ZZ122891           |                          | 0.23           | <10              | <10             | 138             | <10             | 92               | 0.047           |
| ZZ122892           |                          | 0.35           | <10              | <10             | 116             | <10             | 97               | 0.010           |
| ZZ122893           |                          | 0.21           | <10              | <10             | 141             | <10             | 292              | 0.043           |
| ZZ122894           |                          | 0.28           | <10              | <10             | 137             | <10             | 82               | 0.010           |
| ZZ122895           |                          | 0.36           | <10              | <10             | 180             | <10             | 82               | 0.014           |
| ZZ122896           |                          | 0.18           | <10              | <10             | 129             | <10             | 87               | 0.022           |
| ZZ122897           |                          | 0.19           | <10              | <10             | 142             | <10             | 77               | 0.026           |
| ZZ122898           |                          | 0.06           | <10              | <10             | 75              | <10             | 78               | 0.088           |
| ZZ122899           |                          | 0.15           | <10              | <10             | 137             | <10             | 67               | 0.047           |
| ZZ122900           |                          | 0.07           | <10              | <10             | 97              | <10             | 63               | 0.071           |
| ZZ122901           |                          | 0.06           | <10              | <10             | 122             | <10             | 68               | 0.161           |
| ZZ122902           |                          | 0.06           | <10              | <10             | 94              | <10             | 79               | 0.025           |
| ZZ122903           |                          | 0.15           | <10              | <10             | 119             | <10             | 88               | 0.028           |
| ZZ122904           |                          | 0.07           | <10              | <10             | 72              | <10             | 83               | 0.018           |
| ZZ122905           |                          | 0.02           | <10              | <10             | 49              | <10             | 130              | 0.009           |
| ZZ122906           |                          | 0.04           | <10              | <10             | 51              | <10             | 120              | 0.015           |
|                    |                          |                |                  |                 |                 |                 |                  |                 |



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Account: MTT

Project: Vault

**CERTIFICATE OF ANALYSIS WH17192499**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au- AA24 ME- ICP41



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**Plus Appendix Pages**  
**Finalized Date: 2- NOV- 2017**  
**Account: MTT**

**CERTIFICATE WH17218815**

Project: Vault

This report is for 3 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6- OCT- 2017.

The following have access to data associated with this certificate:

|              |                |             |
|--------------|----------------|-------------|
| ANDREW CARNE | JOAN MARIACHER | JACK MORTON |
|--------------|----------------|-------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI- 21            | Received Sample Weight         |
| LOG- 21            | Sample logging - ClientBarCode |
| CRU- 31            | Fine crushing - 70% <2mm       |
| CRU- QC            | Crushing QC Test               |
| PUL- QC            | Pulverizing QC Test            |
| SPL- 21            | Split sample - riffle splitter |
| PUL- 31            | Pulverize split to 85% < 75 um |

| ANALYTICAL PROCEDURES |                                |     |
|-----------------------|--------------------------------|-----|
| ALS CODE              | DESCRIPTION                    |     |
| ME- MS41              | Ultra Trace Aqua Regia ICP- MS |     |
| Au- AA24              | Au 50g FA AA finish            | AAS |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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|                         |            |
|-------------------------|------------|
| CERTIFICATE OF ANALYSIS | WH17218815 |
|-------------------------|------------|

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- MS41<br>Ag<br>ppm | ME- MS41<br>Al<br>% | ME- MS41<br>As<br>ppm | ME- MS41<br>Au<br>ppm | ME- MS41<br>B<br>ppm | ME- MS41<br>Ba<br>ppm | ME- MS41<br>Be<br>ppm | ME- MS41<br>Bi<br>ppm | ME- MS41<br>Ca<br>% | ME- MS41<br>Cd<br>ppm | ME- MS41<br>Ce<br>ppm | ME- MS41<br>Co<br>ppm | ME- MS41<br>Cr<br>ppm |
|--------------------|-----------------------------------|----------------------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.01                  | 0.01                | 0.1                   | 0.02                  | 10                   | 10                    | 0.05                  | 0.01                  | 0.01                | 0.01                  | 0.02                  | 0.1                   | 1                     |
| W420580            |                                   | 1.86                       | 0.146                 | 1.34                  | 0.49                | 152.0                 | 0.09                  | <10                  | 30                    | 0.14                  | 0.08                  | 5.78                | 0.10                  | 2.41                  | 27.7                  | 45                    |
| W420581            |                                   | 1.31                       | 0.047                 | 0.58                  | 0.39                | 78.1                  | 0.02                  | <10                  | 20                    | 0.11                  | 0.07                  | 5.34                | 0.11                  | 3.19                  | 35.8                  | 5                     |
| W420582            |                                   | 2.18                       | 8.27                  | 2.71                  | 0.06                | 6.6                   | 12.00                 | <10                  | 20                    | <0.05                 | 0.06                  | 0.14                | 0.06                  | 1.33                  | 1.4                   | 16                    |



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Project: Vault

**CERTIFICATE OF ANALYSIS WH17218815**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- MS41          | ME- MS41         | ME- MS41        | ME- MS41          | ME- MS41          | ME- MS41          | ME- MS41          | ME- MS41           | ME- MS41       | ME- MS41         | ME- MS41         | ME- MS41        | ME- MS41       | ME- MS41          |                 |
|--------------------|-----------------------------------|-------------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|
|                    |                                   | Cs<br>ppm<br>0.05 | Cu<br>ppm<br>0.2 | Fe<br>%<br>0.01 | Ga<br>ppm<br>0.05 | Ge<br>ppm<br>0.05 | Hf<br>ppm<br>0.02 | Hg<br>ppm<br>0.01 | In<br>ppm<br>0.005 | K<br>%<br>0.01 | La<br>ppm<br>0.2 | Li<br>ppm<br>0.1 | Mg<br>%<br>0.01 | Mn<br>ppm<br>5 | Mo<br>ppm<br>0.05 | Na<br>%<br>0.01 |
| W420580            |                                   | 0.07              | 88.0             | 6.04            | 1.10              | <0.05             | <0.02             | 0.03              | 0.042              | 0.08           | 1.0              | 3.6              | 4.47            | 1460           | 0.40              | 0.10            |
| W420581            |                                   | 0.09              | 134.0            | 6.66            | 1.07              | <0.05             | <0.02             | 0.01              | 0.051              | 0.07           | 1.4              | 2.9              | 3.00            | 1310           | 0.36              | 0.07            |
| W420582            |                                   | <0.05             | 202              | 0.64            | 0.19              | <0.05             | <0.02             | 0.01              | 0.020              | 0.03           | 0.7              | 0.3              | 0.04            | 77             | 0.16              | <0.01           |



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| <b>CERTIFICATE OF ANALYSIS WH17218815</b> |
|---|

| Sample Description | Method | Analyte | Units | LOR | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 |       |      |      |
|--------------------|--------|---------|-------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|------|------|
|                    |        |         |       |     | Nb       | Ni       | P        | Pb       | Rb       | Re       | S        | Sb       | Sc       | Se       | Sn       | Sr       | Ta    | Te   | Th   |
|                    |        |         |       |     | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | ppm   | ppm  | ppm  |
|                    |        |         |       |     | 0.05     | 0.2      | 10       | 0.2      | 0.1      | 0.001    | 0.01     | 0.05     | 0.1      | 0.2      | 0.2      | 0.2      | 0.01  | 0.01 | 0.2  |
| W420580            |        |         |       |     | <0.05    | 94.5     | 210      | 125.0    | 2.3      | 0.001    | 2.62     | 4.95     | 21.5     | 1.5      | <0.2     | 211      | <0.01 | 0.98 | <0.2 |
| W420581            |        |         |       |     | <0.05    | 42.1     | 320      | 49.4     | 2.0      | 0.001    | 1.33     | 0.58     | 22.3     | 0.7      | <0.2     | 170.0    | <0.01 | 0.12 | <0.2 |
| W420582            |        |         |       |     | <0.05    | 2.0      | 30       | 26.7     | 0.9      | <0.001   | 0.08     | 0.26     | 0.3      | <0.2     | <0.2     | 8.1      | <0.01 | 1.08 | <0.2 |



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|                                       |
|---------------------------------------|
| CERTIFICATE OF ANALYSIS    WH17218815 |
|---------------------------------------|

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- MS41<br>Ti<br>% | ME- MS41<br>Ti<br>ppm | ME- MS41<br>U<br>ppm | ME- MS41<br>V<br>ppm | ME- MS41<br>W<br>ppm | ME- MS41<br>Y<br>ppm | ME- MS41<br>Zn<br>ppm | ME- MS41<br>Zr<br>ppm |
|--------------------|-----------------------------------|---------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|
| W420580            |                                   | <0.005              | 0.02                  | 0.06                 | 23                   | 0.12                 | 5.21                 | 49                    | <0.5                  |
| W420581            |                                   | <0.005              | 0.02                  | 0.05                 | 23                   | 0.10                 | 5.41                 | 55                    | <0.5                  |
| W420582            |                                   | <0.005              | <0.02                 | <0.05                | 1                    | <0.05                | 0.32                 | 37                    | <0.5                  |



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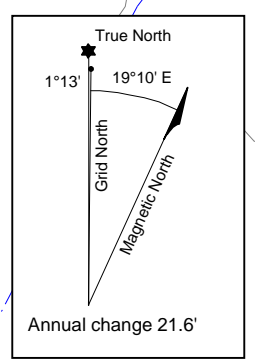
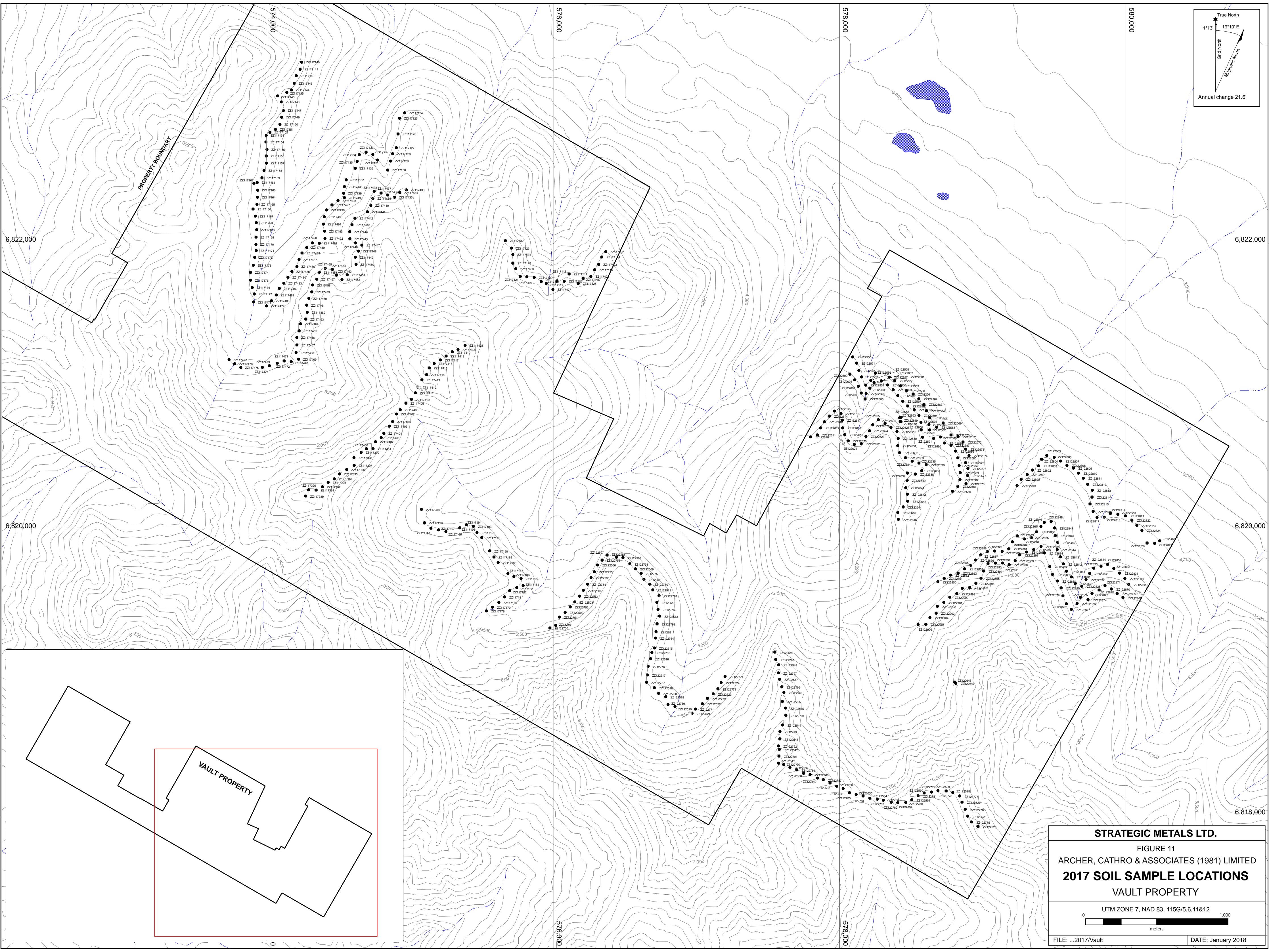
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| <b>CERTIFICATE OF ANALYSIS WH17218815</b> |
|---|

|  |                             |
|--|-----------------------------|
|  | <b>CERTIFICATE COMMENTS</b> |
|--|-----------------------------|

|                    |  |          |          |         |  |         |         |         |         |  |  |
|--------------------|--|----------|----------|---------|--|---------|---------|---------|---------|--|--|
|                    | <b>ANALYTICAL COMMENTS</b>   |          |          |         |  |         |         |         |         |  |  |
| Applies to Method: | Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).<br>ME- MS41  |          |          |         |  |         |         |         |         |  |  |
|                    | <b>LABORATORY ADDRESSES</b>  |          |          |         |  |         |         |         |         |  |  |
| Applies to Method: | Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.<br><table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL- 31</td> </tr> <tr> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> <td></td> <td></td> </tr> </table> | CRU- 31  | CRU- QC  | LOG- 21 |  | PUL- 31 | PUL- QC | SPL- 21 | WEI- 21 |  |  |
| CRU- 31            | CRU- QC  | LOG- 21  |          | PUL- 31 |  |         |         |         |         |  |  |
| PUL- QC            | SPL- 21  | WEI- 21  |          |         |  |         |         |         |         |  |  |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.<br><table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au- AA24</td> <td style="width: 33%;">ME- MS41</td> <td style="width: 33%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>   | Au- AA24 | ME- MS41 |         |  |         |         |         |         |  |  |
| Au- AA24           | ME- MS41   |          |          |         |  |         |         |         |         |  |  |



PROPERTY BOUNDARY

VAULT PROPERTY

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 FIGURE 11  
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**2017 SOIL SAMPLE LOCATIONS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0 1,000 meters

FILE: .../2017/Vault DATE: January 2018